

Slobodan P. Simonović

10 Pitcarnie Crescent
London, Ontario
N6G 4N4

Telephone: Personal (519) 200 - 2695
 Office (519) 661 - 4075
Faximile: Office (519) 661 - 3779
E-mail: simonovic@uwo.ca
URL: <http://www.slobodansimonovic.com>

RANK:

Professor

EDUCATION:

University of Belgrade, Yugoslavia
 B.Sc. Civil Engineering (Water Resources Engineering), 1974
 M.Sc. Interdisciplinary Studies (Water Resources Systems), 1977
University of California, Davis, California, USA
 Ph.D. Engineering (Water Resources Systems Engineering), 1981

EMPLOYMENT HISTORY - ACADEMIC

2022 – 2023	Adjunct Professor, Graduate Program in Disaster and Emergency Management, York University, Toronto, Ontario, Canada.
2020 - present	Honorary Professor, China Institute of Water Resources and Hydropower Research, Beijing, China.
2019 – present	Professor Emeritus, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada.
2019 – 2022	Adjunct Professor, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada.
2019 – 2021	Distinguished Visiting Professor, Graduate Program on Water Engineering, The University of Sao Paulo, Sao Carlos, Brazil.
2017	Visiting Professor, College of Hydrology and Water Resources, Hohai University, Nanjing, China.
2017 – present	Visiting Professor, Department of Civil Engineering, Shanghai Normal University, Shanghai, China.
2017 – present	Visiting Professor, Department of Civil Engineering, The University of Belgrade, Belgrade, Serbia.
2014 – 2015	Adjunct Professor, Graduate Program in Disaster and Emergency Management, York University, Toronto, Ontario, Canada.

2009 – 2012	Adjunct Professor, Department of Civil and Environmental Engineering, University of Waterloo, Waterloo, Ontario, Canada.
2005 – present	Director Engineering Studies, The Institute for Catastrophic Loss Reduction, The University of Western Ontario, London, Ontario, Canada.
2001	Center of Excellence Visiting Professor, Disaster Prevention Research Institute, Department of Civil Engineering, Kyoto University, Kyoto, Japan.
2000 – 2019	Professor, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada.
2000 – 2005	Engineering Research Chair, The Institute for Catastrophic Loss Reduction, The University of Western Ontario, London, Ontario, Canada.
2000 – 2003	Adjunct Professor, Department of Civil and Geological Engineering, University of Manitoba, Winnipeg, Canada
2000 – 2003	Adjunct Professor, Natural Resources Institute, University of Manitoba, Winnipeg, Canada
1996 - 2000	Director and Professor, Natural Resources Institute, The University of Manitoba, Winnipeg, Manitoba, Canada.
1996	Visiting Faculty, Water Engineering and Management Program, School of Civil Engineering, Asian Institute of Technology, Bangkok, Thailand.
1992 - 2000	Professor, Department of Civil and Geological Engineering, The University of Manitoba, Winnipeg, Manitoba, Canada.
1987 - 1992	Associate Professor, Department of Civil and Geological Engineering, The University of Manitoba, Winnipeg, Manitoba, Canada.
1987 - 1988	Lecturer, City Planning Department, The University of Manitoba, Winnipeg, Manitoba, Canada.
1986 - 1987	Visiting Associate Professor, Department of Civil Engineering, The University of Manitoba, Winnipeg, Manitoba, Canada.
1984 - 1986	Associate Professor, Department of Civil Engineering, The University of Novi Sad, Novi Sad, Yugoslavia.
1980 - 1981	Lecturer, Department of Civil Engineering, University of California, Davis, California, USA.
1979 - 1980	Research Assistant, Department of Civil Engineering, University of California, Davis, California, USA.

EMPLOYMENT HISTORY - NON-ACADEMIC

- 1997 – **present** Director, *Slobodan P. Simonovic Consulting Ltd.*, London, Canada.
- 1992 - 1993 Principal Partner, *Decision Partners*, Winnipeg, Canada.
- 1985 - 1986 Chief Engineer, *Energoprojekt Inc.*, Belgrade, Yugoslavia.
- 1982 - 1985 Deputy Director, Water Management Branch, Institute for the Development of Water Resources, Belgrade, Yugoslavia.
- 1976 - 1978 Senior Researcher, Institute for the Development of Water Resources, Belgrade, Yugoslavia.
- 1974 - 1976 Junior Researcher, Institute for the Development of Water Resources, Belgrade, Yugoslavia.

ACADEMIC AND PROFESSIONAL HONORS AND AWARDS:

1974	UNDP Scholarship, Los Angeles, California, USA
1985	Jaroslav Cerni Medal, Belgrade, Yugoslavia
1988, 1989	IIASA Visiting Scientist, Vienna, Austria
1990 – 1995	UNESCO International Hydrologic Program IV working group member, project M- 4.3, Study Experiences with modern water resources planning and management methods taking into account risk factors
1991 – 1995	Control Group Member, Application of Emerging Technologies Committee, American Society of Civil Engineers
1991 – 1995	Vice-president, International Association of Hydrological Sciences, International Commission on Water Resources Systems
1995 – 2001	President, International Commission on Water Resources Systems, International Association of Hydrological Sciences,
1993	ASCE Award for the most outstanding paper of 1992 published in the Journal of Professional Issues in Engineering Education and Practice
1994 – 1997	Chairman of the Canadian National Committee of International Water Resources Association (IWRA)
1994 – 1995	Graduate Students' Association Award for Excellence in Graduate Teaching, The University of Manitoba
1994 – 1995	Faculty of Engineering Award for Superior Academic Performance, The University of Manitoba
1996	Invitation Fellowship for Research in Japan, Japan Society for the Promotion of Science
1996 – 2000	UNESCO International Hydrologic Program V, working group member, Theme 4.3, Non-structural measures for water management problems
1996 – 2000	Chairman of the Canadian National Committee of UNESCO International Hydrologic Program (IHP)
2000 – 2003	Past Chairman of the Canadian National Committee of UNESCO International Hydrologic Program (IHP)
1997	IWRA Award for the best paper of 1996 published in the Water International Journal
1997 – 2000	Member, Red River Basin Task Force, International Joint Commission
1997	Outreach Award, The University of Manitoba
1998 – 2000	Member of the Board, International Water Resources Association (IWRA)
1998 – now	Member, Hydrotechnical Division Executive Committee, Canadian Society for Civil Engineering
1998	Recognition for valuable contribution towards sustainable development, Round Table for Sustainable Development, Province of Manitoba, Canada
1998 – 2000	Member, Core working group on urban sustainability indicators, Round Table on Environment and Economy, Province of Manitoba, Canada
1999 – 2000	Member, Expert Panel on Flood Mitigation, Environment Canada, Atmospheric Environment Service, Canada
2000	Nominated and Elected Fellow of International Water Resources Association
2000	Manitoba Network for Science & Technology (MindSet) Achievement Award, Winnipeg, March

2000 – 2004	Control Group Member, Application of Emerging Technologies Committee, American Society of Civil Engineers
2000 – 2002	Member, Task Committee on Mitigating Flood and Drought Disasters with Modern Technology, American Society of Civil Engineers
2000 – 2007	Member, Sectoral Commission on Natural and Social Sciences, Canadian Commission for UNESCO
2001	Japanese Society of Hydrology and Water Resources, the International Award for significant contribution to progress in the field of hydrology and water resources
2001	Member, Proposal evaluation committee, Program: Energy, Environment and Sustainable Development; Theme: Sustainable Management and Quality of Water, European Commission Research Directorate, Brussels
2002 – 2004	Vice President, Sectoral Commission on Natural and Social Sciences, Canadian Commission for UNESCO
2002 – 2004	Chair, Hydrotechnical Division, Canadian Society for Civil Engineering
2002 – 2007	UNESCO International Hydrologic Program VI, working group member, Theme 2.4, Approaches for integrated river basin management
2003	Showcase Award of Excellence, International Project Category, Consulting Engineers of Alberta – for ‘Flood Management Optimization for the Sihu Basin in China’
2003	Canadian Consulting Engineering Award of Excellence, Category: International – for ‘SiHu Basin Flood Management’
2003 – 2009	Member, Water Resources Management Section, International Association of Hydraulic Research (IAHR)
2005	Canadian Society for Civil Engineering Camille A. Dagenais Award for outstanding contribution to the development and practice of hydrotechnical engineering in Canada
2005	Member, The Committee for Review of the Lake Ontario-St. Lawrence River Studies, The National Academy of Sciences, Washington, USA
2005	Nominated and Elected Fellow of the American Society of Civil Engineers
2005 – 2006	Expert reviewer – Freshwater Resources and Their Management, Intergovernmental Panel on Climate Change, Working Group II Fourth Assessment, WMO and UNEP
2006	Member, Lakes and Rivers Improvement Act Advisory Panel, Ministry of Natural Resources, Ontario
2006 – 2009	Member, International Advisory Board, L.A.R.A., Land network laboratory for waters of Emilia Romagna Region, Universita Degli Studi Di Ferrara, Italy
2006 – 2016	Canadian National Representative, International Commission on Water Resources Systems (ICWRS), International Association of Hydrological Science (IAHS)
2008	Nominated and Elected Fellow of the Canadian Society for Civil Engineering
2008 – now	Member, Task Group on Disaster Risk Management, World Federation of Engineering Organizations
2008 – now	Chairman, Ad hoc Committee of the International Conference on Flood Management
2009 – now	Member, Technical Committee on Modelling and Control of Environmental Systems, International Federation of Automatic Control (IFAC)

2009	Nominated and Recognized as the Diplomat, Water Resources Engineer by the American Academy of Water Resources Engineers
2009 – 2011	Member, Advisory Committee on the Environment, City of London, Ontario
2011 – now	Honorary member of the Milutin Milankovic Society, Belgrade, Serbia
2012 – 2022	Affiliate Member, The Wind Engineering, Energy and Environment (WindEEE) Research Institute, Faculty of Engineering, The University of Western Ontario.
2013	American Society of Civil Engineers Ven Te Chow Award for lifetime achievements in the field of hydrologic engineering and significant contributions in research, education and practice.
2013	Fellow of the Canadian Academy of Engineering.
2014	Research Scientist, Academia Sinica, Taipei, Taiwan
2017	European Water Resources Association (EWRA) Award for outstanding contribution to the field of water resources management.
2018	China Institute for Water Resources and Hydropower Research (IWHR) Award for Contribution to International Collaboration.
2019	Distinguished Scholar, Brazilian School of Advanced Studies of Water & Society Under Change, University of São Paulo (PPGSHS), Federal University of Pernambuco (UFPE) and Federal University of Campina Grande (UFCG), CAPES (Coordination for the Improvement of Higher Education Personnel), Brazil.
2019 – 2024	Affiliate Member, Western Water Research Centre, Faculty of Engineering, The University of Western Ontario.
2020 – now	Member, External Advisory Board, H2020 project "PathoCERT: Pathogen Contamination Emergency Response Technologies", KIOS Research and Innovation Center of Excellence, University of Cyprus, Nicosia, Cyprus.
2020	Best publication award by JSIDRE (Japanese Society of Irrigation, Drainage and Rural Engineering) for the book <i>Climate Change Impacts on Basin Agro-ecosystems</i> , Elsevier 2019, ISBN: 978-3-030-01036-2.
2020	Fellow of the Royal Society of Canada
2020	ASCE Life Member, American Society of Civil Engineers
2020	Gold Medal - Milutin Milankovic Society, Belgrade, Serbia. In celebration of one hundred years of Milankovic's theory of climate change.
2020	Honorary Professor, China Institute of Water Resources and Hydropower Research, Beijing, China.
2021	Named to the Reuters Hot List of the world's top 1,000 climate scientists, https://www.reuters.com/investigates/special-report/climate-change-scientists-list/
2021	Nominated and elected Foreign Fellow of the Serbian Academy of Sciences and Arts (SANU)

TEACHING

Civil and Environmental Engineering Department, The University of Western Ontario, London, Canada

Undergraduate Program:

- Water Resources Management CEE3361
- Systems Approach for Civil and Environmental Engineering CEE4418
- Natural Disasters: Mitigation, Modeling and Assessment CEE4461 (not offered anymore)
- Civil Engineering Systems CEE2218 (not offered anymore)

Graduate Program:

- Advanced Systems Analysis for Civil Engineering CEE9566
- Water Resources Systems Management CEE9564

Civil Engineering Department, The University of Manitoba, Winnipeg, Canada

Undergraduate Program:

- Civil Engineering Systems
- Water Resources Development
- Technology and Society (group coordinator),
- Environmental Systems Modelling (with D. Burn and R. Schwarz)
- River Engineering

Graduate Program:

- Water Resources Systems
- Intelligent Decision Support in Water Resources
- Advanced Civil Engineering Systems
- Use of neural networks for hydrological forecasting

Natural Resources Institute, The University of Manitoba, Winnipeg, Canada

Graduate Program

- Systems view of resources management
- Resource and environmental management tools

Department of City Planning, The University of Manitoba, Winnipeg, Canada

Graduate Program:

- Planning Methods and Techniques I
- Planning Methods and Techniques II

School of Civil Engineering, Asian Institute of Technology, Bangkok, Thailand

Graduate Program:

- Water Resources Systems Management

Civil Engineering Department, University of California, Davis, USA

Graduate Program:

- Groundwater Systems Analysis

Civil Engineering Department, University of Novi Sad, Subotica, Yugoslavia

Undergraduate Program:

- Hydrology

UNESCO Short Courses for Water Resources Engineers

Three months program:

- Hydropower Development (Belgrade, Yugoslavia)
- Water Resources Management (Belgrade, Yugoslavia)
- Expert Systems for Water Resources Engineers (Belgrade, Yugoslavia)

One week program:

- Expert Systems for Water Resources Management (Dubrovnik, Yugoslavia)

Short Courses for Water Resources Engineers

- Systems analysis for planning hydro-power production (Winnipeg, Canada)
- Expert systems for water resources engineers (Vienna, Austria)
- Expert systems for water resources management and flood risk control (Bologna, Italy)
- Water resources multi-objective analysis (Rabat, Morocco; Milan, Italy)
- Expert systems for water resources management (Sao Paulo, Brazil; Cairo, Egypt)
- Systems approach to sustainable water management (Cairo, Egypt)
- Introduction to systems analysis (Winnipeg, Manitoba)
- Creating web pages with HTML (Cairo, Egypt)
- A systems approach to creative water resources engineering (Sao Paulo, Brazil)
- Achieving sustainability in water resources systems (Panama City, Panama)
- System dynamics: An introduction (Tokyo, Japan)
- System dynamics: An introduction (Belgrade, Serbia – in Serbian)
- System dynamics: An introduction (Sao Paulo, Brazil)
- Climate change and water resources management (Belgrade, Serbia – in Serbian)
- Climate change and water resources management (Vancouver, Canada)
- Systems approach to management of disasters (Tokyo, Japan)
- System dynamics modeling for water resources management (Winnipeg, Canada)
- Systems dynamics modeling for water resources engineering (Beijing, China)
- Systems approach to management of disasters (Taipei, Taiwan)
- Systems dynamics modelling for management of disasters (Belgrade, Serbia – in Serbian)
- Systems dynamics modelling for water resources engineering (Nanjing, China)
- Climate change and its implications to water resources management (Vancouver, Canada)

RESEARCH TRAINING

	Master's	Doctoral	Postdoctoral (+ Visiting)
Number of degrees conferred	45	24	21 + 12
Number of candidates currently supervised			1 + 0

Completed – Visiting Scholars

1. **Dr. K.W. Nandalal, Visiting Professor (2003)** *Senior Lecturer, University of Peradeniya, Sri Lanka.*
2. **Dr. Andre Schardong (2009, 2010, 2011, 2012)** *Project Engineer, Golder Associates Mississauga*
3. **Dr. K. Neuwirth (2013)** *Professor, Department of Geography, University of Munich (LMU), Munich, Germany*
4. **Dr. Zhiyong Yang (2014)** *Senior Scientist, China Institute of Water Resources and Hydropower Research (IWHR), Beijing, China*
5. **Mr. Nikhil Bhatia (2015)** *Graduate student, Texas A&M University*
6. **Mr. Benyou Jia (2015)** *Research Scientist, Nanjing Hydraulic Research Institute, Nanjing, China*
7. **Ms. Haiyan Jiang (2016)** *PhD Candidate, Hohai University, Nanjing, China*
8. **Ms. Xuemei Li (2017)** *Lecturer, Faculty of Geomatics, Lanzhou Jiaotong University, Lanzhou, China*
9. **Ms. Faye Xing (2018, 2019),** *PhD candidate, Hohai University, Nanjing, China.*
10. **Mr. C. Zhang (2019),** *Professor, Shanghai University of Finance and Economics, Shanghai, China.*
11. **Mrs. J. Kong (2019),** *Professor, Shanghai Normal University, Shanghai, China.*
12. **Ms. D. Feitoza Silva (2020),** *PhD Candidate, Institute for Hydraulic Research, Federal University of Rio Grande, Porto Alegre, Brazil*

Completed – Postdoctoral Fellows

1. **Mr. L. Li (2001)** *Professor, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, Urumqi, Xinjiang, China*
2. **Mrs. Nirupama (2002)** *Professor, York University, Toronto*
3. **Mr. V. Rajasekaram (2003)** *Senior Engineer, Westhoff Engineering Resources, Calgary*
4. **Mr. R. Verma (2004)** *Professor, Birla Institute of Technology, Ranchi, Jharkhand, India*
5. **Mr. J. Cunderlik (2004)** *Director of Water Resources Engineering, Mississippi Valley Conservation Authority, Ottawa*
6. **Mr. S. Karmakar (2007)** *Professor, Indian Institute of Technology, Bombay, India.*
7. **Mr. V. Arunachalam (2008)** *Professor, BITS-Pilani, Hyderabad Campus, Shameerpet Mandal, India*

8. **Mr. R. R. Shrestha (2008)** *Senior Scientist, Water and Climate Impact Research Center, Environment Canada, Victoria*
9. **Mr. E. G.R. Davies (2009)** *Professor, Department of Civil Engineering, University of Alberta, Edmonton.*
10. **Mr. H-I. Eum (2009)** *Research Scientist, Government of Alberta, Calgary.*
11. **Mr. S. Das (2012)** *Research Professor, Nanjing University of Information Science and Technology, Nanjing, China*
12. **Mr. A. Schardong (2013-2014)** *Project Engineer, Portugal*
13. **Mr. R. Srivastav (2013-2014)** *Professor, VIT University, Chennai, India*
14. **Mr. A. Schardong (2016)** *Project Engineer, Portugal*
15. **Ms. J. Kong (2016)** *Professor, Shanghai Normal University, Shanghai, China*
16. **Mr. R. Arunkumar (2017)** *Professor, National Institute of Technology Calicut, Kozhikode, Kerala, India*
17. **Mr. A. Gaur (2017)** *Research Scientist, National Research Council, Ottawa*
18. **Mr. M. Stojkovic (2018-2019)** *Senior Research Specialist, Institute for Water Resources Management "Jaroslav Cerni", Belgrade, Serbia*
19. **Mr. A. Schardong (2019)** *Hydrotechnical Engineer, Portugal*
20. **Mrs. Haiyan Jiang (2020, 2021)** *Assistant Professor, Nanjing Technical University, Nanjing, China*
21. **Mr. M. Mohanty (2020, 2021)** *Assistant Professor, Department of Water Resources Development and Management, IIT Roorkee, Roorkee, India*
- 22.

Completed – Doctoral Students

1. **Mr. D. Savic, Ph.D. (1990)** *CEO, KWR, The Netherlands*
2. **Mr. R. Srinivasan, Ph.D. (1995)** *, Principal, Boomi Environmental LLC, New York, USA*
3. **Mr. M. Bender, Ph.D. (1996)** *Principal, Western Surface Water Operations, Matrix Solutions Inc., Environment & Engineering, Calgary*
4. **Mr. J.W. Davidson, Ph.D. (1998)** *Principal, Strategic Water Modeling Solutions, Calgary*
5. **Mr. R. Teegavarapu, Ph.D. (2000)** *Professor, Florida Atlantic University, Boca Raton, USA*
6. **Mr. N. Ilich, Ph.D. (2001),** *President, Optimal Solutions Ltd., Calgary*
7. **Mr. M. Basri, Ph.D. (2001)** *Water Resources Engineer, TetrES Consultants Inc., Winnipeg*
8. **Mr. A. El-Shorbagy, Ph.D. (2001) (co-advisor with Prof. U. Panu, Lakehead University)** *Professor, University of Saskatchewan, Saskatoon*
9. **Mr. S. Ahmad, Ph.D. (2002)** *Professor, University of Nevada, Las Vegas, USA*
10. **Mrs. T. Akter, Ph.D. (2006)** *Hydraulic Engineer, Bechtel Corporation, Maryland, USA*
11. **Mr. I. El-Baroudy, Ph.D. (2006)** *Hydrologist, PINTER & Associates Ltd., Saskatoon*
12. **Mr. E. Davies, Ph.D. (2007)** *Professor, Department of Civil Engineering, University of Alberta, Edmonton*
13. **Mr. P. Prodanovic, Ph.D. (2008)** *Senior Hydraulic Modeller, Integrated Water Resources Management Group, GHD, Kitchener*
14. **Mrs. P. Jeevaragam, Ph.D. (2010)** *Lecturer, Department of Civil Engineering, The University of Technology Malaysia, Skudai*
15. **Mr. S. Ahmad, Ph.D. (2010)** *Water Engineer, City of Ottawa, Ottawa*

16. **Mrs. T. Solaiman, Ph.D. (2011)** *Lead Project Manager, South Florida Water Management District, West Palm Beach, Florida, USA*
17. **Mr. M.K. Akhtar, Ph.D. (2011)** *River Forecast Engineer, Alberta Environment and Parks, Edmonton*
18. **Mr. V. Nikolic, Ph.D. (2015)** *Water Engineer, WSP Consulting, Toronto*
19. **Mr. M. Owraangi, Ph.D. (2015)** *Water Resources Engineer, AMEC Foster Wheeler, Burlington*
20. **Mr. A. Gaur, Ph.D. (2016)** *Research Officer, National Research Council of Canada, Ottawa*
21. **Mr. S. Mandal, Ph.D. (2017)** *Senior machine learning engineer, AIRUDI, Montreal*
22. **Ms. A. Peck, Ph.D. (2019)** *Civil Designer, Associated Engineering (Ont) Ltd., St. Catharines*
23. **Ms. L. King, Ph.D. (2020)** *Dam Safety Engineer, BC Hydro, Vancouver*
24. **Mr. P. Breach, Ph.D. (2020)** *Climate Change Specialist, Golder Associates, Mississauga*

Completed – Master’s Students

1. **Mr. K. Reznichuk, M.Sc. (1988)** *Senior System Planner, Manitoba Hydro, Winnipeg*
2. **Mr. S. Soendjaja, M.Sc. (1989)** *Department of Public Works, Jakarta, Indonesia*
3. **Mr. P. Pelletier, M.Sc. (1990)** *Vice President, Automation Tooling Systems, Toronto*
4. **Mr. J. Grahovac, M.Sc. (1990)** *Professor, Business Department, Purdue University, Lafayette, Indiana, USA*
5. **Mrs. S. Qomariyah, M.Sc. (1992)** *Professor, Universitas Sebelas Maret, Solo, Indonesia*
6. **Mr. M. Bender, M.Sc., (1992)** *Principal, Western Surface Water Operations, Matrix Solutions Inc., Environment & Engineering, Calgary*
7. **Mr. G. Douglas, M.Sc. (1992)** *Partner, RDI Technology, Winnipeg*
8. **Mr. K. Agyare, M.Sc. (1992)** *Coordinator, Engineering Review for Public Water Systems, Arizona Department of Environmental Quality, Phoenix, USA*
9. **Mr. D. Poole, M.Sc. (1994)** *Senior Risk Engineer, Dillon Inc., Winnipeg*
10. **Mr. M. DeGagne, M.Sc. (1994)** *Engineering Manager, McElhanney Consulting Services Ltd., Campbell River*
11. **Mr. M. Basri, M.Sc. (1994)** *Water Resources Engineer, TetrES Consultants Inc., Winnipeg*
12. **Mr. R. Tkach, M.Sc. (1996)** *Ecohydraulics Engineer, Manitoba Hydro, Winnipeg*
13. **Miss. A. Kotula, M.Sc. (1997)** *Conawapa & Keeyask Engineer, Manitoba Hydro, Winnipeg*
14. **Miss. H. Kroeger, M.Sc. (1997)** *Environment Officer, Manitoba Conservation, Lac du Bonnet*
15. **Mrs. K. Juliano, M.N.R.M. (1999)** *GIS Specialist, North-South Consultants Inc., Winnipeg*
16. **Mr. M. Aboelata, M.Sc. (1998)** *Senior Hydrologist, Gannett Fleming, Harrisburg, Pennsylvania, USA*
17. **Mr. R. A. McLaren, M.N.R.M. (1999)** *Principal, InterGroup Consultants, Winnipeg*
18. **Mr. P. Huang, M.Sc. (2000)** *IT Analyst, Cummins Inc., Columbus, USA*
19. **Mrs. M. Morris-Oswald, M.N.R.M. (2000)**, *Environmental Consultant, PhaseFour Ltd., Winnipeg*
20. **Mr. F. Liu, M.Sc. (2001)** *Consultant, Manitoba Hydro, Winnipeg*
21. **Mrs. E. Ratnawati, M.Sc. (2001)** *Senior Engineer, Golder Associates, Calgary*
22. **Mr. C. Barth, M.N.R.M. (2001)** *Environmental Specialist, North-South Consultants Inc., Winnipeg*
23. **Mr. G. Casella, M.Sc. (2002) (co-advisor with Prof. R. Soncini-Sessa, Polytechnic of Milan)** *Consulting Engineer, Milan, Italy*

24. **Mr. F. Farina, M.Sc. (2002)** (co-advisor with Prof. R. Soncini-Sessa, Polytechnic of Milan) *Consulting Engineer, Milan, Italy*
25. **Mr. M. Ranjit, M.Sc. (2003)** *Lecturer, Tribhuvan University, Nepal*
26. **Mr. R. Rashid, M.Sc. (2003)** (co-advisor with Prof. M.Nehdi, University of Western Ontario) *PhD candidate, University of Waterloo*
27. **Mr. J. Nakatsuka, M.Sc. (2004)** (co-advisor with Prof. T. Kojiri, Kyoto University), *Junior Engineer, Nipon Cons., Tokyo, Japan*
28. **Mr. P. Prodanovic, M.Sc. (2004)** *Senior Hydraulic Modeller, Integrated Water Resources Management Group, GHD, Kitchener*
29. **Mr. S. Ahmad, M.Sc. (2006)** *Water Engineer, City of Ottawa, Ottawa*
30. **Mr. D. Sredojevic, M.Sc. (2010)** *Dillon Consulting, London*
31. **Ms. A. Peck, MSc. (2011)** *PhD Candidate, The University of Western Ontario, London*
32. **Ms. E. Bowering, MSc. (2011)** *Engineer, GHD, Kitchener*
33. **Mr. D. Vucetic, MSc. (2012)** *Senior Engineer, Stantec, London*
34. **Ms. L. King, MSc. (2012)** *Engineer, BC Hydro, Vancouver*
35. **Mr. A. Gaur, MSc. (2013)** *Research Officer, National Research Council of Canada, Ottawa*
36. **Mr. J. Atherton, MSc. (2013)** *Junior engineer, STANTEC, Water Resources Group, Markham*
37. **Mr. N. Agam, MSc. (2014)** *Engineer, London*
38. **Ms. S. Irwin, MSc. (2015)** *Engineer, GHD, Kitchener*
39. **Mr. B. Pavlovic, MSc. (2016)** *Water Resources Engineer, Scheffer&Associates, Toronto*
40. **Mr. T. Kokas, MSc. (2017)** (co-advisor with Prof. A. Binns), *Water resources engineer, Ausable Bayfield Conservation, Exeter*
41. **Mrs. A. Gaur, MSc. (2017)** *Water Resources Engineer, Natural Resources Canada, Government of Canada, Edmonton Alberta Canada*
42. **Mr. R. Weise, MSc. (2018)** *Water Resources EIT, KGS Group Consulting Engineers & Project Managers, Mississauga*
43. **Mr. H. Tong, MSc. (2019)** *Consultant, Brampton*
44. **Mr. M. Eichenbaum, MSc. (2019)** *Designer, MTE Consultants Inc., Burlington*
45. **Mr. J. Braden, MSc. (2021)** *Junior Engineer, Ainley Group, Kingston*

Current – Visiting Scientists

Current – Postdoctoral Fellows

1. **Mr. Latif Shahid**, *Compound flooding*

Current – Doctoral Students

Current – Master’s Students

PUBLICATIONS:

Summary

	In English	In mother tongue (Serbian)
Books and monographs	34	
Journal papers	237	25
Discussion papers and invited commentaries	36	
Refereed papers in conference proceedings	90	10
Conference papers refereed by abstracts	90	3
TOTAL	487	38
Technical reports	120	12
TOTAL	120	12
Invited presentations	300	19
Journal papers submitted for review	8	

Books, Book Chapters, Edited Publications and Monographs

1. Simonovic, S.P., et. al., **Water Resource Systems Application**, Friesen, Winnipeg, Canada, 1990.
- contributor of editorial service.
2. Loucks, D.P., and J.R. da Costa, **Decision Support Systems: Water Resources Planning**, NATO ASI Series G, Vol. 26, Springer-Verlag, New York, 1991.
- contributor of one signed article and one chapter (pp. 3-41; pp. 485-526).
3. Kundzewicz, Z.W., D. Rosbjerg, S.P. Simonovic, E.K. Takeuchi, **Extreme Hydrological Events: Precipitation, Floods and Droughts**, IAHS Publication No. 213, IAHS Press, Wallingford, 1993.
- contributor of editorial service and two signed articles (pp. 1-11, pp. 349-361).
4. Simonovic, S.P., Z.W. Kundzewicz, D. Rosbjerg, E.K. Takeuchi, **Modelling and Management of Sustainable Basin-Scale Water Resource Systems**, IAHS Publication No. 231, IAHS Press, Wallingford, 1995.
- contributor of chief editorial service and two signed articles (pp. 159-169, pp. 197-207).
5. Simonovic, S.P., **Sustainable Development of Water Resources**, Special Issue of *Hydrological Sciences Journal*, Vol.42, No.4, 1997.
- guest editor and contributor of one signed article (pp. 493-500).
6. UNESCO/IHP Project M-4.3, **Sustainability Criteria for Water Resource Systems**, ASCE, 1998.
- member of the working group, contributor of one chapter (pp. 169-187) and three sections.
7. Takeuchi, K., M. Hamlin, Z.W. Kundzewicz, D. Rosbjerg, and S.P. Simonovic, **Sustainable Reservoir Development and Management**, IAHS Publication No. 251, IAHS Press, Wallingford, 1998.
- member of the project team and contributor of one chapter and six different sections.
8. Simonovic, S.P., **IWRA 21: A Shared Vision for Management of Water Resources**, Special Issue of *Water International*, Vol. 25, No. 1, 2000.
- guest editor and contributor of one signed article (pp. 76 – 88).
9. Marino, M.A., and S.P. Simonovic, **Integrated Water Resources Management**, IAHS Publication No. 272, IAHS Press, Wallingford, 2001.
- contributor of chief editorial service and one signed article (pp. 257-263).
10. Simonovic, S.P., **Non-structural Measures for Water Management**, Special Issue of *Water International*, Vol.27, No.1, 2002.
- guest editor and contributor of one signed article (pp. 38-46).
11. Simonovic, S.P., **Decision Support Systems for Sustainable Management of Water Resources:1. General Principles**, in Wolf, A.T., **Conflict Prevention and Resolution in Water Systems**, Part VI: Worldviews of water: Disciplinary approaches, Section F: Decision Support Systems, pp.697-708, 2002.
12. Simonovic, S.P., (editor) **Non-structural Measures for Water Resources Management Problems**, Technical Documents in Hydrology, No. 56, pp. 309, UNESCO, Paris, 2002 (available on line at <http://unesdoc.unesco.org/images/0012/001272/127232e.pdf>).
- contributor of editorial service and one signed article (pp. 65-81).
13. Nandalal, K.D.W., and S.P. Simonovic (editors) **State-of-the-art Report on Systems Analysis Methods for Resolution of Conflicts in Water Resources Management**, UNESCO/IHP/WWAP/IHP-VI/ Technical Documents in Hydrology, PC→CP series, No.4, pp.127, Paris, 2003.
- contributor of editorial service and author of seven sections.

14. Simonovic, S.P., CANADA – Flood Management in the Red River, Manitoba, Integrated Flood Management Case Study, World Meteorological Organization – The Associated Programme on Flood Management, May 2004.
15. Simonovic, S.P., Participatory Multi-criteria Flood Management, **Encyclopedia of Water: Water Quality and Resource Development**, Wiley Interscience, edited by J.H. Lehr, pp.678-683, 2005.
16. Simonovic, S.P., Water Resources Systems Analysis, **Encyclopedia of Water: Water Quality and Resource Development**, Wiley Interscience, edited by J.H. Lehr, pp.683-688, 2005.
17. Simonovic, S.P., Fuzzy Criteria for Water Resources Systems Performance Evaluation, **Encyclopedia of Water: Water Quality and Resource Development**, Wiley Interscience, edited by J.H. Lehr, pp.674-678, 2005.
18. Simonovic, S.P., Flood Prevention, **Encyclopedia of Water: Surface and Agricultural Water**, Wiley Interscience, edited by J.H. Lehr, pp.510-513, 2005.
19. Nandalal, K.D.W, and S.P. Simonovic, **Conflict Resolution Support System: A Software for the Resolution of Conflicts in Water Resource Management**, UNESCO-IHP and WWAP, PC→CP 2nd phase, CD-ROM, Paris, 2006.
- contributor of editorial service and author of seven sections.
20. Simonovic, S.P., Chapter 9. Sustainable Floodplain Management – Participatory Planning in the Red River Basin, in Castelletti, A. and R. Soncini-Sessa, editors, **Topics on System Analysis and Integrated Water Resources Management**, Elsevier, Amsterdam, the Netherlands, pp. 173 – 189, 2007.
21. Simonovic, S.P., **Managing Water Resources: Methods and Tools for a Systems Approach**, UNESCO, Paris and Earthscan James & James, London, pp.576, ISBN 978-1-84407-554-6, 2009.
22. Simonovic, S.P., **Systems Approach to Management of Disasters: Methods and Applications**, John Wiley & Sons Inc., New York, pp.348, ISBN: 978-0-470-52809-9, 2011 (available from Nov 2010), 2011.
23. Simonovic, S.P., Chapter 2. Evolution of Flood Management Policy in Canada and Flood of the Century in the Red River Basin, in Chavoshian, A. and K. Takeuchi, editors, **Large-scale Floods Report: Lessons Learned and Best Practices for Flood Disaster Managers and Policy Makers**, ICHARM Book Series No.1, Tsukuba, Japan, pp.27-52, 2011.
24. Simonovic, S.P., **Floods in a Changing Climate: Risk Management**, Cambridge University Press, UK, pp.181, ISBN:978-1-107-01874-7, 2012.
25. Simonovic, S.P., **Systems Approach to Management of Disasters: Methods and Applications**, Chinese edition (translated by H. Han), Science Press, Beijing, China, pp. 278, ISBN: 978-7-03-038328-0, 2013.
26. Chavoshian, A., K. Takeuchi, X. Cheng, E. Plate, S.P. Simonovic, S. Uhlenbrook, and N. Wright, **Floods: From Risk to Opportunity**, IAHS Publication 357, pp.468, Wallingford, UK, 2013.
- contributor of editorial service.
27. Simonovic, S.P., Chapter 7. Adaptation to Climate Change: Risk Management, in Kolokytha, E., Oishi, S. and Teegavarapu, R.S.V. editors, **Sustainable Water Resources Planning and Management Under Climate Change**, Springer Singapore, pp. 157 – 187, ISBN:978-981-10-2049-0, 2017.
28. Simonovic, S.P., **Floods in a Changing Climate: Risk Management**, Chinese edition (translated by X. Cheng et al.), China Institute of Water Resources and Hydropower Research, Tsinghua University Press, Beijing, China, pp.476, ISBN:978-7-302-44194-6, 2017

29. Simonovic, S.P., Chapter 14. From Risk Management to Quantitative Disaster Resilience: A New Paradigm for Catastrophe Modeling, in Michel, G. editor, **Risk Modeling for Hazards and Disasters**, Elsevier, Amsterdam, Netherlands, pp. 281 – 296, ISBN: 978-0-12-804071-3, 2018.
30. Gaur, A., and S.P. Simonovic, Chapter 4. Introduction to Physical Scaling: A Model Aimed to Bridge the Gap Between Statistical and Dynamic Downscaling Approaches, in Teegavarapu, R. editor, **Trends and Changes in Hydroclimatic Variables - Links to Climate Variability and Change**, Elsevier, Amsterdam, Netherlands, pp. 199 - 273 , ISBN: 978-0-12-810985-4, 2019.
31. Loucks, D.P., and L. Saito editors, **Adventures in Managing Water: Real-World Engineering Experiences**, ASCE, Reston, Virginia, USA, ISBN (print): 9780784415337, ISBN (PDF): 9780784482278, 2019.
- contributor of three signed stories (pp. 54 – 57; 164 - 171).
32. Simonovic, S.P., **Managing Water Resources: Methods and Tools for a Systems Approach**, Farsi edition (translated by O. Bozorg-Haddad), University of Tehran Press 2988, Tehran, Iran pp.576, ISBN: 978-964-03-7220-3, 2018.
33. Tanaka, K., Y. Fujihara, F. Topaloglu, S.P. Simonovic and T. Kojiri, Chapter 5. Impacts of Climate Change on Basin Hydrology and Availability of Water Resources, in Watanabe T., S. Kapur, M. Ayuding, R. Kanber and E. Akca editors, **Climate Change Impacts on Basin Agro-ecosystems** , pp. 71 – 97, ISBN: 978-3-030-01036-2, 2019. *Publication award for 2020 of JSIDRE (Japanese Society of Irrigation, Drainage and Rural Engineering)*
34. Simonovic, S.P., **Application of the Systems Approach to the Management of Complex Water Systems**, MDPI St. Alban-Anlage 66 4052 Basel, Switzerland, pp.303, ISBN 978-3-03943-769-6 (Hbk); ISBN 978-3-03943-770-2 (PDF), 2020.
- contributor of editorial service and author of editorial (pp. 1-5), three signed articles (pp. 129-146, pp. 181-202, pp. 287-302), and one book review (pp.303).

Journal Papers

1. Prohaska, S., S.P. Simonovic and T. Petkovic (1976), "Annual Distribution of the Water Discharge and Temperature for the River Danube and its Tributaries", *The Waters of Vojvodina*, pp. 127-144, Novi Sad, Yugoslavia (in Serbian).
2. Prohaska, S. and S.P. Simonovic (1977), "Frequency Analysis of Hydro-meteorological Variables Using the Stage-Year Method", *Water Resources*, 44: 42-47, Belgrade, Yugoslavia (in Serbian).
3. Simonovic, S.P., T. Petkovic and S. Prohaska (1977), "Basic Concepts of Non-linear Mathematical Models for Generating the Missing Hydro-meteorological Data, Extending Short Data Series and Spatial Data Transfer", *Water Resources*, 44: 66-71, Belgrade, Yugoslavia (in Serbian).
4. Prohaska, S., S.P. Simonovic and T. Petkovic (1977), "Annual Dis-aggregation of River Flows", *Water Resources*, No. 44, pp. 61-65, Belgrade, Yugoslavia (in Serbian).
5. Prohaska, S. and S.P. Simonovic (1977), "Non-linear Mathematical Models for the Extrapolation and Interpolation of Hydrological Data", *Transactions*, 58: 5-24, Belgrade, Yugoslavia (in Serbian).
6. Prohaska, S., T. Petkovic and S.P. Simonovic (1977), "Derivation of Relations Between Hydrological Variables Using Multiple Standardized Correlation", *Transactions*, 58: 25-33, Belgrade, Yugoslavia (in Serbian).
7. Simonovic, S.P. (1977), "Stochastic Model of the Multi-Purpose Reservoir with Chance-Constraints", *Transactions*, 59: 5-30, Belgrade, Yugoslavia (in Serbian).
8. Simonovic, S.P. (1978), "Influence of the Size of Feasible Region on the Optimal Reservoir Yield Obtained by a Stochastic Model with Chance-Constraints", *Water Resources*, 56: 12-17, Belgrade, Yugoslavia (in Serbian).
9. Prohaska, S., T. Petkovic and S.P. Simonovic (1979), "A Mathematical Model for the Spatial Interpolation of Hydro-meteorological Data", *Transactions*, 22(64-66): 1-10, Belgrade, Yugoslavia.
10. Simonovic, S.P. (1979), "Two-Step Algorithm for Design-Stage Long-Term Control of a Multipurpose Reservoir", *Advances in Water Resources*, 2(3): 47-49.
11. Simonovic, S.P. and M.A. Marino (1980), "Reliability Programming in Reservoir Management, 1. Single Multi-Purpose Reservoir", *Water Resources Research*, 16(5): 844-848.
12. Marino, M.A. and S.P. Simonovic (1981), "Single Reservoir Design – A Modified Optimal Control Problem by Chance Constrained Programming", *Advances in Water Resources*, 4(3): 43-48.
13. Simonovic, S.P. and M.A. Marino (1981), "The Role of the Unconditioned and Conditioned Cumulative Distribution Functions in Reservoir Reliability Programming", *Journal of Hydrology*, 52(3/4): 219-228.
14. Simonovic, S.P. and A.M. Marino (1981), "Reliability Programming in Reservoir Management: 2. Risk-loss Functions", *Water Resources Research*, 17(4): 822-826.
15. Simonovic, S.P. (1981), "Introduction of Reliability Programming to Water Resources Systems Management", *Water Resources*, 73: 377-381, Belgrade, Yugoslavia (in Serbian).
16. Simonovic, S.P. and M.A. Marino (1982), "Reliability programming in Reservoir Management: 3. System of Multipurpose Reservoirs", *Water Resources Research*, 18(4): 735-743.

17. Simonovic, S.P. (1982), "Development of Flood Risk-loss Functions", *Water Resources*, 14(6): 447-452, Belgrade, Yugoslavia (in Serbian).
18. Simonovic, S.P. (1982), "Reliability Programming for the Management of Water Resources Systems with Reservoirs", *Transactions*, 25: 73-74, Belgrade, Yugoslavia (in Serbian).
19. Simonovic, S.P. (1983), "Reliability Programming for Reservoir Management", *The Waters of Vojvodina*, 11: 159-209, Novi Sad, Yugoslavia (in Serbian).
20. Simonovic, S.P. (1983), "Reliability programming in Reservoir Management – Computer Programming Issues", *Transactions*, 26(73-76): 1-6, Belgrade, Yugoslavia (in Serbian).
21. Simonovic, S.P. and Lj. Miloradov (1983), "Optimization Analysis of Hydro-power Production of the North Backa Hydro-system", *The Waters of Vojvodina*, 11: 211-236, Novi Sad, Yugoslavia (in Serbian).
22. Miloradov, Lj., and S.P. Simonovic (1984/1985), "Systems Approach to the Derivation of Potential Hydro-power Production in the North Backa Region", *Transactions*, 27: 15-26, Belgrade, Yugoslavia.
23. Simonovic, S.P. and G.T. Orlob (1984), "Risk-reliability Programming for Optimal Water Quality Control", *Water Resources Research*, 20(6): 639-646.
24. Simonovic, S.P., B. Karan and Z. Jovanovic (1984), "Water Resources Information System for the Republic of Serbia :1. Present State Analysis", *Water Resources*, 16(91-92): 381-389, Belgrade, Yugoslavia (in Serbian).
25. Prohaska, S. and S.P. Simonovic (1984), "Development of Simulation Model for the River Sava", *Waters of Vojvodina*, 12: 97-108, Novi Sad, Yugoslavia (in Serbian).
26. Simonovic, S.P., B. Djordjevic and Lj. Miloradov (1984), "Hydro-power Potential of the Danube-Tisza-Danube System", *Waters of Vojvodina*, 12: 297-304, Novi Sad, Yugoslavia (in Serbian).
27. Simonovic, S.P. (1985), "Opportunities for the Application of Systems Analysis Approach to Drainage and Irrigation", *Waters of Vojvodina*, 13: 287-299, Novi Sad, Yugoslavia (in Serbian).
28. Tomanic, M. and S.P. Simonovic (1986), "Analysis of Rapid Storage Procedures for Sizing Reservoirs of Small Hydro-power Plants", *Water Resources*, 1(98): 385-394, Belgrade, Yugoslavia (in Serbian).
29. Simonovic, S.P. (1987), "The Implicit Stochastic Model for Reservoir Yield Optimization", *Water Resources Research*, 23: 2159-2166.
30. Simonovic, S.P. and Lj. Miloradov (1988), "Potential Hydro Energy Production by Optimization Analysis, *ASCE Journal of Water Resources Planning and Management*, 14(1): 101-107.
31. Simonovic, S.P. (1988), "Influence of Different Downstream Users on Single Multipurpose Reservoir Operation by Chance Constraints", *Canadian Journal of Civil Engineering*, 15(4): 596-600.
32. Simonovic, S.P., P.M. Pelletier, and K. Barlshen (1988), "Optimization of the Hydrometric Network Operation by a Heuristic Traveling Salesman Algorithm", *Water Resources Bulletin*, 24(6): 1185-1192.
33. Pelletier, P.M. and S.P. Simonovic (1988), "An Initial Try to Optimize the Operation of a Hydrometric Network", *Canadian Journal of Civil Engineering*, 15(4): 717-725.
34. Simonovic, S.P., and D.H. Burn (1989), "An Improved Methodology for Short-Term Operation of a Single Multi-Purpose Reservoir", *Water Resources Research*, 25(1): 1-8.

35. Simonovic, S. P. (1989), "Application of Water Resource Systems Concept to the Formulation of a Water Master Plan", *Water International*, 14(1): 37-50, available online at <https://doi.org/10.1080/02508068908692032>
36. Simonovic, S.P. and D. Savic (1989), "Intelligent Decision Support for Reservoir Management and Operations", *ASCE Journal of Computing in Civil Engineering*, 3(4): 367-385.
37. Barlishen, K.D., S.P. Simonovic, and D.H. Burn (1989), "A Simulation-Optimization Algorithm for Reservoir Capacity Calculation: The Effect of Inflow Data Set Length", *Canadian Journal of Civil Engineering*, 16(4): 477-482.
38. Simonovic, S.P. (1989), "Reservoir Modelling: From Cumulative Diagram to Expert Systems", *Water Resources*, 21(122): 653-665, Belgrade, Yugoslavia (in Serbian).
39. Simonovic, S.P., and M. Miloradov (1990), "Expert Systems for Decision Support in Water Resources", *The Waters of Vojvodina*, 19(1): 1-10, Novi Sad, Yugoslavia (in Serbian).
40. Miloradov, M., and S.P. Simonovic (1990), "An Expert System for Flood Protection of the Danube River Basin", *The Waters of Vojvodina*, 19: 11-21, Novi Sad, Yugoslavia (in Serbian).
41. Simonovic, S.P. (1990), "An Expert System for the Selection of a Suitable Method for Flow Measurement in Open Channels", *Journal of Hydrology*, 112: 237-256.
42. Reznicek, K.K., and S.P. Simonovic (1990), "An Improved Algorithm for Hydropower Optimization", *Water Resources Research*, 26(2): 189-198.
43. Simonovic, S.P. (1991), "Knowledge-Based Systems and Operational Hydrology", *Canadian Journal of Civil Engineering*, 18(1): 1-11.
44. Reznicek, K.K., S.P. Simonovic, B.A. Bector (1991), "Optimization of Short-Term Operation of a Single Multipurpose Reservoir – A Goal Programming Approach", *Canadian Journal of Civil Engineering*, 18(1): 397-406.
45. Burn, D.H., H.D. Venema, and S.P. Simonovic (1991), "Risk-Based Performance Criteria for Real-Time Reservoir Operation", *Canadian Journal of Civil Engineering*, 18(1): 36-42.
46. Barlishen, K.D., D.H. Burn, and S.P. Simonovic (1991), "Experience With Knowledge Acquisition for an Engineering Expert System", *Civil Engineering Systems*, 8(1): 13-18.
47. Reznicek, K.K., D.A. Cormie, P.E. Barritt-Flatt, and S.P. Simonovic (1991), "Comparison of Algorithms for Hydropower Optimization: Manitoba Hydro Case Study", *Civil Engineering Systems*, 8(1): 3-8.
48. Savic, D.A., and S.P. Simonovic (1991), "Selecting Risk Levels in Chance-Constrained Reservoir Operation Modeling: A Fuzzy Set Approach", *Water Resources Management Journal*, 4: 251-271.
49. Savic, D. A., and S.P. Simonovic (1991), "One Approach to Interactive Single Multipurpose Reservoir Modeling and Model Use", *Water Resources Research*, 27(10): 2509-2523.
50. Simonovic, S.P., H.D. Venema, and D.H. Burn (1992), "An Improved Methodology for Short-Term Operation of a single Multi-Purpose Reservoir: Risk-Based Parameters Selection ", *Journal of Hydrology*, 131(2): 269-291.
51. Reznicek, K.K. and S.P. Simonovic (1992), "Issues in Hydropower Modelling Using the GEMSLP Algorithm, *ASCE Journal of Water Resources Planning and Management*, 118(1): 54-70.
52. Simonovic, S.P. (1992), "Challenges of the Changing Profession", *ASCE Journal of Professional Issues in Engineering*, 118(1): 1-9 (**award for the best paper in 1992**)
53. Simonovic, S.P. (1992), "Reservoir Systems Analysis: Closing Gap between Theory and Practice, *ASCE Water Resources Planning and Management Division*, 118(3): 262-280.
54. Simonovic, S.P. (1992), "A knowledge-based Advisory System for Single Multipurpose Reservoir Management", *Water Resources Development*, 8(3): 186-194.

55. Bender, M.J., C.Katopodis, and S.P. Simonovic (1992), "A Prototype Application of Expert Systems for Fishway Design", *Environmental Monitoring and Assessment*, 23: 115-127.
56. Bender, M., S.P. Simonovic, D.H. Burn, and W. Mohammed (1993), "Interactive Computer Graphics for Expert System Verification", *ASCE Journal of Water Resources Planning and Management*, 119(5): 518-530.
57. Simonovic, S.P., and S. Qomariyah (1993), "Reassessment of the Management Strategies for Wonogiri Reservoir in Central Java", *Water International*, 18(4): 207-216.
58. Bender, M.J., and S.P. Simonovic (1994), "Decision Support System for Long-Range Stream Flow Forecasting", *ASCE Journal of Computing in Civil Engineering*, 8(1): 20-34.
59. Bender, M.J., G.V. Johnson, and S.P. Simonovic (1994), "Sustainable Management of Renewable Resources: A Comparison of Alternative Decision Approaches", *International Journal of Sustainable Development and World Ecology*, 1(2): 77-88.
60. Gawne, K.D., and S.P. Simonovic (1994), "A Computer-Based System for Modelling Stage-Discharge Relationship in Steady State Conditions", *Hydrological Sciences Journal*, 39(5): 487-506.
61. Bender, M.J., and S.P. Simonovic (1994), "Time Series Modelling for Long-Range Stream Flow Forecasting", *ASCE Journal of Water Resources Planning and Management*, 120(6): 857-870.
62. DeGagne, M., and S.P. Simonovic (1994), "New Method for Mathematical Modelling of Complex Stage-Discharge Relation", *Canadian Journal of Civil Engineering*, 21(6): 990-998.
63. Srinivasan, R. and S.P. Simonovic (1994), "A Reliability Programming Model for Hydropower Optimization", *Canadian Journal of Civil Engineering*, 21(6): 1061-1073.
64. Simonovic, S.P. (1995) "Synthesizing Missing Streamflow Records on Several Manitoba Streams Using Multiple Nonlinear Standardized Correlation Analysis", *Hydrological Sciences Journal*, 40(2): 183-205.
65. Burn, H.D. and S.P. Simonovic (1996), "Sensitivity Of Reservoir Operation Performance To Climatic Change", *Water Resources Management Journal*, 10(6): 463-478.
66. Simonovic, S.P., and M.J. Bender (1996), "Collaborative Planning Support System: An Approach for Determining Evaluation Criteria", *Journal of Hydrology*, 177(3-4): 237-251.
67. DeGagne, M., G.G. Douglas, H.R. Hudson, and S.P. Simonovic (1996), "A Decision Support System for the Analysis and Use of Stage-Discharge Rating Curves", *Journal of Hydrology*, 184(3-4): 225-241.
68. Simonovic, S.P., (1996) "Decision Support Systems for Sustainable Management Of Water Resources 1. General Principles ", *Water International*, 21(4): 223-232 (**award for the best paper in 1996**).
69. Simonovic, S.P., (1996) "Decision Support Systems For Sustainable Management Of Water Resources 2. Case Studies ", *Water International*, 21(4): 233-244 (**award for the best paper in 1996**).
70. Tkach, R. J., and S.P. Simonovic (1997) " A New Approach to Multi-Criteria Decision Making in Water Resources", *Journal of Geographic Information and Decision Analysis (electronic journal)*, http://publish.uwo.ca/~jmalczew/gida_1/Tkach/Tkach.htm, 1(1): 25-43.
71. Simonovic, S.P., H. Fahmy, and A. El-Shorbagy, (1997) "The use of object oriented modeling for water resources planning in Egypt", *Water Resources Management*, 11: 243-261.
72. Bender, M.J., and S.P. Simonovic, (1997) "Consensus as the Measure of Sustainability", *Hydrological Sciences Journal*, 42(4): 493-500.

73. Kroeger, H.I., and S.P., Simonovic (1997) "Development of a Risk Measure as a Sustainable Project Selection Criterion, *International Journal of Sustainable Development and World Ecology*, 4(4): 274-286.
74. Simonovic, S.P., D.H., Burn, and B.J. Lence, (1997) "Practical Sustainability Criteria for Decision Making", *International Journal of Sustainable Development and World Ecology*, 4(4): 231-244.
75. Ilich, N., and S.P. Simonovic, (1998) "An Evolution Program for Pipeline Optimization", *ASCE Journal of Computing in Civil Engineering*, 12(4): 232-240.
76. Simonovic, S.P. (1998) "Social Criteria for Evaluation of Flood Management Decisions", *Canadian Civil Engineer*, 15(6): 8-12.
77. Srinivasan, R., H.M. Surminski, and S.P. Simonovic, (1999) "Reliability-Based Loss Functions Applied to Manitoba Hydro Energy Generation Systems", *ASCE Journal of Water Resources Planning and Management*, 125(1): 34-40.
78. Simonovic, S.P., and H. Fahmy, (1999) "A New Modeling Approach for Water Resources Policy Analysis", *Water Resources Research*, 35(1): 295-304.
79. Zealand, C.M., D.H. Burn, and S.P. Simonovic, (1999) "Short-term Streamflow Forecasting Using Artificial Neural Networks", *Journal of Hydrology*, 214(1-4): 32-48.
80. McLaren R. A., and S.P. Simonovic, (1999) "Data Needs for Sustainable decision Making", *International Journal of Sustainable Development and World Ecology*, 6(2): 103-113.
81. McLaren R. A., and S.P. Simonovic, (1999) "Evaluating sustainability criteria for water resource decision making: Assiniboine Delta Aquifer case study", *Canadian Water Resources Journal*, 24(2): 147-163.
82. Teegavarapu, R.S.V., and S.P. Simonovic, (1999) "Modeling Uncertainty in Reservoir Loss Functions Using Fuzzy Sets", *Water Resources Research*, 35(9): 2815-2823.
83. Simonovic, S.P., (1999) "Decision Support System for Flood Management in the Red River Basin", *Canadian Water Resources Journal*, 24(3): 203-223.
84. Simonovic, S.P. (1999) "Prototype Virtual Database Development for Management of Floods in the Red River Basin", *Canadian Civil Engineer*, 16(6): 12-15.
85. Simonovic, S. P., (1999) "Social Criteria for Evaluation of Flood Control Measures – Winnipeg Case Study", *Urban Water (special issue 'Non-Structural Measures in Urban Flood Control' ed. B. Braga)*, 1(2): 167-175.
86. Rangarajan, S., and S.P. Simonovic, (1999) "The Value of Considering Autocorrelation Between Inflows in the Stochastic Planning of Water Resource Systems", *Water Resources Management Journal*, 13(6): 427-442.
87. Teegavarapu, R.S.V., and S.P. Simonovic, (2000) "Short-Term Operation Model for Coupled Hydropower reservoirs", *ASCE Journal of Water Resources Planning and Management*, 126(2): 98-107.
88. Simonovic, S.P., (2000) "Tools for Water Management: One View of the Future", *Water International*, 25(1): 76-88.
89. Simonovic, S.P., (2000) "Last Resort Algorithms for Optimization of Water Resources Systems", *CORS – SCRO (Canadian Operational Research Society) Bulletin*, 34(1): 9-19.
90. Bender, M.J., and S.P. Simonovic (2000) "A Systems Approach for Collaborative Decision Support in Water Resources Planning", *International Journal of Technology Management*, 19(3/4/5): 546-557.
91. Ilich N., S.P. Simonovic, and M. Amron, (2000) "The benefits of computerized real-time river basin management in the Malahayu reservoir system", *Canadian Journal of Civil Engineering*, 27: 55-64.

92. Ahmad, S., and S.P. Simonovic, (2000) "Modeling Reservoir Operations for Flood Management Using System Dynamics", *ASCE Journal of Computing in Civil Engineering*, 14(3): 190-198.
93. El-Shorbagy, A., S.P. Simonovic, and U. Panu, (2000) "Performance Evaluation of Artificial Neural Networks for Runoff Prediction", (technical note), *ASCE Journal of Hydrologic Engineering*, 5(4): 424-427.
94. El-Shorbagy, A., U.S. Panu, and S.P. Simonovic, (2000) "Group-based Estimation of Missing Hydrological Data I. Approach and general methodology", *Hydrological Sciences Journal*, 45(6): 849-866.
95. El-Shorbagy, A., U.S. Panu, and S.P. Simonovic, (2000) "Group-based Estimation of Missing Hydrological Data II. Application to stream flows", *Hydrological Sciences Journal*, 45(6): 867-880.
96. Bender, M. J., and S.P. Simonovic, (2000) "A Fuzzy Compromise Approach to Water Resources Planning under Uncertainty", *Fuzzy Sets and Systems*, 115(1): 35-44.
97. Despic, O., and S.P. Simonovic, (2000) "Aggregation Operators for Soft Decision Making in Water Resources", *Fuzzy Sets and Systems*, 115(1): 11-33.
98. Ahmad, S., and S.P. Simonovic, (2001) "Integration of Heuristic Knowledge with Analytical Tools for Selection of Flood Damage Reduction Measures", *Canadian Journal of Civil Engineering*, 28(2): 208-221.
99. Ilich, N., and S.P. Simonovic, (2001) "An Evolution Program for Non-Linear Transportation Problem", *Journal of Heuristics*, 7(2):145-168.
100. Simonovic, S.P. and K. Juliano, (2001) "The role of Wetlands During Low Frequency Flooding Events in the Red River Basin", *Canadian Water Resources Journal*, 26(3): 1- 21.
101. Simonovic, S.P. (2001) "WorldWater: A Tool for Global Modeling of Water Resources", *Canadian Civil Engineer*, 18(3): 6-12.
102. El-Shorbagy, U.S. Panu, and S.P. Simonovic, (2001), "Analysis of Cross-correlated Chaotic Streamflows", *Hydrological Sciences Journal*, 46(5):781-793.
103. El-Shorbagy, A., S.P. Simonovic, and U.S. Panu, (2002) "Estimation of Missing Streamflow Data Using Principles of Chaos Theory", *Journal of Hydrology*, 255(1-4):123-133.
104. El-Shorbagy, A., S.P. Simonovic, and U.S. Panu, (2002) "Noise Reduction in Chaotic Hydrologic Time Series: Facts and Doubts", *Journal of Hydrology*, 256(3-4):147-165.
105. Ahmad, S., and S.P. Simonovic, (2002) "A Decision Support Tool for Evaluation of Impacts of Flood Management Policies", *Hydrological Sciences and Technology*, 17(1-4):11-23.
106. Simonovic, S.P., (2002) "Two new non-structural measures for sustainable management of floods", *Water International*, 27(1):38-46.
107. Simonovic, S.P., (2002) "Global Water Dynamics: Issues for the 21st Century", *Journal of Water Science and Technology*, 45(8):53-64.
108. Li, L., and S.P. Simonovic, (2002) "System Dynamics Model for Predicting Floods from Snowmelt in North American Prairie Watersheds", *Hydrological Processes Journal*, 16:2645-2666.
109. Simonovic, S.P., (2002) "World Water Dynamics: Global Modeling of Water Resources", *Journal of Environmental Management*, 66(3):249-267.
110. Prodanovic, P., and S.P. Simonovic, (2002) "Comparison of fuzzy set ranking methods for implementation in water resources decision-making", *Journal of Civil Engineering, CSCE*, 29:692-701.
111. Teegavarapu, R.S.V., and S.P. Simonovic, (2002) "Optimal Operations of Multiple Reservoirs Using Simulated Annealing", *Water Resources Management Journal*, 16:401-428.

112. Simonovic, S.P., and R.W. Carson, (2003) "Flooding in the Red River Basin – Lessons From Post Flood Activities", *Natural Hazards*, 28:345-365.
113. Simonovic, S.P., and Li, L., (2003) "Methodology for Assessment of Climate Change Impacts on Large-Scale Flood Protection System", *ASCE Water Resources Planning and Management Journal*, 129(5):361-372.
114. Prodanovic, P., and S.P. Simonovic, (2003) "Fuzzy compromise programming for group decision making" *IEEE Transactions on Systems, Man, and Cybernetics—Part a: Systems and Humans*, 33(3):358-365.
115. Simonovic, S.P. (2003) "Water resources systems analysis: One view of the future", *Water Resources*, 203-204(3-4):141-154, Belgrade, Yugoslavia (in Serbian).
116. Rajasekaram, V, S.P. Simonovic, and K.W. Nandalal, (2003) "Computer Support for Implementation of a Systemic Approach to Water Conflict Resolution", *Water International*, 28(4):454-466.
117. Nandalal, K.D.W., and S.P. Simonovic, (2003) "Resolving conflicts in water sharing: A systemic approach", *Water Resources Research*, 39(12):1362-1373.
118. Simonovic, S.P., and L., Li, (2004) "Sensitivity of the Red River Basin Flood Protection System to Climate Variation and Change", *Water Resources Management Journal*, 18(2):89-110.
119. Nehdi, M., R.Rehan, and S.P. Simonovic, (2004) "System Dynamics Model for Sustainable Cement and Concrete: A Novel Tool for Policy Analysis", *ACI Materials Journal*, 101(3):216-225.
120. Ahmad, S., and S.P. Simonovic, (2004) "Spatial System Dynamics: A New Approach for Simulation of Water Resources Systems", *Journal of Computing in Civil Engineering, ASCE*, 18(4):331-340.
121. El-Baroudy, I., and S.P. Simonovic, (2004) "Fuzzy Criteria for the Evaluation of Water Resources Systems Performance" *Water Resources Research*, 40(10):W10503, pp.10.
122. Akter, T., and S.P. Simonovic, (2004) "Modeling uncertainties in short-term reservoir operation using fuzzy sets and genetic algorithm", *Hydrological Sciences Journal*, 49(6):1081-1097, open access <https://doi.org/10.1623/hysj.49.6.1081.55722>.
123. Simonovic, S.P., and V. Rajasekaram, (2004) "Integrated Analyses of Canada's Water Resources: A System Dynamics Model ", *Canadian Water Resources Journal*, 29(4):223-250.
124. Akter, T., S.P. Simonovic, and J. Salonga, (2004) "Aggregation of Inputs from a Large Number of Stakeholders for Flood Management Decision Making in the Red River Basin", *Canadian Water Resources Journal*, 29(4):251-266.
125. Simonovic, S.P. and S. Ahmad, (2005) "Computer-based Model for Flood Evacuation Emergency Planning", *Natural Hazards*, 34(1):25-51.
126. Rehan, R., M. Nehdi, and S.P. Simonovic, (2005) "Policy Making for Greening the Concrete Industry in Canada: A Systems Thinking Approach", *Canadian Journal of Civil Engineering*, 32(1):1-15.
127. Simonovic, S.P. (2005). "Coping with Nature's Destructive Forces: Space-Based Resources Deliver Innovative Disaster Management Solutions", *Earth Imaging Journal*, May/June: 10-15.
128. Simonovic, S.P., and Nirupama, (2005) "A spatial multi-objective decision making under uncertainty for water resources management", *Journal of Hydroinformatics*, 7(2):117-133.
129. Cunderlik, J., and S.P. Simonovic, (2005) "Hydrologic Extremes in South-western Ontario under future climate projections", *Journal of Hydrologic Sciences*, 50(4):631-654.
130. Akter, T., and S.P. Simonovic, (2005) "Aggregation of Fuzzy Views of a Large Number of Stakeholders for Multi-Objective Flood Management Decision Making", *Journal of Environmental Management*, 77(2):133-143.

131. Ahmad, S., and S.P. Simonovic, (2005) "An artificial neural network model for generating hydrograph from hydro-meteorological parameters", *Journal of Hydrology*, 315(1-4):236-251.
132. El-Baroudy, I., and S.P. Simonovic, (2006) "Application of the Fuzzy Performance Measures to the City of London Water Supply System", *Canadian Journal of Civil Engineering*, 33(3):255-266.
133. Ahmad, S., and S.P. Simonovic, (2006) "An Intelligent Decision Support System for Management of Floods", *Water Resources Management Journal*, 20(3): 391-410.
134. Simonovic, S.P., and T. Akter, (2006) "Participatory Planning in the Red River Basin, Canada", *IFAC Annual Reviews in Control*, 30(2):183-192.
135. Nirupama and S.P. Simonovic, (2007) "Increase of Flood Risk due to Urbanization: A Canadian Example *Natural Hazards*, 40(1):25-41.
136. Cunderlik, J., and S.P. Simonovic, (2007) "Inverse Flood Risk Modeling Under Changing Climatic Conditions", *Hydrological Processes Journal*, 21(5):563-577.
137. Ahmad, S., and S.P. Simonovic, (2007) "A Methodology for Spatial Fuzzy Reliability Analysis", *Applied GIS Journal*, 3(1):1-42.
138. Simonovic, S.P., and S. Ahmad, (2007) "A New Method for Spatial Fuzzy Reliability Analysis of Risk in Water Resources Engineering Management", *Open Civil Engineering Journal*, 1:1-12.
139. Prodanovic, P. and S.P. Simonovic, (2007) "Impacts of Changing Climatic Conditions in the Upper Thames River Basin" *Canadian Water Resources Journal*, 32(4):265-284.
140. Simonovic, S.P., and R. Verma (2008) "A New Methodology for Water Resources Multicriteria Decision Making Under Uncertainty", *Physics and Chemistry of the Earth*, 33:322-329.
141. Fujihara, Y., S.P. Simonovic, F. Topaloglu, K. Tanaka, and T. Watanabe, (2008) "An Inverse Modeling Approach to Assess the Impacts of Climate Change in Seyhan River Basin, Turkey", *Hydrological Sciences Journal*, 53(6):1121-1136.
142. Karmakar, S., and S.P. Simonovic, (2008) "Bivariate Flood Frequency Analysis. Part 1: Determination of Marginals by Parametric and Nonparametric Techniques", *Journal of Flood Risk Management*, 1(4):190-200.
143. Karmakar, S., and S.P. Simonovic, (2009) "Bivariate Flood Frequency Analysis. Part 2: A Copula Based Approach with Mixed Marginal Distributions", *Journal of Flood Risk Management*, 2(1):1-13.
144. Simonovic, S., (2009) "A New Method for Spatial and Temporal Analysis of Risk in Water Resources Management", *Journal of Hydroinformatics*, 11(3-4):320-329.
145. Prodanovic, P. and S.P. Simonovic, (2010) "An Operational Model for Integrated Water Resources Management of a Watershed", *International Journal Water Resources Management*, 24(6):1161-1194, online publication August 2009, DOI 10.1007/s11269-009-9490-6.
146. Shrestha, R.R., and S.P. Simonovic, (2010) "Fuzzy Nonlinear Regression Approach to Stage – Discharge Analyses", *ASCE Journal of Hydrologic Engineering*, 15(1):49-56.
147. Lanhai, L., X., Honggang, X. Chen, and S. P. Simonovic, (2010) "Streamflow forecast and reservoir operation performance assessment under climate change", *International Journal of Water Resources Management*, 24(1):83-104.
148. Vasan, A., and S.P. Simonovic, (2010) "Optimization of Water Distribution Network Design Using Differential Evolution", *ASCE Journal of Water Resources Planning and Management*, 136(2):279-287.
149. Shrestha, R.R., and S.P. Simonovic, (2010) "A Fuzzy Set Theory Based Methodology for the Analysis of Measurement Uncertainties in River Discharge and Stage", *Canadian Journal of Civil Engineering*, 37:429-439.

150. Rajasekaram, V., G.A., McBean and S.P. Simonovic, (2010) "A Systems Dynamic Modelling Approach to Assessing Elements of a Weather Forecasting System", *CMOS Atmosphere-Ocean Journal*, 48(1):1-9.
151. Simonovic, S.P., (2010) "A new Methodology for the Assessment of Climate Change Impacts on the Watershed Scale", *Current Science*, 98(8):1047-1055.
152. Karmakar, S., S. P. Simonovic, A. Peck and J. Black, (2010) "A Web-based Information System for Flood Risk-Vulnerability Assessment", *Journal of Geographic Information System*, 2(3):129-146, available online at <http://www.scirp.org/journal/jgis/>.
153. Solaiman, T., and S.P. Simonovic, (2010) "Assessing NCEP-NCAR Hydroclimatic Data for Macroscale Hydrologic Modelling in South-Western Ontario, Canada", *Canadian Journal of Civil Engineering*, 37:611-623.
154. Eum, H-I., and S.P. Simonovic, (2010) "Integrated Reservoir Management System for Adaptation to Climate Change: The Nakdong River Basin in Korea", *Water Resources Management: An International Journal*, 24(13):3397-3417.
155. Davies, E.G.R, and S.P. Simonovic, (2010) "ANEMI: A New Model for Integrated Assessment of Global Change", the *Interdisciplinary Environmental Review* special issue on Climate Change, 11(2/3):127-161.
156. Solaiman, T., L. King, and S.P. Simonovic, (2010) "Extreme Precipitation Vulnerability in the Upper Thames River Basin: Uncertainty in Climate Model Projections", *International Journal of Climatology*, Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/joc.2244, 31(5), 2011.
157. Eum, H-I., S.P. Simonovic, and Y-O., Kim, (2010) "Climate Change Impact Assessment for the Nakdong River Basin, Korea", the *ASCE Journal of Hydrologic Engineering*, 15(10):772-785.
158. Ahmad, S., and S.P. Simonovic, (2011) "A Three Dimensional Fuzzy Methodology for Flood Risk Analysis", *Journal of Flood Risk Management*, 4(1):53-47, open access [A three-dimensional fuzzy methodology for flood risk analysis \(wiley.com\)](http://www.wiley.com).
159. Davies, E.G.R, and S.P. Simonovic, (2011) "Global water resources modeling with an integrated model of the social-economic-environmental system", *Advances in Water Resources*, 34:684-700.
160. Eum, H-I., D. Sredojevic, S. P. Simonovic, (2011) "Engineering Input for the Assessment of Flood Risk due to the Climate Change in the Upper Thames River Basin", *ASCE Journal of Hydrologic Engineering*, 16(7):608-612.
161. Eum, H-I., S.P. Simonovic, (2012) "Assessment on Temporal and Spatial Variability of Extreme Rainfall Events for the Upper Thames River Basin in Canada", *Hydrological Processes*, 26(4):485-499.
162. Ahmad, S., and S.P. Simonovic, (2012) "Spatial and Temporal Risk Assessment for Urban Flood Management" *Urban Water Journal*, 10(1):26-49.
163. Peck, A., P. Prodanovic, and S.P. Simonovic, (2012) "Rainfall intensity duration frequency curves under climate change: City of London, Ontario, Canada", *Canadian Water Resources Journal*, 37(3):177-189.
164. Jeevaragagam, P., and S.P. Simonovic, (2012) "Neural network approach to output updating for the physically-based model of the Upper Thames River watershed", *International Journal of Hydrology Science and Technology*, 2(3):306-324.
165. King, L., S. Irwin, R. Sarwar, A.I., McLeod and S.P. Simonovic, (2012) "The effects of climate change on extreme precipitation events in the Upper Thames River Basin: A comparison of downscaling approaches", *Canadian Water Resources Journal*, 37(3):253-274.

166. Eum, H-I., V. Arunachalam, and S.P. Simonovic, (2012) "Integrated Reservoir Management System for Adaptation to Climate Change, *Water Resources Management: An International Journal*, 26(13):3785-3802.
167. Solaiman, T.A., S. P. Simonovic, and D. H. Burn, (2012) "Quantifying Uncertainties in the Modelled Estimates of Extreme Precipitation Events at Upper Thames River Basin", *British Journal of Environment and Climate Change*, 2(2):180-215.
168. King, L., A.I. McLeod, and S.P. Simonovic, (2014) "Simulation of historical temperatures using a multisite, multivariate block resampling algorithm with perturbation", *Hydrologic Processes Journal*, 28(3):905-912.
169. Das, S., and S.P., Simonovic, (2012) "Assessment of uncertainty in flood flows under climate change - the Upper Thames River basin (Ontario, Canada)", *British Journal of Environment and Climate Change*, 2(4):318-338.
170. Nikolic, V., S.P. Simonovic, and D. Milicevic, (2013) "Analytical Support for Integrated Water Resources Management: Integral Consideration of Spatial and Temporal Variability Using Agent-Based Model", *Water Resources Management: An International Journal*, 27(2):401-417.
171. Schardong, A., S. P. Simonovic, and A. Vasan (2013) "A Multi-objective Evolutionary Approach to Optimal Reservoir Operation", *ASCE Journal of Computing in Civil Engineering*, 27(2):139-147.
172. Das, S., N. Millington, and S. P. Simonovic, (2013) "Distribution Choice for the Assessment of Design Rainfall for the City of London (Ontario, Canada) under Climate Change", *Canadian Journal of Civil Engineering*, 40(2):121-129.
173. Bowering, E., A. M. Peck, and S.P. Simonovic, (2013) "A flood risk assessment to municipal infrastructure due to changing climate part I: Methodology", *Urban Water Journal*, 11(1):20-30.
174. Teegavarapu, R., A.R. Ferreira, and S.P. Simonovic, (2013) "Fuzzy Multi-Objective Models for Optimal Operation of a Hydropower System", *Water Resources Research*, 49:1-14.
175. Peck, A., E. Bowering, and S.P. Simonovic, (2013) "A flood risk assessment to municipal infrastructure due to changing climate part II: Case study", *Urban Water Journal*, 11(7):519-531.
176. Akhtar, M.K., J., Wibe, S. P. Simonovic, and J., MacGee, (2013) "Integrated Assessment Model of Society-Biosphere-Climate-Economy-Energy System", *Environmental Modelling & Software*, 49:1-21.
177. Simonovic, S.P., and A. Peck, (2013) "Dynamic Resilience to Climate Change Caused Natural Disasters in Coastal Megacities - Quantification Framework", *British Journal of Environment and Climate Change*, 3(3): 378-401, open access <https://doi.org/10.9734/bjecc/2013/2504>
178. Vucetic, D., and S.P. Simonovic, (2013) "A new *Differential* Evolution algorithm based on fuzzy initialization and mutation strategy", *Journal of Hydroinformatics*, 15(4):1456-1473, open access <https://doi.org/10.2166/hydro.2013.118>
179. Jeevaragagam, P., and S.P. Simonovic, (2013) "Improvement of Streamflow Simulation for Gauged Site of Hydrological Model", *Malaysian Journal of Civil Engineering (MJCE)*, 25(2):239-253.
180. Owrangi, A.M., R. Lannigan, and S.P. Simonovic, (2014) "Interaction between Land Use Change, Flooding and Human Health in Metro Vancouver, Canada", *Natural Hazards*, 72(2):1219-1230.

181. Teegavarapu, R., and S.P. Simonovic, (2014) "Object Oriented Simulation of Multiple Hydropower Reservoir Operations using System Dynamics Approach", *Water Resources Management: An International Journal*, 28:1937-1958.
182. Srivastav, R.K., A. Schardong and S.P. Simonovic, (2014) "Equidistance Quantile Matching Method for Updating IDF Curves Under Climate Change", *Water Resources Management: An International Journal*, 28(9): 2539-2562.
183. Srivastav, R. and S.P. Simonovic, (2015) "Multi-site, multivariate weather generator using maximum entropy bootstrap", *Climate Dynamics*, 44(11):3431-3438, open access <https://link.springer.com/content/pdf/10.1007/s00382-014-2157-x.pdf>.
184. Srivastav, R. and S.P. Simonovic, (2014) "An Analytical Procedure for Multi-Site, Multi-Season Streamflow Generator using Maximum Entropy Bootstrapping", *Environmental Modelling & Software*, 59:59-75.
185. Schardong, A., S.P. Simonovic, and J.I.B. Garcia (2014) "O possível efeito de mudanças climáticas e suas incertezas sobre afluentes em sistemas de recursos hídricos", *REGA - Revista de Gestão de Água da América Latina*, 11(2):53-65, (In Portuguese).
186. Schardong, A., Srivastav, R., and S.P. Simonovic, (2014) "Atualização Da Equação Intensidade-Duração-Frequência Para A Cidade De São Paulo Sob Efeito De Mudanças Climáticas", *Revista Brasileira de Recursos Hídricos*, 19(4):176-185, (In Portuguese).
187. Neuwirth, C., A. Peck, and S.P. Simonovic, (2015) "Modeling structural change in spatial system dynamics: A Daisyworld example", *Environmental Modelling & Software*, 65:30-40, available online <http://www.sciencedirect.com/science/article/pii/S1364815214003521>
188. Owrangi, A.M., R. Lannigan, and S.P. Simonovic, (2015) "Mapping climate change-caused health risk for integrated city resilience modeling", *Natural Hazards*, 77(1):67-88.
189. Ahmad, S.S. and S. P. Simonovic, (2015) "Spatial and temporal analysis of flood risk - System dynamics and hydrodynamic modeling approaches", *International Journal of River Basin Management*, 13(4):443-461.
190. King, L., A. I. McLeod and S. P. Simonovic, (2015) "Improved weather generator algorithm for multisite simulation of precipitation and temperature", *Journal of the American Water Resources Association*, 51(5):1305-1320.
191. Schardong, A., and S.P. Simonovic, (2015) "A Coupled Self-adaptive Multi-objective Differential Evolution and Network Flow Algorithm Approach for Optimal Reservoir Operation," *ASCE Journal of Water Resources Planning and Management*, 141(10). Available online, [10.1061/\(ASCE\)WR.1943-5452.0000525](https://doi.org/10.1061/(ASCE)WR.1943-5452.0000525).
192. Gaur, A., and S.P. Simonovic, (2015) "Towards Reducing Climate Change Impact Assessment Process Uncertainty", *Environmental Processes Journal*, 2:275-290.
193. Gaur, A., and S.P. Simonovic, (2015) "Projected Changes in the Dynamics of Flood Hazard in the Grand River Basin, Canada", *British Journal of Environment and Climate Change*, 5(1):37-51. Available online at <http://www.sciencedomain.org/issue.php?iid=1109&id=10>.
194. Nikolic, V., and S.P. Simonovic, (2015) "Multi-method Modeling Framework for Support of Integrated Water Resources Management", *Environmental Processes Journal*, 2:461-483, DOI 10.1007/s40710-015-0082-6, available online.
195. Simonovic, S.P., (2015) "Systems Approach to Management of Disasters – A Missed Opportunity?", *IDRiM Journal*, 5(2):70-81. Available online at <http://idrimjournal.com/index.php/idrim/article/view/99>
196. Buttle, J.M. D. M. Allen, D. Caissie, B. Davison, M. Hayashi, D. L. Peters, J. W. Pomeroy, S. P. Simonovic, A. St-Hilaire, and P. H. Whitfield, (2016) "Flood processes in Canada: Regional and special aspects", *Canadian Water Resources Journal*, 44(1-2):7-30.

197. Mandal, S., P. Breach and S.P. Simonovic, (2016) "Uncertainty in Precipitation Projection under Changing Climate Conditions: A Regional Case Study ", *American Journal of Climate Change*, 5:116-132. Open access: <http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=65244>.
198. Simonovic, S.P., A. Schardong, D. Sandink, and R. Srivastav, (2016) "A Web-based Tool for the Development of Intensity Duration Frequency Curves under Changing Climate", *Environmental Modelling & Software Journal*, 81:136-153.
199. Mandal, S., R. K. Srivastav, and S.P. Simonovic, (2016) "Use of Beta Regression for Statistical Downscaling of Precipitation in the Campbell River Basin, British Columbia, Canada", *Journal of Hydrology*, 538:49-62.
200. Sandink, D., S.P. Simonovic, A. Schardong, and R. Srivastav, (2016) "A Decision Support System for Updating and Incorporating Climate Change Impacts into Rainfall Intensity-Duration-Frequency Curves: Review of the Stakeholder Involvement Process", *Environmental Modelling & Software Journal*, 84:193-209.
201. Simonovic, S.P. (2016) "From risk management to quantitative disaster resilience: a paradigm shift", *International Journal of Safety and Security Engineering*, 6(2):85-95, open access <https://www.witpress.com/elibrary/sse/6/2/1152>
202. Jia, B., S. P. Simonovic, P. Zhong, and Z. Yu, (2016) "A multi-objective optimization model for real-time multi-reservoir system flood mitigation operations", *Water Resources Management: An International Journal*, 30(10):3363-3387.
203. Irwin, S., A. Schardong, S.P. Simonovic, and N. Nirupama, (2016) "ResilSIM - A Decision Support Tool for Estimating Resilience of Urban Systems", *Water – special issue Hydroinformatics and Urban Water Systems*, 8(377):1-25.
204. Gaur, A., and S.P. Simonovic, (2017) "Assessing vulnerability of land-cover types to climate change using physical scaling downscaling model", *International Journal of Climatology*, 37(6): 2901-2912.
205. King, L.M., S., Keech, S.P., Simonovic, (2016) "An Investigation of the Factors and Components Involved in Dam Safety Flow Control Incidents, *Journal of Dam Engineering*, XXVII(1):1-19.
206. Irwin, S., R. Srivastav, S.P. Simonovic, and D.H. Burn, (2017) "Delineation of Precipitation Regions using Location and Atmospheric Variables: The role of Attribute selection", *Hydrological Sciences Journal*, 67(2):191-204.
207. Simonovic, S.P., and R. Arunkumar, (2016) "Comparison of static and dynamic resilience for a multi-purpose reservoir operation", *Water Resources Research*, 52(11): 8630-8649.
208. Breach, P., S.P. Simonovic, and Z. Yang, (2016) "Global Climate Model Selection for Analysis of Uncertainty in Climate Change Impact Assessments", *American Journal of Climate Change*, 5(4):502-525. Open access <http://dx.doi.org/10.4236/ajcc.2016.54036>
209. Gaur, A., and S. P. Simonovic, (2017) "Extension of Physical Scaling method and its application towards downscaling climate model based near surface air temperature", *International Journal of Climatology*, 37(8):3353-3366. Open access <https://rmets-onlinelibrary-wiley-com.proxy1.lib.uwo.ca/doi/pdfdirect/10.1002/joc.4921> .
210. Simonovic, S.P, A. Schardong, and D. Sandink, (2017) "Mapping Extreme Rainfall Statistics for Canada Under Climate Change Using Updated Intensity-Duration-Frequency Curves", *ASCE Journal of Water Resources Planning and Management*, 143(3): 04016078-1 - 04016078-12.

211. Simonovic, S.P., (2017) "Bringing Future Climatic Change into Water Resources Management Practice Today", *Water Resources Management Journal*, 31(10):2933-2950. Available online at <http://rdcu.be/tBqw>
212. Mandal, S., and S.P. Simonovic, (2017) "Quantification of uncertainty in the assessment of future streamflow under changing climate conditions", *Hydrological Processes Journal*, 31(11):2076-2094.
213. Irwin, S., S.P. Simonovic, and D.H., Burn, (2017) "Delineation of Precipitation Regions in Two Canadian Climate Regions: The Role of the Temporal Resolution of the Precipitation Data", *Hydrological Sciences Journal*, 62(13):2061-2071.
214. King, L.M., S.P. Simonovic, and D.N.D. Hartford, (2017) "Using system dynamics simulation and dynamic resilience as an improved approach to assessment of hydropower system safety", *Water Resources Research*, 53(8): 7148-7174 . DOI:10.1002/2017WR020834.
215. Gaur, A., and S.P. Simonovic, (2018) "Application of Physical Scaling towards downscaling climate model precipitation data", *Theoretical and Applied Climatology Journal*, 132:287-300, open access <https://doi.org/10.1007/s00704-017-2088-7> .
216. Gaur, A., M. Eichenbaum, and S.P. Simonovic, (2018) "Analysis and modelling of Surface Urban Heat Island in 20 Canadian Cities under Climate and Land-cover Change", *Environmental Management Journal*, 206:145-157, open access <https://doi.org/10.1016/j.jenvman.2017.10.002>.
217. Zhang, C., J. Kong, and S.P. Simonovic, (2018) "Restoration Resource Allocation Model for Enhancing Resilience of Interdependent Infrastructure Systems", *Journal of Safety Science*, 102:169-177, open access <https://doi.org/10.1016/j.ssci.2017.10.014> .
218. Gaur, A., A. Schardong, and S.P. Simonovic, (2018) "Effects of Global Warming on Precipitation Extremes: Dependence on Storm Characteristics", *Water Resources Management*, 32:2639–2648, available online <https://doi.org/10.1007/s11269-018-1949-x> .
219. Zhang, C., J. Kong and S. P. Simonovic, (2018) "Modeling joint restoration strategies for interdependent infrastructure systems", *PLOS ONE Journal*, open access, <https://doi.org/10.1371/journal.pone.0195727>.
220. Breach, P. A., and S.P. Simonovic, (2018) "Wastewater treatment energy recovery potential for adaptation to global change: an integrated assessment", *Environmental Management*, 61:624-636.
221. Kong, J., and S.P. Simonovic, (2018) "A Model of Infrastructure System Resilience", *International Journal of Safety and Security Engineering*, 8(3):377-389, open access <https://www.witpress.com/elibrary/SSE-volumes/8/3/2186>
222. Schardong, A., A., Gaur, and S.P. Simonovic, (2018) "Comparison of the theoretical Clausius-Clapeyron scaling and IDF_CC tool for updating Intensity-Duration-Frequency Curves under climate change for Canada", *ASCE Journal of Hydrologic Engineering*, 23(9): 04018036-1.
223. Gaur, A., A. Gaur, and S.P. Simonovic, (2018) "Future changes in flood hazard across Canada under changing climate", *Water (Feature Paper recognition), Special Issue Extreme Floods and Droughts under Future Climate Scenarios* ,10(1441):21, open access, <http://dx.doi.org/10.3390/w10101441>
224. Gaur, A. Gaur, A. and S.P. Simonovic (2019) "Modelling of Future Flood Risk Across Canada Under Climate Change", *WIT Transactions on Engineering Sciences*, 121:149-161, open access, <https://www.witpress.com/elibrary/wit-transactions-on-engineering-sciences/121/36682> .

225. Kong, J., S.P. Simonovic, and C. Zhang (2018) "Sequential hazards resilience of interdependent infrastructure system: A case study of Greater Toronto Area energy infrastructure system", *Risk Analysis*, 39(5):1141-1168, DOI: 10.1111/risa.13222.
226. Akhtar, M.K., S.P. Simonovic, J. Wibe, and J. MacGee, (2018) "Future realities of climate change impacts: An integrated assessment study of Canada, *International Journal of Global Warming*, 17(1):59-88.
227. Simonovic, S.P. (2018) "Performance-Based Water Resources Engineering – Simulation and Resilience", *Voda I Sanitarna Tehnika, (bilingual – Serbian and English)*, 47(2-3):5-13.
228. Gaur, A., A. Gaur, and S.P. Simonovic, (2019) "Future changes in the hazard and risk of flooding in Canada's most populated cities and flow regulation infrastructure", *Water, (Feature Paper recognition), the Special Issue on Extreme Floods and Droughts under Future Climate Scenarios*: 11(1), 63; doi:10.3390/w11010063., open access <http://www.mdpi.com/2073-4441/11/1/63/pdf>
229. King, L.M., A. Schardong, and S. P. Simonovic, (2019) "A combinatorial procedure to determine the full range of potential operating scenarios for a dam system", *Water Resources Management*, 33(4):1451-1466; <https://doi.org/10.1007/s11269-018-2182-3> , available online at <https://rdcu.be/bfxpZ>
230. Schardong, A., S.P. Simonovic, and H. Tong, (2019) "Use of Quantitative Resilience in Managing Urban Infrastructure Response to Natural Hazards", *International Journal of Safety and Security Engineering*, 9(1):13–25. Open access <http://www.witpress.com/journals>.
231. Mandal, S., R. Arunkumar, P. A. Breach, and S.P. Simonovic, (2019) "Reservoir operation under changing climate conditions: a system dynamic simulation approach", *ASCE Journal of Water Resources Planning and Management*, 145(5):04019016, available online <https://ascelibrary.org/doi/10.1061/%28ASCE%29WR.1943-5452.0001061>.
232. Kong, J., and S.P. Simonovic, (2019) "Probabilistic multi hazard resilience model of interdependent infrastructure system", *Risk Analysis*, 39(8):1843-1863, DOI: 10.1111/risa.13305 .
233. Stojkovic, M., and S.P. Simonovic, (2019) "Mixed general extreme value distribution for estimation of future precipitation quantiles using a weighted ensemble - Case study of the Lim river basin, Serbia", *Water Resources Management*, available online DOI 10.1007/s11269-019-02277-w.
234. Schardong, A. and S.P. Simonovic, (2019) "Application of Regional Climate Models for updating Intensity-Duration-Frequency Curves under climate change", *International Journal of Environment and Climate Change*, 9(5):311-330, open access [10.9734/ijecc/2019/v9i530117](https://doi.org/10.9734/ijecc/2019/v9i530117).
235. Stojkovic, M., and S.P. Simonovic (2019) "System dynamics approach for assessing the behavior of the Lim reservoir system (Serbia) under changing climate conditions", *Water*, 11:1620; doi:10.3390/w11081620, available online, <https://www.mdpi.com/2073-4441/11/8/1620/pdf> .
236. Zhang, C., J. Kong and S.P. Simonovic, (2019) "A Two-Stage Restoration Resource Allocation Model for Enhancing Resilience of Interdependent Infrastructure Systems", *Sustainability*, 11(5143):16, open access, <https://doi.org/10.3390/su11195143>
237. Kong, J., S.P. Simonovic, and C. Zhang, (2019) "Resilience Assessment of Interdependent Infrastructure Systems: A Case Study Based on Different Response Strategies", *Sustainability*, 11(23):6552; open access, <https://doi.org/10.3390/su11236552>

238. King, L., and S.P. Simonovic, (2020) "A Deterministic Monte Carlo simulation framework for dam safety flow control assessment", *Water*, 12:505; doi:10.3390/w12020505, open access, <https://www.mdpi.com/2073-4441/12/2/505/pdf>
239. Gaur, A., A. Schardong, and S.P. Simonovic, (2020) "Gridded Intensity – Duration - Frequency estimates across Canada", *ASCE Journal of Hydrologic Engineering*, 25(6): 05020006 .
240. Simonovic, S.P. (2020) "Systems Approach to Management of Water Resources – Toward Performance Based Water Resources Engineering", *Water*, Special Issue Application of the Systems Approach to the Management of Complex Water Systems, 12, 1208; doi: 10.3390/w12041208, open access, <https://www.mdpi.com/2073-4441/12/4/1208/pdf> .
(Editor's Choice recognition)
241. Schardong, A., S. P. Simonovic, A. Gaur, and D. Sandink (2020) "Web-based Tool for the Development of Intensity Duration Frequency Curves under Changing Climate at Gauged and Ungauged Locations", *Water*, Special Issue Extreme Value Analysis of Short-Duration Rainfall and Intensity–Duration–Frequency Models, 12, 1243; doi:10.3390/w12051243, open access, <https://www.mdpi.com/2073-4441/12/5/1243/pdf> .
242. Agrawal, N., M. Elliott, S. P. Simonovic (2020) "Flood risk and resilience: A case study of perception versus reality", *Water*, Special Issue Application of the Systems Approach to the Management of Complex Water Systems, 12, 1254; doi:10.3390/w12051254, open access, <https://www.mdpi.com/2073-4441/12/5/1254/pdf> . **(Editor's Choice recognition)**.
243. Jiang, H., S. P. Simonovic, Z. Yu, and W. Wang (2020) "A System Dynamics Simulation Approach for Environmentally Friendly Operation of a Reservoir System", *Journal of Hydrology*, Volume 587, August 124971, available online <https://doi.org/10.1016/j.jhydrol.2020.124971>
244. Bhatia, N., J.M. Sojan, S.P. Simonovic, and R. Srivastav (2020) "Role of Cluster Validity Indices in Delineation of Precipitation Regions", *Water*, 12, 1372; doi:10.3390/w12051372, open access, <https://www.mdpi.com/2073-4441/12/5/1372/pdf>
245. Li, X., S.P. Simonovic, S.P., L. Li, X. Zhang, and Q. Qin (2020) Performance and uncertainty analysis of a short-term climate reconstruction based on multi-source data in the Tianshan Mountains region, China. *Journal of Arid Land*, 12: 374–396. <https://doi.org/10.1007/s40333-020-0065-y>
246. Stojkovic, M. and S.P. Simonovic (2020) "Understanding the uncertainty of the Lim river basin response to changing climate", *ASCE Journal of Hydrologic Engineering*, 25(9) - 05020023.
247. Jiang, H., S. P. Simonovic, Z. Yu and W. Wang (2020) "An integrated model of the social-economic-environmental system for flood management of Three Gorges Reservoir", *ASCE Journal of Water Resources Planning and Management*, 146(7) - 05020009.
248. Mohanty, M. and S.P. Simonovic (2020) "Understanding dynamics of population flood exposure in Canada with multiple high-resolution population datasets", *The Science of Total Environment*, available online at https://authors.elsevier.com/a/1c5vT_17GgHrly .
249. Simonovic, S.P. and P. A. Breach (2020) "The Role of Water Supply Development in the Earth System", *Water*, Special Issue - Feature Papers of Water Resources Management, Policy and Governance, 12, 3349; doi:10.3390/w12123349, open access, <https://www.mdpi.com/2073-4441/12/12/3349/pdf> . **(Editor's Choice recognition)**.
250. Mohanty, M. and S.P. Simonovic (2021) "Fidelity of Reanalysis Datasets in Floodplain Mapping: Investigating Performance at Inundation Level over Large Regions", *Journal of*

- Hydrology*, Vol. 597, 125757, available online at <https://doi.org/10.1016/j.jhydrol.2020.125757>.
251. Simonovic, S.P., Z.W. Kundzewicz, and N. Wright (2021) "Floods and the COVID-19 pandemic—A new double hazard problem". *WIREs Water*. e1509, open access, <https://doi.org/10.1002/wat2.1509>
 252. Kong, J., C. Zhang, and S.P. Simonovic (2021) "Optimizing the resilience of interdependent infrastructures to regional natural hazards with combined improvement measures", *Reliability Engineering & System Safety*, Vol. 210, 107538, available online at <https://doi.org/10.1016/j.ress.2021.107538>
 253. Silva, D.F.; Simonovic, S.P.; Schar Dong, A.; Goldenfum, J.A. (2021) "Introducing Non-Stationarity into the Development of Intensity-Duration-Frequency Curves under a Changing Climate", *Water*, 13, 1008, open access <https://doi.org/10.3390/w13081008>. (**Editor's Choice recognition**).
 254. Simonovic, S.P. (2021) "Water resources management – towards performance based approach", *Water Sector of Russia: Problems, Technologies, Management*, No.2, 84-94.
 255. Breach, P.A. and S.P. Simonovic (2021) "ANEMI: A Tool for Global Change Analysis", *PLOS ONE*, 16(5): e0251489, open access <https://doi.org/10.1371/journal.pone.0251489>
 256. Mohanty, M. and S.P. Simonovic (2021) "Changes in floodplain regimes over Canada due to climate change impacts: observations from CMIP6 models", *Science of the Total Environment*, 792, 148323, open access <https://doi.org/10.1016/j.scitotenv.2021.148323>.
 257. Silva, F.D., S.P. Simonovic, A. Schar Dong, and J. A. Goldenfum (2021) "Assessment of nonstationary IDF curves under a changing climate: Case study of different climatic zones in Canada", *Journal of Hydrology: Regional Studies*, Vol.36, 100870, open access <https://doi.org/10.1016/j.ejrh.2021.100870>.
 258. Wang, W., B. Jia, S.P. Simonovic, S. Wu, Z. Fan, L. Ren (2021) "Comparison of Representative Heuristic Algorithms for Multi-Objective Reservoir Optimal Operation", *Water Resources Management*, 35:2741–2762, available online <https://link.springer.com/article/10.1007%2Fs11269-021-02864-w>
 259. Singh, J., S. Ghosh, S. P. Simonovic, and S. Karmakar (2021) "Identification of Flood Seasonality and Drivers across Canada", *Hydrological Processes*, 35(10):e14398. <https://doi.org/10.1002/hyp.14398>
 260. Xing, R., S. P. Simonovic, Q. Ju, Z. Hao, F. Yuan, and H. Gu (2021) "Simulation of the Heilongjiang River Ice Thickness and application of SD models on the river ice model", *Hydrology Research*, 52(6):1261-1279, open access <https://doi.org/10.2166/nh.2021.055>.
 261. Li, X., B. Zhang, R. Ren, L. Li, and S.P. Simonovic (2022) "Spatio-temporal heterogeneity of climate warming in the Chinese Tianshan mountainous region", *Water*, 14,199, open access <https://doi.org/10.3390/w14020199>.
 262. Jiang, H., S.P. Simonovic, Z. Yu, and W. Wang (2021) "Main Challenges Facing the Sustainable Development of the Yangtze Economic Belt and Its Implications for Global Emerging Economies", *Environmental Research Communications*, 3(11) 115005, open access <https://iopscience.iop.org/article/10.1088/2515-7620/ac35bd>
 - 263.

Papers Submitted for Review for Publication in Refereed Journals

1. Jiang, H., S. P. Simonovic, and Z. Yu "ANEMI_Yangtze: An Integrated Assessment Model of the Yangtze Economic Belt - Model Description", ACCEPTED, *Geoscientific Model Development (GMD)*.
2. Simonovic, S.P. and A. Peck "Resilience to Climate Change Caused Flooding – Metro Vancouver Case Study", ACCEPTED, *River*.
3. Daniele F. Silva, D.F., J. A. Goldenfum, S. P. Simonovic, and F. Dornellesa "Impacts of Climate Change on the Intensity-Duration-Frequency Curves in Two Urbanized Areas of Brazil Using the High-resolution Eta Model", submitted to, *Urban Water Journal*.
4. Zhang, C., J. Kong, and S.P. Simonovic "Resilience-based Restoration Strategies for Critical Infrastructure under Uncertain Disaster Scenarios", submitted to, *Reliability Engineering and System Safety*.
5. Latif, S., and S.P. Simonovic "Compounding joint impact of rainfall, storm surge and river discharge on coastal flood risk: An approach based on 3D Fully Nested Archimedean Copulas", submitted to, *Environmental Earth Sciences*.
6. Mohit, M.P., and S.P. Simonovic "A comprehensive approach for floodplain mapping through identification of hazard using publicly available data sets over Canada," submitted to, *Water*.
7. Latif, S., and S.P. Simonovic "Trivariate probabilistic assessments of the compound flooding vents using Semiparametric Fully Nested Archimedean (FNA) copula approach", submitted to, *Journal of Hydrology*.
8. Jeevaragam, P. and S. P. Simonovic "Output Updating of Physically Based Model for Upper Thames River Watershed with Neural Network", ACCEPTED, *Journal of Hydrology and Hydromechanics*
- 9.

10. ***Discussions and Invited Commentaries in Refereed Journals***

1. Simonovic, S. P. (1987), "Comment on Evaluation of the Reliability Programming Reservoir Model by J.B. Strycharczyk and J.R. Stedinger", *Water Resources Research*, 23(9):1795-1797.
2. Simonovic, S.P. (1993), "Challenges of the Changing Profession", *ASCE Journal of Professional Issues in Engineering*, 119(1):84-87.
3. Simonovic, S.P. (1997), "IDRISI for Windows 2", *Journal of Geographic Information and Decision Analysis* (electronic journal), http://publish.uwo.ca/~jmalczew/gida_2/Idrisi/Idrisi.htm, 1(2): 151-157.
4. Simonovic, S.P. (1998), "Hydrology for Engineers, Geologists and Environmental Professionals", *Journal of Hydrology*, book review, 210:282-284.
5. Simonovic, S.P. (1999), "Learning from the Past, Developing Ideas for the Future: IWRA'21", *Water International*, editorial, 24(2): 81-85, DOI: [10.1080/02508069908692143](https://doi.org/10.1080/02508069908692143).
6. Simonovic, S.P. (2002), "Complexity and Rock Gardening", *Journal of Japan Society for Hydrology and Water Resources*, 15(2):108-109.
7. Simonovic, S.P., and K. Juliano (2002), "Response to comments of D. Dobson and R. Coley on 'The Role of Wetlands During Low Frequency Flooding Events in the Red River Basin'", *Canadian Water Resources Journal*, 27(1):105-117.
8. Simonovic, S.P. (2002), "The Decision is Clear with Clark Labs' Idrisi32 release 2", *GeoSpatial Solutions*, 12(5):46-48.
9. Simonovic, S.P. (2002), "Non-structural Measures for Water Management", *Water International*, editorial, 25(1): 1-2.
10. Elshorbagy, A., U.S. Panu, and S.P. Simonovic (2002), "Reply: Comment on 'Analysis of cross-correlated chaotic streamflows' by B. Sivakumar", *Hydrological Sciences Journal*, 47(3):529-532.
11. Simonovic, S.P., V. Rajasekaram, and K.D.W. Nandalal (2004). "Reply: Comment on 'Computer Support for Implementation of a Systemic Approach to Water Conflict Resolution' by S.K. Tanaka et al.", *Water International*, 29(3): 404-405.
12. Simonovic, S.P. (2005), "The Four Sides of Water Quality Degradation – The Hydrologic Cost of Non-Action", invited commentary, *Water Front*, 4: 6-10.
13. Simonovic, S.P., and E.G.R. Davies (2006), "Are we modeling impacts of climate change properly?", invited commentary, *Hydrological Processes Journal*, 20:431-433.
14. Simonovic, S.P. (2006), "Role of civil engineering in mitigating impacts of natural disasters", invited commentary, *Information Arakawa*, April, 3 (in Japanese).
15. Burrell, B., and S.P. Simonovic, (2006) "Hazards and Disasters", *Canadian Civil Engineer*, invited commentary, 23(2):18-20.
16. Simonovic, S.P. (2008), "Risk and Reliability Analysis: A Handbook for Civil and Environmental Engineers", *Canadian Water Resources Journal*, book review, 33(3):307-308.
17. Simonovic, S.P. (2009), "Water Resources Management: A Systems View", *Water Front*, invited article, 1:12-13.
18. Simonovic, S.P. (2009), "Managing flood risk, reliability and vulnerability", *Journal of Flood Risk Management*, editorial, 2:230-231.
19. Simonovic, S.P. (2011), "Two new floods, climate change, and ethics", *Journal of Flood Risk Management*, editorial, 4(3):141-142.
20. Chavoshian, A., K. Takeuchi and S.P. Simonovic (2012), "Floods: From Risk to Opportunity", *Journal of Flood Risk Management – Virtual Special Issue*, editorial, 1.
21. Simonovic, S.P. (2013), "The winds of change", *International Innovation*, February, 36-37.

22. Simonovic, S.P. (2014), "Through Hell and High Water", *Journal of Flood Risk Management*, editorial, 7(1): 1-2.
23. Simonovic, S.P. (2015), "Water resources systems analysis through case studies: Data and models for decision making", *Canadian Water Resources Journal*, 40(2):232-233.
24. Simonovic, S.P. (2015), "Water Resources Management: A new View under a Changing Climate", in *Vode Srbije u Vremenu Prilagodjavanja na Klimatske Promene*, Ministarstvo poljoprivrede i zastite zivotne sredine – Agencija za zastitu zivotne sredine, 186 pp., 7-14 (in Serbian).
25. Simonovic, S.P. (2015), "New type of flooding", *Journal of Flood Risk Management*, editorial, 8(3): 193-195.
26. Simonovic, S.P. and A. Schardong (2016), "Sixth International Conference on Flood Management (ICFM6): Floods in a changing environment, part 1", *Journal of Flood Risk Management*, editorial, 8:195.
27. Simonovic, S.P. (2016), "Managing Flood Risk, Reliability and Vulnerability", *Journal of Flood Risk Management*, editorial, 2(4):230–231.
28. Samuels, P., J.W. Hall, B.E. Montz, J. Schanze, S.P. Simonovic and K. Takara (2017) "Looking back and looking forward", *Journal of Flood Risk Management*, editorial, 10(1):3-4.
29. Simonovic, S.P. (2017), "Adapting to Climate Change: A Web Based Intensity-Duration-Frequency (IDF) Tool", *Geotechnical news*, 35(3):40-42.
30. Simonovic, S.P. (2019), "From risk to resilience of flood management — a new way to assessing adaptation of flood management to globally changing conditions", *Chinese Journal of Flood and Drought Management*, 2(29):6-8 (in Chinese).
31. Simonovic, S.P. (2019), "Transboundary Hydro-Governance: From Conflict to Shared Management", (book review). Edited by Jacques Ganoulis and Jean Fried. Springer: Cham, Switzerland, 2018, 222 pages. ISBN 978-3-319-78624-7; eBook ISBN 978-3-319-78625-4. *Water*, Special Issue "Application of the Systems Approach to the Management of Complex Water Systems". Available online: Abstract: <https://www.mdpi.com/2073-4441/11/10/2011>, PDF <https://www.mdpi.com/2073-4441/11/10/2011/pdf>.
32. Simonovic, S.P., Z. Kundzewicz, X. Cheng, and N.G. Wright (2020), "Doubled crises – Flooding in a time of pandemic", *Chinese Journal of Flood and Drought Management*, 7(30):1-4 (in Chinese).
33. Simonovic, S.P. (2020), "Application of the Systems Approach to the Management of Complex Water Systems", *Water*, Special Issue "Application of the Systems Approach to the Management of Complex Water Systems". Available online: Abstract: <https://www.mdpi.com/2073-4441/12/10/2923>, PDF: <https://www.mdpi.com/2073-4441/12/10/2923/pdf>.
34. Simonovic, S.P. (2021) IWRA 50th anniversary interview, *Water International*, 46:3, 299-302. Available online: <https://doi.org/10.1080/02508060.2021.1921938>
35. Simonovic, S.P. (2021), Systems approach and performance-based water resources management, *Water International*, 46:7-8, 1224-1235. Available online: <https://doi.org/10.1080/02508060.2021.1995257>
36. Simonovic, S.P. (2022), Flood Map Viewer, *Water News, CWRA*, 41(1):22. Available online: <https://cwra.org/en/resources/water-news-online/>

Refereed Papers in Published Conference Proceedings

1. Djordjevic, B., S. Jovanovic, S. Opricovic and S.P. Simonovic (1975), "Simulation Model of the Velika Morava River Basin for the Design of the Multipurpose Reservoir System", Symposium on the Application of Mathematical Models in Hydrology and Water Resources Systems, AIHR-IAHS Publ. No. 115, pp. 85-94, Bratislava, CSSR.
2. Djordjevic, B., S. Opricovic and S.P. Simonovic (1976), "Optimal Long-term Control of a Cascade of Multi-purpose Reservoirs", Proceedings of the Water Resources Symposium, Vol. 1, pp. 76-90, Hradec Kralove, CSSR.
3. Orlob, G.T. and S.P. Simonovic (1981), "Reservoir Operation for Water Quality Control", International Symposium on Real-Time Operation of Hydrosystems, Proceedings, Vol. II, pp. 599-617, Waterloo, Canada.
4. Simonovic S.P. and G.T. Orlob (1981), "Optimization of New Melones Reservoir Operation for Water Quality Management", in Environmental Systems Analysis and Management, ed. S. Rinaldi, pp. 311-327.
5. Simonovic, S.P. (1982), "Risk Optimization Planning Tool for Management of Water Resources Systems With Reservoirs", 9th International Symposium: Development and Applications of Operations Research Techniques, Herceg Novi, Yugoslavia, Proceedings, pp. 437-445 (in Serbian).
6. Simonovic, S.P. (1983), "Computer Software for Risk Optimization in Water Resources", Proceedings of the Third International Conference - Engineering Software, pp. 60-88, London.
7. Bruk, S., R. Cavor and S.P. Simonovic (1983), "Analysis of Storage Recovery by Sediment Flushing", Proceedings of the Second International Symposium on River Sedimentation, Vol. 1, pp. 918-926, Nanjing, China.
8. Simonovic, S.P. (1983), "A Multiobjective Reliability Programming Method for Water Resources Planning", Proceedings, X. International Symposium: Development and Applications of the Operations Research Techniques, pp. 437-445, Herceg Novi, Yugoslavia (in Serbian).
9. Simonovic, S.P. (1983), "Input Data for Stochastic Model for Sizing the Multipurpose Reservoir", Proceedings of the Yugoslavian Symposium on Engineering Hydrology, Vol. 1, pp. 34-45, Split, Yugoslavia (in Serbian).
10. Prohaska S., S.P. Simonovic and T. Petkovic (1983), "Application of the Non-linear Mathematical Model for Regional Interpolation of Hydro-meteorological Data", Proceedings of the Yugoslavian Symposium on Engineering Hydrology, Vol. 1, pp. 64-78, Split, Yugoslavia (in Serbian).
11. Simonovic, S.P. (1984), "Combined Simulation and Optimization Approach for Water Resources Planning", Proceedings XI International Symposium: Development and Applications of the Operations Research Techniques, Vol. 1, pp. 733-744, Herceg Novi, Yugoslavia (in Serbian).
12. Miloradov, Lj. and S.P. Simonovic (1984), "Monthly Reliabilities in Reservoir Management by Chance Constrained Model", Proceedings XI International Symposium: Development and Applications of the Operations Research Techniques, Vol. 1, pp. 459-471, Herceg Novi, Yugoslavia (in Serbian).
13. Orlob, G.T. and S.P. Simonovic (1984), "Risk Analysis in Water Quality Control", ASCE Specialty Conference, Coeur d'Alene, Idaho, August.
14. Simonovic, S.P., B.Karan, Z. Krunic and B. Ivancevic (1984), "Interactive Software for Flood Damage Computation", HYDROSOFT 84, International Conference, Portoroz, Yugoslavia (in Serbian)

15. Milivojcevic, M. and S.P. Simonovic (1985), "A Practical Approach to the Integration of Engineering Software Packages", Proceedings of the 4th International Conference Engineering Software IV, pp. 1/13-1/24, London.
16. Miloradov, Lj. and S.P. Simonovic (1985), "Computer Package for Reservoir Yield Estimation", Proceedings of the 4th International Conference Engineering Software IV, pp. 4/17-4/32, London.
17. Simonovic, S.P. and Lj. Miloradov (1985), "Optimization in Water Resources Master Planning", Proceedings of IFAC Conference on Systems Analysis Applied to Water and Related Land Resources, Lisboa, Portugal.
18. Simonovic, S.P. and D. Jakovljevic (1986), "Decision Support Systems in Water Resources Planning - Yugoslavian Experience", Proceedings of the International Conference on Decision Support Systems in Water Resources, Oslo, Norway.
19. Andjelic, M., B. Karan, Z. Jovanovic and S.P. Simonovic (1986), "Water Resources Information System for the Republic of Serbia", Proceedings of the Second Yugoslavian Water Resources Congress, Vol. II, pp. 622-635, Ljubljana, Yugoslavia (in Serbian).
20. Simonovic, S.P. and S. Canovic (1986), "Comprehensive Approach for Solving Water Resources Problems of the Republic of Serbia", Proceedings of the Second Yugoslavian Water Resources Congress, Vol. III, pp. 1102-1110, Ljubljana, Yugoslavia (in Serbian).
21. Simonovic, S.P. (1986), "Water Resources Management", Proceedings of the Second Yugoslavian Water Resources Congress, Vol. V, pp. 2072-2080, Ljubljana, Yugoslavia (in Serbian).
22. Savic, D.A., and S.P. Simonovic (1989), "A Pilot Intelligent Decision-Support System for Reservoir Optimization", in Computerized Decision Support Systems for Water Managers, ed. by J.W. Labadie, et al, ASCE, pp. 478-490.
23. Reznicek, K.K., and S.P. Simonovic (1989), "Practical Application of Successive Linear Programming for Reservoir Operations of Manitoba Hydro", IAHS Publication No. 180, Closing the Gap Between Theory and Practice, Edited by D.P. Loucks, pp. 251-263.
24. Simonovic, S.P. (1989), "Expert System Design of an Intelligent Decision Support for Surface Water Quantity Data Management", HYDROCOMP 89, Computational Modelling and Experimental Methods in Hydraulics, edited by C. Maksimovic and M. Radojkovic, pp. 383-394, Elsevier.
25. Savic, D.A., and S.P. Simonovic (1989), "Introduction of Fuzzy Reasoning in Intelligent Decision Support for Reservoir Analysis", HYDROCOMP 89, Computational Modelling and Experimental Methods in Hydraulics, edited by C. Maksimovic and M. Radojkovic, pp. 404-415, Elsevier.
26. Reznicek, K.K., and S.P. Simonovic (1989), "Real-Time Reservoir System Operations at Manitoba Hydro - Knowledge-Based System Support", HYDROCOMP 89, Computational Modelling and Experimental Methods in Hydraulics, edited by C. Maksimovic and M. Radojkovic, pp. 342-353, Elsevier.
27. Nagy, A., K.D. Barlisen, D.H. Burn, and S.P. Simonovic (1989), "Toward an Expert System for Improving the Operations Planning in Manitoba Hydro", Proceedings of the 16 Annual ASCE Water Resources Specialty Conference, Sacramento, USA, pp. 477-481.
28. Barlisen, K., D. Burn, and S.P. Simonovic (1989), "Knowledge Acquisition for the Engineering Expert System", Proceedings of the 4th Canadian Seminar on Systems Theory for Civil Engineering, pp. 55-63, Winnipeg.
29. Simonovic, S.P. (1989), "Challenges of Changing Profession", Proceedings of the 4th Canadian Seminar as Systems Theory for Civil Engineering, pp. 20-28, Winnipeg.

30. Reznicek, K.K., D.A. Cormie, P.E. Barritt-Flatt, and S.P. Simonovic (1989), "Hydropower Optimization in Practice and Research", Proceedings of the 4th Canadian Seminar on Systems Theory for Civil Engineering, pp. 64-74, Winnipeg.
31. Simonovic, S.P. and B.A. Kapalka (1990), "The use of an Expert System for Teaching Civil Engineering Students", ASCE National Forum on Education and Continuing Development for Civil Engineers, Las Vegas, USA, pp. 344-350.
32. Simonovic, S.P. (1990), "Issues in Developing an Expert System for Flow Measurement", in The Hydrological Basis for Water Resources Management ed. by J.L. Anderson, IAHS Publ. No. 99, pp. 101-109.
33. Reznicek, K.K., S.P. Simonovic and C.R. Bector (1990), "Complex Short-term Operation of a Single Multipurpose Reservoir - A Goal Programming Approach", ASAC , Vo. 11, Part 2, pp. 49-60, Whistler (**award for the best Conference paper**).
34. Simonovic, S.P. and J. Grahovac (1991), "Evolution of a Decision Support System for Reservoir Operations: Manitoba Hydro Case Study", in Decision Support Systems: Water Resources Planning, ed. by Loucks D.P. and J.R. da Costa, NATO ASI Series G, Vol. 26, Springer - Verlag, New York, pp. 485-526.
35. Simonovic, S.P. (1991), "Coping With Changing Objectives in Managing an Existing Multipurpose Reservoir", in Hydrology of Natural and Manmade Lakes, ed. G. Schiller et al, IAHS Publ. No. 206, pp. 181-189.
36. Simonovic, S.P. (1991), "A Knowledge Based Advisory System for Single Multipurpose Reservoir Management", VII World Congress on Water Resources, IWRA, Special Sessions, Vol. 1, SS3 pp. 23-30, Rabat, Morocco.
37. Douglas, G.G., and S.P. Simonovic (1992), "The Design of a Computer System for Developing Stage-Discharge Rating Curves in Stable Channels", in Hydrology: It's contribution to Sustainable Development, Canadian Hydrology Symposium, pp. 257-276, Winnipeg.
38. Bender, M.J., D.A. Cormie, and S.P. Simonovic (1992), "Development of Long Range Flow Forecasting Capabilities for a Large Multi-Reservoir System", in Hydrology: It's contribution to Sustainable Development, Canadian Hydrology Symposium, pp. 390-406, Winnipeg.
39. Simonovic, S.P. (1993), "Flood Control Management by Integrating GIS with Expert Systems", in Application of Geographic Information Systems in Hydrology and Water Resources, eds. K. Kovar and P. Nachtnebel, IAHS Publication no. 211, pp. 61-72.
40. Kundzewicz, A.W., D. Rosbjerg, S.P. Simonovic, and K. Takeuchi (1993), "Extreme Hydrological Events in Perspective", IAHS Publication No. 213, pp. 1-11.
41. Simonovic, S.P. and R. Srinivasan (1993), "Explicit Stochastic Approach for Planning the Operation of Reservoirs for Hydropower Production", IAHS Publication No. 213, pp. 349-361.
42. Simonovic, S.P. (1994), "An Advisory System for the Calibration of ARNO Rainfall-Runoff Model", Proceedings, Annual Conference of the Canadian Society for Civil Engineering, Vol. 1, pp. 212 - 221, Winnipeg.
43. Bender, M.J., and S.P. Simonovic (1994), "Consensus Decision Support in Environmental Conflict Resolution", Proceedings, International Symposium on Water Resources Planning in a Changing World, pp III 63 - 72, Karlsruhe, Germany.
44. Simonovic, S.P. (1994), "Decision Support for Sustainable Water Resource Management", Proceedings, International Symposium on Water Resources Planning in a Changing World, pp. III 3- 11, Karlsruhe, Germany.
45. Simonovic, S.P. (1994), "Decision Support for Sustainable Water Resources Development", Proceedings, Annual Conference of the Canadian Society for Civil Engineering, Vol. 1, pp. 739 - 749, Winnipeg.

46. Simonovic, S.P. and E. Todini (1994) "Use of an Expert System for Calibration of Rainfall-Runoff Models: ARNO Model Case Study", Proceedings of the Second European Conference on Advances in Water Resources Technology and Management, edt. Y Tsakiris and M.A. Santos, A.A. Balkema. Publ., Rotterdam, pp. 59-64.
47. Srinivasan, R., and S.P. Simonovic (1994) "Incorporating Uncertainty in Energy Demand in a Reservoir Reliability Planning Model", in Effective Environmental Management for Sustainable Development, ed. by Hipel, K.W. and L. Fang, Water Science and Technology Library, Vol. 10/4, Kluwer Academic Publishers, Dordrecht, pp. 397-410.
48. DeLotto, P., P.G. Fenaroli, I. Saccardo, and S.P. Simonovic (1995) "An Approach for the Delineation of Hydrographic Basins in Plain Areas", in Modelling and Management of Sustainable Basin-Scale Water Resource Systems, ed. by Simonovic, S.P., Z.W. Kundzewicz, D. Rosbjerg, E.K. Takeuchi, IAHS Publication No.231, IAHS Press, Wallingford, pp. 197-207.
49. Bender, M.J., and S.P. Simonovic (1995) "Proponent and Stake-Holder Interaction in Collaborative Water Resources Project Planning", in Modelling and Management of Sustainable Basin-Scale Water Resource Systems, ed. by Simonovic, S.P., Z.W. Kundzewicz, D. Rosbjerg, E.K. Takeuchi, IAHS Publication No. 231, IAHS Press, Wallingford, pp. 159-169.
50. Abu-Zeid, K., K. Kheireldin, and S.P. Simonovic (1996)"Stakeholder Participation in Modelling Water Resources Planning in Egypt: A Workshop Experience", in Proceedings of 49th CWRA Annual Conference, Rational and Sustainable Development of Water Resources, Vol.1, No.6, pp.406-414.
51. Huang, Z., X. Bai, D. Long, L.F. Sawatsky, R. Reidinger, and S.P. Simonovic (1996) "Economic Benefits of Optimization Modelling for Improving the Sihuan Basin Water Management in China", in Proceedings of 49th CWRA Annual Conference, Rational and Sustainable Development of Water Resources, Vol.1, No.6, pp.386-395.
52. Kotula, A.S., and S.P. Simonovic (1996) "New Method for the Design of a Sustainable Reservoir", in Proceedings of the International Conference on Water Resources and Environment Research, Water Resources Research Center, DPRI Kyoto University, Vol. II, pp.697-704.
53. Simonovic, S.P. (1996) "Intelligent Decision Support Systems for Sustainable Management of Water Resources", in Proceedings of the International Workshop on Systems Intelligence for Water Resources Management, Japan Society of Hydrology and Water Resources, pp.1-22.
54. Simonovic, S.P., (1997) "Risk in Sustainable Water Resources", in Sustainability of Water Resources Under Increasing Uncertainty, edited by Rosbjerg, D., et al, IAHS Publication No.240, pp.3-17.
55. Bender, M.J., and S.P., Simonovic (1997) "A Prototype Collaborative Planning Support System for Hydroelectric Development", in Proceedings of the IEEE SMC '97, Computational Cybernetics and Simulation, Orlando, pp. 797-801.
56. Simonovic, S.P., (1997) "Evaluating Sustainability of Large Scale Water Resources Developments", in Proceedings of the International Conference on Large Scale Water Resources Development in Developing Countries: New Dimensions and Problems, Katmandu, Nepal, KL38-KL45.
57. Simonovic, S.P. (1998), "Sustainable Water Resources Management", 26th Italian National Congress of Hydraulics and Hydraulic Works: Water Engineering and Sustainable Development, Proceedings, Vol.V, pp.39-52, Catania, Italy, September.
58. Ilich, N., R. Drury, P. Godman, and S.P. Simonovic, (2000) "Operation of Bighorn/Brazeau hydropower system of Transalta utilities Corporation", in Proceedings of the XIII International Conference on Computational Methods in Water Resources – Computational Methods in Water

- Resources Volume 2, ed. Bentley, L.R., J.F. Sykes, C.A. Brebia, W.G. Gray and G.F. Pinder, Balkema, Rotterdam, 991-998.
59. Bender, M., R. Oswald, M. Vandersluis, M. Deutschman, and S.P. Simonovic, (2000) "Red River Basin Canadian Flood Management Virtual Database", in Proceedings of the Joint Conference on water Resources Engineering and Water Resources Planning and Management, ASCE, CD ROM, Minneapolis, USA, August.
 60. Birkenstock, T., P. Bourget, and S.P. Simonovic, (2000) "Information/Data Needs for Floodplain Management", in Proceedings of the Joint Conference on water Resources Engineering and Water Resources Planning and Management, ASCE, CD ROM, Minneapolis, USA, August.
 61. Simonovic, S.P., (2001) "Measures of sustainability and their utilization in practical water management planning", in *Regional Management of Water Resources*, editors A. Schuman et al, IAHS Publ. no. 268, 3-16.
 62. Teegavarapu, R. S. V., and S.P. Simonovic, (2001) "Optimal operation of water resource systems: Trade-offs between modeling and practical solutions", in *Integrated Water Resources Management*, editors M.A. Marino and S.P. Simonovic, IAHS Publ. no. 272, 257-263.
 63. Simonovic, S.P., (2003) "Assessment of Water Resources Through System Dynamics Simulation: From Global Issues to Regional Solutions", in *Proceedings of the 36th International Conference on System Sciences, Modeling Nonlinear Natural and Human Systems*, Abstract book: pp.93, CD Rom full paper.
 64. Simonovic, S.P., (2004) "Sustainable Floodplain Management – Participatory Planning in the Red River Basin, Canada", in *Proceedings of the Workshop on Modelling and Control for Participatory Planning and managing Water Systems*, IFAC, 9 pages, CD Rom.
 65. Simonovic, S.P., (2005) "The Disaster Resilient City: A Water Management Challenge", in *Sustainable Water Management: Solutions for Large Cities*, editors D. Savic et al, IAHS Publ. no 293, 3-13.
 66. Simonovic, S.P., and R. Verma, (2005) "A New Method for Generating Fuzzy Pareto Optimal Set for Multicriteria Decision Making in Water Resources, in *Innovative Perspectives of Integrated Water Resources Management Under a Changing World*, Proceedings of special seminar, XXXI IAHR Congress, Seoul, Korea, September 11-16, pp.69-78 and Proceedings of *International Workshop on Integrated River Basin Management Under Changing World*, Water Resources Research Center, Kyoto University, Japan, March (2006), pp.139-146.
 67. Davies, E.G.R., and S.P. Simonovic, (2006) "Modelling Social-Economic-Climatic Feedbacks for Policy Development", Proceedings of the *Climate Change: Engineering Challenges and Solutions in the 21st Century*, The Engineering Institute of Canada, Ottawa, May 10-12, CD-ROM paper 1568981407.
 68. Simonovic, S.P., P. Prodanovic and M. Helsten, (2007) "Inverse Modelling of Climatic Change Impacts in the Upper Thames River Basin", Proceedings of the *18th Canadian Hydrotechnical Conference-Challenges for Water Resources Engineering in a Changing World*, August 21-24, CD-ROM paper HYD-001, 11 pages.
 69. Cunderlik, J.M., and S.P. Simonovic, (2007) "Hydrologic Models for Inverse Climate Change Impact Modeling", Proceedings of the *18th Canadian Hydrotechnical Conference-Challenges for Water Resources Engineering in a Changing World*, August 21-24, CD-ROM paper HYD-002, 9 pages.
 70. Prodanovic, P. and S.P. Simonovic, (2007) "Integrated Water Resources Modelling of the Upper Thames River Basin", Proceedings of the *18th Canadian Hydrotechnical Conference-Challenges for Water Resources Engineering in a Changing World*, August 21-24, CD-ROM paper HYD-004, 10 pages.

71. Davies, E.G.R. and S.P. Simonovic, (2007) "Social-Economic-Climatic Feedbacks and the Global Hydrological Cycle", *Proceedings of the 18th Canadian Hydrotechnical Conference-Challenges for Water Resources Engineering in a Changing World*, August 21-24, CD-ROM paper HYD-013, 10 pages.
72. Ahmad, S.S. and S.P. Simonovic, (2007) "A New Method for Spatial and Temporal Analysis of Flood Risk", *Proceedings of the 18th Canadian Hydrotechnical Conference-Challenges for Water Resources Engineering in a Changing World*, August 21-24, CD-ROM paper HYD-059, 10 pages.
73. Simonovic, S.P., (2007) "Fuzzy reliability analysis of floods: an approach for integration of objective and subjective risks", in *Reducing the Vulnerability of Societies to Water Related Risks at the Basin Scale*, editors A. Schumann and M. Pahlow, IAHS Publ. no. 317, 362-372.
74. Simonovic, S.P., (2007) "Integrated Water Resources Management – An Operational View", in *Approvvigionamento e distribuzione idriche: Esperienze, ricerca ed innovazione*, editors M. Frachini and P. Bertola, Morlacchi Editore publisher, Perugia, Italy, 17-32.
75. Simonovic, S.P., (2008) "Managing Water Resources: Methods and Tools for a Systems Approach", in *Planning and Management of Water Resources Systems*, *Proceedings of the International Conference*, editor R. Kastori, Academy of Sciences and Arts of Vojvodina, Novi Sad, Serbia, 37-47.
76. Davies, E.G.R., M.K. Akhtar, G.A., McBean and S.P. Simonovic, (2009) "Integrated Assessment, Water Resources, and Science-Policy Communication, *Proceedings of 2nd Climate Change Technology Conference*, May 12-15, CD-Rom paper 45, 13 pages, ISBN 0-919784-94-1.
77. Mujumdar, P.P., G. Dandy, Y-O, Kim, T. Kojiri, E. Kolokytha, D. Shen, S.P. Simonovic, and N. Van de Giesen, (2009) "Implications of Climate Change for Water Resources Management – Case Studies", *CD Rom Proceedings, 33rd IAHR Congress: Water Engineering for a Sustainable Environment*, 393-404, ISBN 978-94-90365-01-1.
78. Eum, H., V. Arunachalam, and S.P. Simonovic, (2009), "Integrated Reservoir Management for Adaptation to Climate Change – Upper Thames River Basin Case Study", *CD Rom Proceedings, 33rd IAHR Congress: Water Engineering for a Sustainable Environment*, 749-756, ISBN 978-94-90365-01-1.
79. Solaiman, T., and S.P. Simonovic, (2009), "NCEP-NCAR Reanalyses Hydroclimatic Data for Rainfall-Runoff Modeling on a Watershed Scale", *CD Rom Proceedings, 33rd IAHR Congress: Water Engineering for a Sustainable Environment*, 1100-1107, ISBN 978-94-90365-01-1.
80. Peck, A., E. Bowering, and S.P. Simonovic, (2010), "Assessment of Climate Change Risk to Municipal Infrastructure: A City of London Case Study", *11th International Environmental Specialty Conference*, 2010 CSCE Annual General Meeting and Congress - Engineering a Sustainable World, *CD Rom Proceedings: EN-11-1 – EN-11-9*.
81. King, L. M., A.I., McLeod, S.P., Simonovic, (2012), "A multisite, multivariate K-Nearest Neighbour weather generator for the simulation of historical and future climate data", *Proceedings of Elements 2012 Conference*, Canadian Water resources Association and Canadian Geophysical Union, June 5-8, Banff, Alberta, pp.5.
82. Jeevaragagam, P., and S.P. Simonovic, (2012) "Streamflow Forecasting for Gauged and Ungauged Sites of a River Basin Using Neural Network", *Proceedings, 5th Engineering Conference (Engineering Towards Change - Empowering Green Solutions)*, July 10-12, Kuching, Sarawak, D-06, 283-288.
83. Nikolic, V.V., S. P. Simonovic, and D. B. Milicevic, (2013), "Generic Modeling Framework for Integrated Water Resources Management", *Proceedings of the 21st CSCE Hydrotechnical Specialty Conference*, Canadian Society for Civil Engineering, May 14-17, 2013, Banff, Alberta, pp.10.

84. Owrangi, A., R. Lannigan, and S.P. Simonovic, (2013), "Quantifying Uncertainty in Assessment Of Climate Change Caused Health Impacts for Coastal Megacities", *Proceedings of the 21st CSCE Hydrotechnical Specialty Conference*, Canadian Society for Civil Engineering, May 14-17, 2013, Banff, Alberta, pp.10.
85. Simonovic, S.P. (2014), "Floods in a Changing Climate: Risk Management", *Proceedings of the 10th Sino-American Technology and Engineering Conference – SATEC*, May 25-27, Suzhou, China, CD ROM Proceedings, pp. 91-100.
86. Simonovic, S.P. (2014), "Modeling Resilience to Climate Change in Space and Time", *Proceedings of DailyMeteo.org/2014 Conference*, June 26-2, Belgrade, Serbia, CD ROM Proceedings, pp. 30-34, ISBN 978-86-7518-169-9.
87. Srivastav, R., and S.P. Simonovic (2014), "Generating Spatio-Temporal Maximum Entropy Ensembles Using R", *Proceedings of DailyMeteo.org/2014 Conference*, June 26-2, Belgrade, Serbia, CD ROM Proceedings, pp. 60-63, ISBN 978-86-7518-169-9.
88. Gaur, A., and S.P. Simonovic (2014), "Potential Use of an Open-Source Software R as a Tool for Performing Climate Change Impact Studies", *Proceedings of DailyMeteo.org/2014 Conference*, June 26-2, Belgrade, Serbia, CD ROM Proceedings, pp. 64-67, ISBN 978-86-7518-169-9.
89. Simonovic, S. P. (2014), "From Flood Risk Management to Quantitative Flood Disaster Resilience: A Paradigm Shift", *Electronic Proceeding of the 6th International Conference on Flood Management*, pp.8, September 16-18, Sao Paulo, Brazil.
90. Schardong, A., R. Srivastav, and S.P. Simonovic (2014), "Generalized Tool for Updating Intensity-Duration-Frequency Curves Under Climate Change", *Electronic Proceeding of the 6th International Conference on Flood Management*, pp.9, September 16-18, Sao Paulo, Brazil.
91. Owrangi, A., R. Lannigan, and S.P. Simonovic, (2014), "An Approach to Developing a Composite Measure for Human Health as an Input to a System Dynamics Model for Investigating City Resilience", *Electronic Proceedings of the 6th International Conference on Flood Management*, pp.9, September 16-18, Sao Paulo, Brazil.
92. Simonovic, S.P., and R. Arunkumar, (2016), "Quantification of resilience to water scarcity, a dynamic measure in time and space", *Proceedings, 7th International Water Resources Management Conference of IAHS ICWRS*, 373:13–17, May 18-20, Bochum, Germany.
93. King, L., S.P. Simonovic, and D. Hartford (2016), "A hydropower infrastructure simulation model for assessment of resilience", *Proceedings, CSCE Annual Meeting: Resilient Infrastructure*, 1-1 – 2-10, June 1-4, London, Canada.
94. Kong, J., and S. P. Simonovic (2016), "An original model of infrastructure system resilience", *Proceedings, CSCE Annual Meeting: Resilient Infrastructure*, NDM515-1 – NDM515-10, June 1-4, London, Canada.
95. Simonovic, S.P. (2016), "From risk management to quantitative disaster resilience - a paradigm shift", *Proceedings, RISK2016*, 1-12, May 25-27, Crete, Greece.
96. Gaur, A., A. Gaur, and S.P. Simonovic, (2018), "Modelling of Future Flood Risk Across Canada Under Climate Change", *11th International Conference on Risk Analysis and Hazard Mitigation Risk Analysis 2018, Proceedings, RISK2018*, 144-156, June 6 - 8 June 2018, Seville, Spain.
97. Schardong, A., S.P. Simonovic and H. Tong (2018), "Use of Quantitative Resilience in Managing Urban Infrastructure Response to Natural Hazards", *11th International Conference on Risk Analysis and Hazard Mitigation Risk Analysis 2018, Proceedings, RISK2018*, 1-14, June 6 - 8 June 2018, Seville, Spain.
98. Simonovic, S.P. (2020), "Quantitative Resilience – Decision Criterion for Management of Disasters", *Security Crises in the 21st Century and How to Manage Them - Social and Security*

Aspects, Volume 1, Proceedings of the international scientific conference held online, 23-35, October 13 and 14, 2020. ISBN: 978-86-902810-1-5, 23-35.

99. Simonovic, S.P. (2020), "Role of climate in global change – from Milankovitch's time until end of the 21st century", *Proceedings of the Online Symposium – Milutin Milankovic: The Past 100 Years, and the Future*, November 18, 2020. ISBN-978-86-900893-3-8, 226-253.
100. Jeevaragagam, P. and S. P. Simonovic (2021), "Output Updating of Physically Based Model for Upper Thames River Watershed With Neural Network", *Proceedings of the Virtual 5th International Conference on WaterResources – ICWR 2021*, November 23-25, University of Technology Malaysia, 81310 Johor Bahru, Johor, Malaysia, paper 79, pp.11.

Published Papers in Conference Proceedings - Refereed by Abstract

1. Djordjevic, B., S. Opricovic and S.P. Simonovic (1976), "Optimal Design of a System of Reservoirs for the Water Supply of a Thermal Power Plant", *Informatica 76*, Vol. 6, pp. 103, Bled, Yugoslavia (in Serbian).
2. Simonovic, S.P. and S. Prohaska (1976), "The Method of Multiple Non-Linear Standardized Correlation (VNC)", *Informatica 76*, Vol. 6, pp. 104, Bled, Yugoslavia (in Serbian).
3. Simonovic, S.P. (1982), "Risk Optimization in Water Resources - New Approach", *Proceedings 4th International Conference on Finite Elements in Water Resources*, Hanover, FR Germany.
4. Simonovic, S.P., B. Djordjevic and Lj. Miloradov (1984), "Hydro-power Potential Analysis of the Hydrosystem Danube-Tisza-Danube, the Hydrosystem Severna Backa, and the Nera River", *Proceedings XIV Symposium on Rational Energy Production*, Vol. 2, pp. 111-125, Budva, Yugoslavia (in Serbian).
5. Simonovic, S.P. and I.C. Goulter (1987), "Systems in Engineering Education -- One More Idea", *Proceedings of 3rd Canadian Seminar on Systems Theory for the Civil Engineering*, Ecole Polytechnique de Montreal, Vol. 1, pp. 29-54, Montreal, June.
6. Simonovic, S.P. (1988), "Long-Term Water Resources Planning - Numerical Aspects", *Proceedings Sixth IWRA World Congress*, Ottawa, May, Vol. II, 112-120
7. Burn, H.D. and S.P. Simonovic (1988), "Improvement in Modelling Real-Time Reservoir Operation", *Proceedings Sixth IWRA World Congress*, Ottawa, May, Vol. II, 788-796.
8. Goulter, I.C. and S.P. Simonovic (1988). "The need for systems in first year engineering", *Sixth Canadian Conference on Engineering Education*, Winnipeg, May, pp. 422-440.
9. Simonovic, S.P. (1988), "Long-term Water Resources Planning - Problems in Communication With the Decision-Makers", *International Workshop on Water Awareness in Societal Planning and Decision-Making*, Skokloster, Stockholm Region, Sweden, June, pp. 89-92.
10. Grahovac, J. and S.P. Simonovic (1990), "Expert System for Budget Preparation and Optimal Operation of an Interconnected Utility", in *Optimizing the Resources for Water Management*, ed. R.M. Khambilvardi and T.C. Gooch, ASCE, pp. 48-52.
11. Reznicek, K.K. and S.P. Simonovic (1990), "Estimating the Energy Rate Function for Hydro Power Production Optimization", in *Optimizing the Resources for Water Management*, ed. R.M. Khanbilvardi and T.C. Gooch, ASCE, pp. 34-38.
12. Simonovic, S.P. (1990), "Knowledge-based Systems as a Supporting Tool for Sustainable Development of Water Resources", *Canadian Operations Research Society, National Conference*, Ottawa, Canada.
13. Simonovic, S.P. (1991), "Issues in the Use of an Expert System for Teaching", *ASCE 18th National Conference on Water Resources Planning and Management*, *Proceedings*, pp.558-563.
14. Simonovic, S.P. (1994), "Sustainable Management of Existing Reservoirs", *ASCE 21st Annual Conference on Water Resources Planning and Management*, *Proceedings*, pp. 242- 245.
15. Simonovic, S.P. (1994), "Intelligent Decision Support System for Stage-Discharge Analysis", *ASCE 21st Annual Conference on Water Resources Planning and Management*, *Proceedings*, pp. 283-286.
16. Simonovic, S.P., and R. Srinivasan (1994), "Explicit Stochastic Modelling of a Reservoir for Hydropower Production", *ASCE 21st Annual Conference of Water Resources Planning and Management*, *Proceedings*, pp. 368- 371.
17. Simonovic, S.P., B.J. Lence, and D.H. Burn (1995), "Sustainability Criteria: An Application to the Hydropower Industry", in *ASCE 22nd Annual Conference of Water Resources Planning and*

Management-Integrated Water Resources Planning for the 21st Century, ed. by M.F. Domenica pp. 173-176.

18. Ou, G., X. Bai, Z. Long, Z. Guo, Z. Huang, D. Long, Y. Yang, and S. P. Simonovic (1995), "A Modelling Approach for Sustainable Management of the Large Siyu Drainage System in China", 48th Annual Conference of Canadian Water Resources Association, Proceedings, pp. 721-734.
19. Ilich, N., and S.P. Simonovic (1996), "Optimal Design of Water Resources in the Sustainable Development Framework with the Lombok Case Study", Proceedings of Joint Seminar on Optimization of Water Allocation for Sustainable Development, Jakarta, Indonesia, pp.1-337-1-354.
20. Bender, M.J., and S.P. Simonovic, (1996), "Consensus as the Measure of Sustainability", in Proceedings of the North American Water and Environment Congress and Destructive Water, ed. by C. T., Bathala, ASCE.
21. Kroeger, H.J., and S.P. Simonovic, (1996), "Risk as a Sustainable Development Criteria", in Proceedings of the North American Water and Environment Congress and Destructive Water, ed. by C. T., Bathala, ASCE.
22. Bender, M.J., and S.P. Simonovic, (1996), "A Systems Approach for Collaborative Decision Support in Water Resources Planning", in Proceedings of the IEEE Society of Social Implications of Technology, ISTAS '96: Technical Expertise and Public Decisions, Princeton, N.J.
23. Simonovic, S.P., and R.J. Tkach, (1997), " Spatial Decision Making for Improved Flood Management in the Red River Basin", in Proceedings of the IX Congress of International Water Resources Association (IWRA), Montreal, Canada.
24. Simonovic, S.P., (1997), "Role of Computer-based Tools in Water Resources Conflict Resolution", in Proceedings of the IX Congress of International Water Resources Association (IWRA), Montreal, Canada.
25. Simonovic, S.P. (1998), "Opportunities for Sustainable Management of Water Resources", in Proceedings of the International Workshop on Barriers to Sustainable Management of Water Quantity and Quality, Wuhan, China, 1-11.
26. Simonovic, S.P. (1998), "Criteria for social evaluation of flood management decisions", in Proceedings of the International Conference on World Water Resources at the Beginning of the 21st Century, Water a looming crisis?, ed. H. Zebidi, IHP-V Technical Documents in Hydrology, No.18, 337-342.
27. Elshorbagy, A., U. Panu, and S.P. Simonovic (1999), "Investigations into Group Based Data In-filling Techniques", in Proceedings of the 14th Hydrotechnical Specialty Conference, CSCE, Volume II, 337-348.
28. Juliano, K. and S.P. Simonovic (1999), "Procedures for Developing a Digital Elevation Model to aid in the Analysis of the Impacts of Wetlands on Flood Control in the Red River Valley of Manitoba", in Proceedings of the 14th Hydrotechnical Specialty Conference, CSCE, Volume II, 717-726.
29. Ahmad, S., and S.P. Simonovic (1999), "Role of a Coupled GIS-2 D Hydrodynamic Model in a Decision Support System for Flood Management", in the Proceedings of the Canadian Water Resources Association Conference – Red River Flooding – "Decreasing our Risk", VII-1- VII-15.
30. Simonovic, S.P. and P. Huang (1999), "Prototype Virtual Database Development for Management of Floods in the Red River Basin", in the Proceedings of the Canadian Water Resources Association Conference – Red River Flooding – "Decreasing our Risk", IX-1- IX-12.
31. Simonovic, S.P. (2000), "WorldWater – A Tool for Testing Water Limits", in the Proceedings of the Xth World Water Congress, IWRA, CD ROM, Melbourne, Australia.

32. Teegavarapu, R. and S.P. Simonovic (2000), "System Dynamics Simulation Model for Operation of Multiple Reservoirs ", in the Proceedings of the Xth World Water Congress, IWRA, CD ROM, Melbourne, Australia.
33. Hasanbasri, M., and S.P. Simonovic (2000), "A simulation-optimization model for optimal design of subsurface barrier to control seawater intrusion", in the Proceedings of the international conference on groundwater research, 'Groundwater 2000', edt. Bjerg, P.L., P. Engesgaard, and T.D. Krom, Balkema, Rotterdam, 495-496.
34. Malley, D.F., H.B. Taylor and S.P. Simonovic (2000), "Flood plains require special integration of human health and aquatic ecosystem health: Case of the 1997 flood in the Red River of the North", Poster presentation at the EcoSummit 2000: Integrating the sciences – Understanding and solving environmental problems in the 21st Century, Halifax, Nova Scotia, Canada, June.
35. Ahmad, S., and S.P. Simonovic (2000), "Dynamic modeling of flood management policies", in the Proceedings of the 18th International Conference of the System Dynamics Society, 'Sustainability in the Third Millennium', Bergen, Norway, July.
36. Ahmad, S., and S.P. Simonovic (2000), "Analysis of Flood Management Policies Using System Dynamics", in the Proceedings of the 2000 American Institute of Hydrology International Conference, 'Atmospheric, Surface and Subsurface Hydrology and Interactions', North Carolina, November, pp.15.
37. Elshorbagy, A., U.S. Panu, and S.P. Simonovic (2000), "Group-Based Estimation of Missing Data in Chaotic Hydrologic Time Series", in the Proceedings of the 2000 American Institute of Hydrology International Conference, 'Atmospheric, Surface and Subsurface Hydrology and Interactions', North Carolina, November, pp.25-26.
38. Teegavarapu, R.S.V., A. Elshorbagy, and S.P. Simonovic (2000), "Disaggregation of Hydrological Time Series Using Neural Networks", in the Proceedings of the 2000 American Institute of Hydrology International Conference, 'Atmospheric, Surface and Subsurface Hydrology and Interactions', North Carolina, November, pp.51.
39. Ahmad, S., and S.P. Simonovic (2000), "Behavioral model for evacuation", ICLR, The University of Western Ontario, A workshop on Extreme Events and the Assessment of Risk *Dealing with disasters*, London, November, pp.8.
40. Simonovic, S.P. (2000), "Systems Approach to Natural Hazard Management", ICLR, The University of Western Ontario, A workshop on Extreme Events and the Assessment of Risk *Dealing with disasters*, London, November, pp.8.
41. Ahmad, S., and S.P. Simonovic (2001), "Modeling dynamic processes in space and time: A spatial system dynamics approach", in "Bridging the Gap", *Proceedings of the ASCE world water and environmental resources congress*, edt. Don Phelps and Gerald Shelke, Orlando, May, pp.17.
42. Ahmad, S., and S.P. Simonovic (2001), "Developing runoff hydrograph using artificial neural networks", in "Bridging the Gap", *Proceedings of the ASCE world water and environmental resources congress*, edt. Don Phelps and Gerald Shelke, Orlando, May, pp.12.
43. Ahmad, S., and S.P. Simonovic (2001), "Modeling human behavior for evacuation planning: A system dynamics approach", in "Bridging the Gap", *Proceedings of the ASCE world water and environmental resources congress*, edt. Don Phelps and Gerald Shelke, Orlando, May, pp.14.
44. Simonovic, S.P., and L. Li (2001), "Impact of climate variability and change on the reliability of complex flood protection systems", *Proceedings of the 15th Canadian Hydrotechnical Conference*, Victoria, British Columbia, May-June, paper H46, pp.8.
45. Ahmad, S., and S.P. Simonovic (2001), "Overland flow algorithms: Performance comparison of 1-D and 2-D hydrodynamic modeling approaches", *Proceedings of the 15th Canadian Hydrotechnical Conference*, Victoria, British Columbia, May-June, paper H2, pp.8.

46. Simonovic, S.P. (2002), "Understanding risk management", *Proceedings of the 30th Annual conference of CSCE*, Montreal, Quebec, June, paper GE108, pp.12.
47. Simonovic, S.P. (2002), "Dynamic modeling of water resources: From global issues to regional solutions", *Proceedings of 2002 Seminar on Water Resources, Disaster Prevention Research Institute, Kyoto University*, 14k-01, November, pp. 1-14.
48. Rajasekaram, V., S.P. Simonovic, and K.W. Nandalal (2002), "A Conflict Resolution Support System for Use in Water Resources Management", *Proceedings of the International Conference "From Conflict to Co-operation in International Water Resources Management: Challenges and Opportunities"*, UNESCO, Delft, The Netherlands, November, pp. 204-212 (available from http://webworld.unesco.org/water/wwap/pccp/cd/pdf/conference_proceedings/conf_proceedings.pdf).
49. Simonovic, S.P. (2002), "Water Resources Conflict and Climatic Change", *Proceedings of the International Conference "From Conflict to Co-operation in International Water Resources Management: Challenges and Opportunities"*, UNESCO, Delft, The Netherlands, November, pp. 121-130.
50. Simonovic, S.P. and V. Rajasekaram (2003), "Assessment of Canadian Water Resources Through System Dynamics Simulation", *CD Proceedings, 16th Hydrotechnical Conference*, CSCE, Burlington, October, WR1, pp. 1-10.
51. Cunderlik, J.M., and S.P. Simonovic (2004), "Inverse Modeling of Water Resources Risk and Vulnerability to Changing Climatic Conditions", *Proceedings, 57th Canadian Water Resources Association Annual Congress: Water and climate change: Knowledge for better adaptation*, CWRA, Montreal, June.
52. Nirupama, and S.P. Simonovic (2004), "Is Urbanization Increasing Urban Flooding: An Ontario Assessment", *Proceeding, 14th World Conference on Disaster Management - Sponsored by Canadian Center for Emergency Preparedness (CCEP)*, Toronto, June.
53. Simonovic, S.P. (2005), "Dynamic Modeling of Canadian Troubled Waters", *CD Proceedings, 17th Canadian Hydrotechnical Conference*, CSCE, Edmonton, August, pp.10.
54. Rajasekaram, V., and S.P. Simonovic (2005), "Impact of Regional Water Quality on Canadian Development Sectors", *CD Proceedings, 17th Canadian Hydrotechnical Conference*, CSCE, Edmonton, August, pp.8.
55. Prodanovic, P., J. Cunderlik, and S.P. Simonovic (2005), "Synthetic Storm Model for Climate Change Impact Modelling", *CD Proceedings, 17th Canadian Hydrotechnical Conference*, CSCE, Edmonton, August, pp.8.
56. Davies, E.G.R., and S.P. Simonovic (2005), "Climate Change and the Hydrological Cycle", *CD Proceedings, 17th Canadian Hydrotechnical Conference*, CSCE, Edmonton, August, pp.10.
57. Long, D., S. Wu, S.P. Simonovic, Z.Huang, and G. Ou (2005), "New Tools for Development Planning of a Complex Hydraulic System", *CD Proceedings, 17th Canadian Hydrotechnical Conference*, CSCE, Edmonton, August, pp.11.
58. Simonovic, S.P., D. Long, and X. Liu (2005), "Water Resources Management – Changing Landscape", *Proceedings, 2005 Yellow River Forum*, Zhenghou, China, pp.19.
59. El-Baroudy, I., S. Ahmad, and S.P. Simonovic (2006), "Fuzzy reliability analysis for the evaluation of water resource systems performance", *CD Proceedings, 59th Annual Conference – CWRA*, paper C4, pp.10.
60. Prodanovic, P., and S.P. Simonovic (2006), "Systems approach to the assessment of climatic change in a small river basin", *23rd Conference of the Danube Countries, CD Proceedings, Hydrological processes*, paper 31, pp.13.

61. Davies, E.G.R., and S.P. Simonovic (2006), "The importance of social-economic-climatic feedbacks for water resources management", 23rd Conference of the Danube Countries, *CD Proceedings*, Water resources management, paper 12, pp.14.
62. Ramesh S. V. Teegavarapu and S. P. Simonovic, (2007) "Operation of Hydrosystems under Uncertain Decision Making Environments", *CD Proceedings*, World Environmental and Water Resources Congress, Tampa, Florida, ASCE, Edited by K. C. Kabbes, 7 pages.
63. Simonovic, S.P., (2007), "A new method for spatial and temporal analysis of risk in water resources management", *CD Proceedings HIW07*, Advances in Hydroinformatics 2007, Section C, Paper C3, 10 pages.
64. Ahmad, S., and S.P. Simonovic, (2008), "2-D hydrodynamic modeling for evaluation of flood risk in space and time", *CD Proceedings*, 4th International Symposium on Flood Defence: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 30, 9 pages.
65. Karmakar, S. , and S.P. Simonovic, (2008), "Bivariate flood frequency analysis using Copula with parametric and nonparametric marginals", *CD Proceedings*, 4th International Symposium on Flood Defence: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 50, 11 pages.
66. Davies, E.G.R., and S.P. Simonovic, (2008), "Extreme flooding, policy development, and a society - biosphere - climate feedback model", *CD Proceedings*, 4th International Symposium on Flood Defense: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 104, 9 pages.
67. Peck, A., J. Black, S. Karmakar, and S.P. Simonovic, (2008), "A web-based flood information system", *CD Proceedings*, 4th International Symposium on Flood Defense: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 131, 9 pages.
68. Prodanovic, P., and S.P. Simonovic, (2008), "Intensity duration frequency analysis under changing climatic conditions", *CD Proceedings*, 4th International Symposium on Flood Defence: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 142, 8 pages.
69. Akhtar, M.K., and S.P. Simonovic, (2008), "Improvement of the flood forecasting and warning system of Bangladesh by advanced technological development", *CD Proceedings*, 4th International Symposium on Flood Defense: Managing Flood Risk, Reliability and Vulnerability, edited by S.P. Simonovic, and P. Bourget, Paper 145, 9 pages.
70. Davies, E. G.R., and S.P. Simonovic, (2008), "Water Resources and Global Change Modelling", *Proceedings*, International Symposium on Hydrology, Hydraulics and Water Resources Aspects on Global Water Issues for 30th Anniversary of Water Research Center, Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan, November, pp. 81-101.
71. Schardong, A., S. P. Simonovic, J. I. B. Garcia, and R. L. L. Porto, (2009), "Comparação de Algoritmos Evolucionários na Calibração de Modelo Chuva-vazão – SMAP", *Proceedings of XVIII Simpósio Brasileiro de Recursos Hídricos*, November 22 to 26, Campo Grande, Brasil, pp.20. (in Portuguese)
72. Ahmad, S., and S.P. Simonovic, (2011), "A Three-Dimensional Fuzzy Methodology for River Flood Risk Analysis", *CD Proceedings*, 2011 CSCE Annual General meeting and Conference, *Engineers – Advocates for Future Policy*, June, Ottawa, Paper HY-060, 11 pages.
73. Ahmad, S., and S.P. Simonovic, (2011), "Decision Support for Flood Risk Management", *CD Proceedings*, 2011 CSCE Annual General meeting and Conference, *Engineers – Advocates for Future Policy*, June, Ottawa, Paper CN-168, 11 pages.

74. Jeevaragagam, P., and S. P. Simonovic (2012), "Streamflow Forecasting for Gauged and Ungauged Sites of a River Basin Using Neural Network ", Proceedings of *EnCon 2012, 5th Engineering Conference, "Engineering Towards Change - Empowering Green Solutions"* 10-12 July, Kuching Sarawak, Malaysia, 6 pages.
75. Owrangi, M.A., R. Lannigan, S.P. Simonovic, and G. McBean (2012), "Health impacts of floods due to climate change in coastal cities", Proceedings of *Transcending Borders- Towards Global Health*, 27-29 April, London, 1 page.
76. Nikolic, V., S.P. Simonovic (2013), "Decision Support for Integrated Water Resources Management – Spatial and Temporal Variability", Proceedings of *Pete Loucks Symposium, ASCE – EWRI World Environmental & Water Resources Congress*, Cincinnati, Ohio, May, 1 page.
77. Davies, E., and S.P. Simonovic (2013), "Global Water Resources Modeling With an Integrated Model of the Social-Economic-Climate System: A Summary, Proceedings of the *International Conference on Climate Change Impacts of Water Resources*, October, Belgrade, Serbia, 25-30.
78. Owrangi, A., R. Lannigan, and S.P. Simonovic (2013), "Mapping climate change-caused health risk for the city of Metro Vancouver", GIS Day – Discovering the World Through GIS, Western University, November, London, 1 page.
79. Schardong, A., Simonovic, S. P. (2013) "Avanços em algoritmos evolucionários para otimização multi-objetivo". In: *Anais xx simpósio brasileiro de recursos hídricos*, Bento Gonçalves - RS, Brasil. ISSN 2318-0358, 12 pages (in Portuguese)
80. Schardong, A., Simonovic, S. P. (2013), "Possíveis impactos de mudanças climáticas em curvas intensidade duração frequência". In: *Anais xx simpósio brasileiro de recursos hídricos*, Bento Gonçalves - RS, Brasil. ISSN 2318-0358, 9 pages (in Portuguese)
81. Agam, N., and S.P. Simonovic, (2014), "Development of Inundation Maps for the Vancouver Coastline under a Changing Climate", *Proceedings*, IDRIIM 2014 Conference - Building Disaster Resilient Communities, 30 October – 1 November 2014, Western University, London, Ontario, Canada. **(second place - award for the best Conference paper)**.
82. Schardong, A., and S.P. Simonovic, (2014), "Water availability stress under climate change in Sao Paulo Metropolitan Area- Brazil", *Proceedings*, IDRIIM 2014 Conference - Building Disaster Resilient Communities, 30 October – 1 November 2014, Western University, London, Ontario, Canada.
83. Simonovic, S.P., (2015), "Managing Water Resources Under Global Change: Methods and Tools for a Systems Approach", *Proceedings*, 9th World Congress: Water Resources Management in a Changing World – Challenges and Opportunities, EWRA, Istanbul, Turkey, June 10-13, 3 pages.
84. Jia, B.Y., S. P. Simonovic, P. A. Zhong, and Z. B. Yu, (2015), "Improved Knowledge-Based Cooperative Particle Swarm Optimization for Optimal Reservoir Flood Control Operation", *Proceedings*, 22nd Canadian Hydrotechnical Conference, Water for Sustainable Development : Coping with Climate and Environmental Changes, Montreal, Quebec, Canada, April 29 – May 2, 2015, 12 pages.
85. Peck, A., and S.P. Simonovic (2015), "Climate change influenced riverine flooding and sea level rise on Canada's west coast", Proceedings, 22nd Canadian Hydrotechnical Conference, Water for Sustainable Development : Coping with Climate and Environmental Changes, Montreal, Quebec, Canada, April 29 – May 2, 2015, 8 pages.
86. Ahmad, S., and S.P. Simonovic (2015), "Dynamic River Modelling for Flood Risk Management", Proceedings, 22nd Canadian Hydrotechnical Conference, Water for Sustainable Development : Coping with Climate and Environmental Changes, Montreal, Quebec, Canada, April 29 – May 2, 2015, 10 pages.

87. Bhatia, N., S. Irwin, R. K. Srivastav, S. P. Simonovic (2015), "Role of Clustering Indices in Delineation of Precipitation Regions", *Proceedings*, AGU-CGU Joint Assembly, Montreal, Canada, May 3-7, 1 page.
88. Owrangi, A., R. Lannigan, S. P. Simonovic (2017), "Development of a spatiotemporal composite measure of climate change-related human health effects in urban environments: a Metro Vancouver study", *The Lancet*, 389(S16), Special Issue, Inaugural Planetary Health/GeoHealth Annual Meeting, April 28-30, Boston, MA, USA.
89. Simonovic, S.P., A. Schardong, S. Irwin, and A. Nirupama (2017)," ResilSIM—A Decision Support Tool for Estimating Resilience of Urban Systems to Flooding", *Book of Abstracts*, 7th International Conference on Flood Management, September 5-7, 2017, Leeds, UK, pp. 90.
90. Simonovic, S.P., and A. Peck (2017), "Dynamic Resilience to Climate Change Caused Natural Disasters in the Greater Vancouver, Canada", *Book of Abstracts*, 7th International Conference on Flood Management, September 5-7, 2017, Leeds, UK, pp. 184.
91. Nirupama, A., S. P. Simonovic, and M. Elliott (2017), "Disaster Adaptiveness, Resilience, and Capacity Building by Accounting for People's Perception: A Canadian Case Study", *Book of Abstracts*, 7th International Conference on Flood Management, September 5-7, 2017, Leeds, UK, pp. 169.
92. Xing, R., S.P. Simonovic, and Z. Hao (2019), "Simulation of the Heilongjiang River ice thickness using system dynamics model", *Proceedings*, 20th Workshop the Hydraulics of Ice Covered Rivers, Ottawa, Ontario, Canada, May 14-16, 2019.
93. Simonovic, S.P. (2022) "Decision Support for Integrated Water Resources Management – From Global Change to Basin-Level Impacts", *Proceedings* of the 9th international conference on water Resources and environment research - Bridging the gaps of interdisciplinary sustainability solutions for complex water and environmental systems, Edited by Prof. Ni-Bin Chang and Prof. Liping Fang, pp:191-196, University of Central Florida, Orlando, Florida, USA, April 25 to 27, 2022.

Invited Presentations

1. Miloradov, M. and S.P. Simonovic (1985), "Water Resources and Regional Planning", **keynote lecture**, Proceedings of the 8th *Conference of Yugoslavian Regional Planners*, Dubrovnik, Yugoslavia (in Serbian).
2. Simonovic, S.P. (1988), "Expert Systems and Reservoir Operations", **invited lecture**, Engineering Foundation Conference on *Using Knowledge Based Expert Systems in the Engineering and Constructed Environments*, Santa Barbara, U.S.A., February.
3. Simonovic, S.P. (1988), "Intelligent Decision Support in Water Resources", **invited lecture**, Expert Systems Workshop, Environment Canada, Ottawa, Canada, June.
4. Simonovic, S.P. (1988), "Expert Systems in Water Resources", **guest lecture**, IIASA, Vienna, Austria, July.
5. Simonovic, S.P. (1990), "Reservoir Systems Analysis: From Rippl Diagram to Expert Systems", **keynote lecture**, International Symposium on *Water Resources Systems Application*, Winnipeg, June.
6. Simonovic, S.P. (1990), "Issues in Developing Expert Systems for the Design and Management of Reservoirs", **invited lecture**, ISMES workshop, Milan, Italy, October.
7. Simonovic, S.P. (1990), "Expert Systems in Water Resources", **keynote lecture**, CSCE Seminar: Expert systems in Civil Engineering, Winnipeg, October.
8. Simonovic, S.P. (1991), "Risk Issues in Modelling Real-Time Reservoir Operations", **invited lecture**, Engineering Foundation Conference - *Risk Based Decision Making in Water Resources*, Santa Barbara, California, USA, November.
9. Simonovic, S.P. (1992), "The Design of a Computer System for Developing Stage-Discharge Rating Curves in Stable Channels", **invited lecture**, ASCE, Water Forum '92, *Saving A Threatened Resource*, Baltimore, USA, August.
10. Simonovic, S.P. (1993), "Flood Control Management by Integrating GIS with Expert Systems: Winnipeg City Case Study", **invited lecture**, International Conference on *Application of Geographic Information Systems in Hydrology and Water Resources Management*, Baden (Vienna), Austria, April.
11. Simonovic, S.P. (1993), "Intelligent Decision Support for Flood Control Management", **keynote lecture**, 10th Brazilian National Symposium on Water Resources, Gramado, Brazil, November.
12. Simonovic, S.P. (1994), "Intelligent Decision Support for Water Resources Management", **guest lecture**, Department of Civil Engineering, University of Toronto, Toronto, January.
13. Simonovic, S.P. (1994), "Intelligent Decision Support System Approach to Water Resources Planning and Management", **guest lecture**, Department of Civil Engineering, University of Belgrade, Yugoslavia, February (in Serbian).
14. Simonovic, S.P. (1994), "Intelligent Decision Support Systems for Water Resources Management", **guest lecture**, St. Anthony Falls Hydraulic Laboratory, University of Minnesota, Minneapolis, April.
15. Simonovic, S.P. (1994), "Computer Technologies", **invited lecture**, Second European Conference on *Advances in Water Resources Technology and Management*, Lisbon, Portugal, June.
16. Simonovic, S.P. (1994), "Decision Support for Sustainable Water Resource Management", **keynote lecture**, International Symposium on *Water Resources Planning in a Changing World*, Karlsruhe, Germany, June.

17. Simonovic, S.P. (1996), "Decision Support for Sustainable Water Resources Development", **guest lecture**, Department of Systems Design Engineering, University of Waterloo, Waterloo, January.
18. Simonovic, S.P. (1996), "Intelligent Decision Support Systems for Sustainable Management of Water Resources", **keynote lecture**, International Workshop on *System Intelligence for Water Resources Management*, Kyoto, Japan, November.
19. Simonovic, S.P. (1996), "Expert System Approach for Determining Evaluation Criteria in Water Resources", **invited lecture**, Seminar on *New concepts for basin management*, CTI Engineering Co., Ltd., Tokyo, Japan, November.
20. Simonovic, S.P. (1997), "GIS in Water Resources Management", **keynote lecture**, Workshop on *GIS Applications in Water Resources*, Canadian Society for Hydrological Sciences, Canadian Water Resources Association, Winnipeg, February.
21. Simonovic, S.P. (1997), "Risk in Sustainable Water Resource Management", **keynote lecture**, IAHS 5th Scientific Assembly, Symposium on *Sustainability of Water Resources Under Increasing Uncertainty*, Rabat, Morocco, April.
22. Simonovic, S.P. (1997), "Evaluating Sustainability of Large Scale Water Resources Developments", **keynote lecture**, *International Conference on Large Scale Water Resources Development in Developing Countries: New Dimensions and Problems*, Katmandu, Nepal, October.
23. Simonovic, S.P. (1998), "Social Criteria for Evaluation of Flood Control Measures – Winnipeg Case Study", **keynote lecture**, *International Workshop on Non-Structural Flood Control in Urban Areas*, Sao Paulo, Brazil, April.
24. Simonovic, S.P. (1998), "Barriers to Sustainable Water Resources Management", **keynote lecture**, *International Workshop on Barriers to Sustainable Management of Water Quantity and Quality*, IAHS and Chinese Hydraulic Engineering Society, Wuhan, China, May.
25. Simonovic, S.P. (1998), "Modeling Systems Dynamics for Strategic Water Resources Planning", **guest lecture**, Department of Civil Engineering, University of Belgrade, Yugoslavia, June (in Serbian).
26. Simonovic, S.P. (1998), "Opportunities for Sustainable Resource Engineering", **guest lecture**, Department of Civil and Resource Engineering, The University of Auckland, Auckland, New Zealand, August.
27. Simonovic, S.P. (1998), "Sustainable Water Resources Management", **keynote lecture**, 26th Italian National Congress of Hydraulics and Hydraulic Works: Water Engineering and Sustainable Development, Proceedings, Vol.V, pp.39-52, Catania, Italy, September.
28. Simonovic, S.P. (1999), "Teaching Based on Systems Thinking", **guest lecture**, Department of Systems Design Engineering, University of Waterloo, Waterloo, January.
29. Simonovic, S.P. (1999), "Sustainable Practices in Reservoir Management", **invited lecture**, 1999 International Forum on Water and Sustainability, CSCE, Regina, Proceedings, pp.63-90, June.
30. Simonovic, S.P. (1999), "Flood Mitigation in Red River Basin", **keynote lecture**, IAHS Symposium, Hydrological Extremes: Understanding, Predicting, Mitigating, Birmingham, July.
31. Simonovic, S.P. (2000), "Sustainability and Risk", **invited lecture**, 17th Annual Red River Basin Land and Water International Summit Conference: Our Basin Home – Managing our Society Within Nature, Winnipeg, January.
32. Simonovic, S.P. (2000), "Systems Approach to Mitigation of Natural Disasters", **guest lecture**, Department of Civil and Environmental Engineering, University of Western Ontario, London, February.

33. Simonovic, S.P. (2000), "Systems View of Civil Engineering Education", **guest lecture**, Department of Civil and Environmental Engineering, Ryerson University, Toronto, March.
34. Simonovic, S.P. (2000), "Water Dynamics", **keynote lecture**, International Symposium on Integrated Water Resources Management, Davis, April.
35. Simonovic, S.P. (2000), "What is a Decision Support System?", **invited lecture**, Red River Flood Forecasting and Management Tools Workshop, Canada-Manitoba Partnership Agreement on Red River Valley Protection, Winnipeg, May.
36. Simonovic, S.P. (2000), "Decision Support Systems for Sustainable Management of Water Resources", **invited lecture**, International Seminar on Achieving Sustainability in Water Resources Systems, Panama City, Panama, June.
37. Simonovic, S.P. (2000), "World Water Dynamics", **keynote lecture**, World Congress of the Systems Sciences, Toronto, July.
38. Ahmad, S., and S.P. Simonovic (2000), "Dynamic Modeling of Flood Emergency Management Policies", **invited lecture**, Mitigation 2000, Manitoba Emergency Management Organization, Winnipeg, November.
39. Simonovic, S.P. (2000), "A Systems Approach to Natural Hazard Mitigation", **invited lecture**, Mitigation 2000, Manitoba Emergency Management Organization, Winnipeg, November.
40. Simonovic, S.P. (2000), "Systems Analysis and Natural Disasters", **invited lecture**, 'Dealing with Disasters', A Workshop on Extreme Events and the Assessment of Risk, Institute for Catastrophic Loss Reduction, University of Western Ontario, London, November
41. Ahmad, S., and S.P. Simonovic, (2000), "Behavioral Model for Evacuation Planning during Flood Emergencies", **invited lecture**, 'Dealing with Disasters', A Workshop on Extreme Events and the Assessment of Risk, Institute for Catastrophic Loss Reduction, University of Western Ontario, London, November.
42. Simonovic, S.P. (2000), "Collaborative Decision Support for Water Resources Planning – A Systems Approach", **guest lecture**, Wageningen University & Research Centre, The Netherlands, November.
43. Simonovic, S.P. (2000), "Collaborative Decision Support for Water Resources Planning – A Systems Approach", **guest lecture**, Delft University of Technology, The Netherlands, November.
44. Simonovic, S.P. (2001), "The Impact of Climate Change and Variability on Large Scale Flood Protection Structures in the Red River Basin", **invited lecture**, 'Trends in Canadian Hydrologic Time Series', National Science Workshop, Environment Canada, Canada Centre for Inland Waters, Burlington, Ontario, March.
45. Simonovic, S.P. (2001), "Measures of sustainability and their utilization in practical water management planning", **keynote lecture**, 6th Scientific Assembly of the IAHS, Symposium 2: Regional management of water resources, Maastricht, the Netherlands, July.
46. Simonovic, S.P. (2001), "World Water Dynamics – Issues for the 21st Century", **invited plenary lecture**, 11th Stockholm Water Symposium, Stockholm, Sweden, August.
47. Simonovic, S.P. (2001), "Non-structural Measures for Sustainable Management of Floods", **invited plenary lecture**, International UNESCO workshop on Non-structural Measures for Water Management Problems, London, Canada, October.
48. Simonovic, S.P. (2002), "Climate Variability and Flood Protection Systems", **invited lecture**, London Section, Canadian Society of Civil Engineers, London, Canada, February.
49. Simonovic, S.P. (2002), "Implications of Climate Change on City Environmental Services", **invited lecture**, City of London, London, Canada, May.

50. Simonovic, S.P. (2002), "Psychosocial impacts of floods", **invited plenary lecture**, Workshop "Dealing with disasters: Impact on human health", Institute for Catastrophic Loss Reduction, London, Canada, September.
51. Simonovic, S.P. (2002), "Emergency Preparedness and Natural Disasters", **invited lecture**, Emergency Management Mutual Aid Council, London, September.
52. Simonovic, S.P. (2002), "Climatic, social and technological changes and their impacts", **keynote lecture**, International Conference, From Conflict to Co-operation in International Water Resources Management: Challenges and Opportunities, IHE Delft, The Netherlands, November.
53. Simonovic, S.P. (2002), "A New Spatial Method for Management of Natural Disasters", **invited lecture**, Institute for Catastrophic Loss Reduction, Brown Bag Lunch Series, The University of Western Ontario, London, December.
54. Simonovic, S.P. (2003), "*CanadaWater* A Tool for Modeling Canadian Water Resources", **invited plenary lecture**, Annual General Meeting of the Canadian Commission for UNESCO, Ottawa, March.
55. Simonovic, S.P. (2003), "Systems, Systems Everywhere!", **invited lecture**, Department of Civil and Environmental Engineering, Brown Bag Lunch Series, The University of Western Ontario, London, March.
56. Simonovic, S.P. (2003), "Natural Disasters", **invited lecture**, The Kiwanis Club of North London, London, March.
57. Simonovic, S.P. (2003), "Dynamic Modeling of Canadian Troubled Waters", **keynote lecture**, Freshwater for All: Challenges and Opportunities - A symposium organized by the Canadian Commission for UNESCO and The Royal Society of Canada, Dalhousie University, Halifax, May.
58. Simonovic, S.P. (2003), "System Dynamics Model of Canada's Water Resources", **guest lecture**, Golder Associates, Calgary, June.
59. Simonovic, S.P. (2003), "A new method for Spatial Water Resources Management", **guest lecture**, The University of Belgrade, Department of Civil Engineering, Belgrade, Serbia, October.
60. Simonovic, S.P. (2003), "Assessment of Canadian Water Resources Through System Dynamics Simulation", **guest lecture**, Upper Thames River Conservation Authority, London, October.
61. Simonovic, S.P. (2003), "Water for Everyone", **invited lecture**, Discussion panel – USCs Enviro Week, University of Western Ontario, London, November.
62. Simonovic, S.P. (2003), "A System Dynamics Approach for Evaluation of Climate Change Impacts on Canada's Water Resources", **invited lecture**, Seminaires Impacts et Adaptation Ouranos, OURANOS, Montreal, November.
63. Simonovic, S.P. (2004), "Participation of Multiple Stakeholders in Sustainable Management of Floods: Red River Basin Case Study", **invited lecture**, International Workshop on Water Hazard and Risk Management, Tokyo, Japan, January.
64. Simonovic, S.P. (2004), "Systems Analysis for Disaster Risk Management", **invited lecture**, Collaborative Research Workshop on Effects of Extreme Natural Events, The University of Western Ontario, London, January.
65. Simonovic, S.P. (2004), "Natural Disasters and Research That Saves Lives", **invited lecture**, Western's Alumni Lecture Series in Toronto, Toronto, March.
66. Simonovic, S.P. (2004), "Operational Multicriteria Decision Making Tool for Management of Floods in the Red River Basin", **invited lecture**, CURA Workshop, promoting Sustainable Floodplain management Through Stakeholder Involvement, Howden, Manitoba, April.

67. Simonovic, S.P. (2004), "Modeling Impacts of Climate Change on Canada's Water Resources", **invited lecture**, Symposium on Environment: Risk and Modelling, GERAD – HEC Montreal, Montreal, May.
68. Simonovic, S.P. (2004), "Flood Management in the Red River Basin, Canada - Case Study of Integrated Flood Management", **invited lecture**, First Preparatory Meeting of International Flood Initiative, UNESCO, WMO and UNU, Tsukuba, Japan, July.
69. Simonovic, S.P. (2004), "A New Approach for Spatial Multi-Objective Decision Making Under Uncertainty", **keynote lecture**, Environmental Informatics 2004, International Society for Environmental Information Sciences, 2004 Annual Conference, Regina, August.
70. Simonovic, S.P. (2004), "Sustainable Floodplain management – Participatory Planning in the Red River Basin, Canada", **keynote lecture**, International Federation for Automatic Control, Workshop on Modeling and Control for Participatory Planning and Managing Water Systems, Venice, Italy, September.
71. Simonovic, S.P. (2004), "ICLR research on sustainable management of floods in Canada", **invited lecture**, the CIP society, "Earth, wind & fire", seminar, Conestoga Chapter, Cambridge, October.
72. Simonovic, S.P. (2004), "Inverse modeling of water resources risk and vulnerability to changing climatic conditions in the Upper Thames river basin", **invited lecture**, C-CIARN Water Resources Workshop – Application of climate models to water resources management, Victoria, November.
73. Simonovic, S.P. (2004), "Water and Disasters: Challenges and Opportunities", **keynote lecture**, International workshop – Water and Disasters, London, Ontario, December.
74. Simonovic, S.P. (2004), "Flood research partnership: Promoting stakeholders' participation in sustainable floodplain management", **invited lecture**, International workshop – Water and Disasters, London, Ontario, December.
75. Simonovic, S.P. (2005), "Inverse modeling of water resources risk and vulnerability to changing climatic conditions", **invited lecture**, University of Miami, Miami, USA, January.
76. Simonovic, S.P. (2005), "International Flood Initiative: Time for Action", **invited lecture**, World Conference on Disaster Reduction, session: New International Initiatives for Research and Risk Mitigation of Floods and Landslides, Kobe, Japan, January.
77. Simonovic, S.P. (2005), "Importance of Interagency Activities for Mitigating Against, Responding To, Recovering From Water-induced Disasters", **invited lecture**, World Conference on Disaster Reduction, session: Integrated Flood Risk Management through Appropriate Knowledge Sharing and Capacity Building Systems, Kobe, Japan, January.
78. Simonovic, S.P. (2005), "A Model for Risk Communication in Sustainable Floodplain Management, **invited lecture**, World Conference on Disaster Reduction, session: Effective and Successful Risk Communication as an Integral Part of Disaster Risk Management, Kobe, Japan, January.
79. Simonovic, S.P. (2005), "Natural Disasters and Research that Saves Lives", **keynote lecture**, 11th Annual CSCE Student Conference, London, Ontario, January.
80. Simonovic, S.P., (2005), "Natural Disasters and Civil Engineering", **invited lecture**, Rober and Joyce Jones Civil Engineering Forum Lecture, Queen's University, Kingston, Ontario, February.
81. Simonovic, S.P. (2005), "Computer Support for Implementation of a Systemic Approach to Water Conflict Resolution", **invited lecture**, 5th Meeting of the Transboundary Impact Assessment Study Group, Tokyo, Japan, March.

82. Simonovic, S.P., (2005), "The Disaster Resilient City: A Water Management Challenge", **keynote lecture**, VIIth IAHS Scientific Assembly, Symposium – Sustainable Water Management: Solutions for Large Cities, Foz do Iguaçu, Brazil, April.
83. Simonovic, S.P., (2005), "New Directions in the Implementation of Integrated Water Resources Management", **invited lecture**, Expert group meeting: New directions in IWRM implementation in basins, sub-basins and aquifers, Paris, France, July.
84. Simonovic, S.P., (2005), "Some International Experience in Flood Management", **invited lecture**, Water directorate – Ministry of agriculture, forestry and water resources, Belgrade, Serbia, July.
85. Simonovic, S.P., (2005), "Dynamic Modeling of Canadian Troubled Waters", **keynote lecture**, *Proceedings*, 17th Canadian Hydrotechnical Conference, CSC, Edmonton, August.
86. Simonovic, S.P., (2005), "Application of the Fuzzy Performance Measures to the City of London Regional Water Supply System-Canada", **invited lecture**, European Co-operation in the Field of Scientific and Technical Research (COST) conference on 'Vulnerability Assessment of Urban Infrastructure and Urban Systems', Exeter, UK, September.
87. Simonovic, S.P., (2005), "Red River Flood Forecasting – How deep is water going to be at my doorstep?", **invited lecture**, Open Meeting of the Human Dimension of Global Environmental Change Research Community, Visualization of Complex Models – How to Foster Understanding Between Scientists of Different Disciplines, Media, and Decision Makers, Bonn, Germany, October.
88. Simonovic, S.P., (2005), "New Fuzzy Criteria for Evaluation of Critical Infrastructure Performance", **invited lecture**, 2nd Annual Canadian Risk and Hazard Network Symposium: Reducing Risk Through Partnerships, Toronto, November.
89. Simonovic, S.P., (2006), "Fuzzy Criteria for Evaluation of Water Resources Systems Performance", **invited lecture**, International Workshop on Flood Risk Management, PWRI, Tsukuba, Japan, January.
90. Simonovic, S.P., (2006), "Integrated Modeling of Canada's Water Resources, *CanadaWater*", **invited lecture**, Freshwater for the Future: Policies for Sustainable Water Management in Canada, Gatineau, Quebec, May.
91. Simonovic, S.P., (2006), "Management of Water Related Disasters in Urban Environments", **invited lecture**, UNESCO International Workshop on Integrated Urban Water Management in Temperate Climate, Belgrade, Serbia, May.
92. Simonovic, S.P., (2006), "Global strategies to overcome the world water management crisis", **invited lecture**, Institution of Civil Engineers – ICE – Triennial Conference, London, UK, July.
93. Simonovic, S.P., (2006), "Fuzzy reliability analysis of floods", **keynote lecture**, 3rd International Symposium on Integrated Water Resources Management, Ruhr-University, Bochum, Germany, September.
94. Simonovic, S.P., (2006), "Modelling impacts of climate change", **invited lecture**, Hot topics series, Alberta Environment, Edmonton, October.
95. Simonovic, S.P., (2006), "Water for our children: Strategies to overcome world water management crisis", **invited lecture**, The Canadian Society for Civil Engineering, The Canadian Geotechnical Society, London district section, London, October.
96. Simonovic, S.P., (2006), "Three strategies for better management of water resources", **invited lecture**, '06 Annual Meeting of LARA (Regional network-lab for waters), Università degli studi di Ferrara, Ferrara, Italy, December.
97. Simonovic, S.P., (2007), "Water for our children: Three strategies to overcome world water management crisis", **institute lecture**, Indian Institute of Science, Bangalore, India, March.

98. Simonovic, S.P., (2007), "A systems approach for the management of aquatic systems", **invited lecture**, Management of Aquatic Systems in Forest Landscapes, Knowledge Exchange Workshop, Sustainable Forest Management Network, Winnipeg, March.
99. Simonovic, S.P., (2007), "A new method for spatial and temporal analysis of risk in water resources management", **invited lecture**, International Workshop on Advances in Hydroinformatics 2007, Niagara Falls, June.
100. Simonovic, S.P., (2007), "Integrated Water Resources Management – Operational View", **keynote lecture**, International Conference on "Approvvigionamento e Distribuzione Idrica: Espeienze, Ricerca ed Innovazione", Ferrara, Italy, June.
101. Simonovic, S.P., (2007), "Assessment of Climatic Change Impacts in the Upper Thames River Basin: Results and Implications", **invited lecture**, Committee of the Whole, London City Council, London, September.
102. Simonovic, S.P., (2007), "A New Approach to Risk Assessment", **invited lecture**, Friday Forum, Institute for Catastrophic Loss Reduction, Toronto, September.
103. Simonovic, S.P., (2007), "Modelling Impacts of Climatic Change on the Watershed Scales: Implication for Management of the Upper Thames River basin", **invited lecture**, Creating a Climate for Change in the Upper Thames Watershed, UTRCA workshop, October.
104. Simonovic, S.P., and E.G.R. Davies, (2007), "An Integrated System Dynamics Model of the Social-Economic-Climatic System", **invited lecture**, The Ocean Management Research Network Conference, Ottawa, October.
105. Simonovic, S.P. (2007), "Climate Change: What Can I Do?", **invited lecture**, Fletcher's Meadows Secondary School, Brampton, December.
106. Simonovic, S.P. (2008), "An Integrated System Dynamics Model of the Social-Economic-Climatic System", **invited distinguished seminar**, Florida Atlantic University, Department of Civil Engineering, Boca Raton, Florida, February.
107. Simonovic, S.P., (2008), "Assessment of Climatic Change Impacts in the Upper Thames River Basin: Results and Implications", **invited lecture**, South Florida Water Management District, West Palm Beach, Florida, February.
108. Davies, E.G.R., and S.P. Simonovic, (2008), "Feedback Modelling and Climate Change", **invited lecture**, workshop - Atlantic Climate Change 2008: Risks, Responses and Tools for Action, Halifax, March.
109. Simonovic, S.P., (2008), "Inverse flood risk modeling under changing climatic conditions in the Upper Thames River basin: Results and implications", **50th anniversary invited lecture**, China Institute of Water Resources and Hydropower Research, Beijing, April.
110. Simonovic, S.P., (2008), "Assessment of Climatic Change Impacts in the Upper Thames River Basin: Results and Implications", **invited lecture**, College of Water Sciences, Beijing Normal University, Beijing, April.
111. Simonovic, S.P., (2008), "Assessment of Risk and Vulnerability of Water Supply Systems to Climate Change", **invited lecture**, NRC Workshop on Life Cycle Performance and Management of Core Public Infrastructure, Ottawa, July.
112. Simonovic, S.P., (2008), "An Integrated System Dynamics Model of the Social-Economic-Climatic System", **invited lecture**, The Department of Environment and Geography, The University of Manitoba, Winnipeg, September.
113. Simonovic, S.P., (2008), "Managing Water Resources in the Upper Thames River Basin", **invited lecture**, International Conference on Planning and Management of Water Resources Systems, Academy of Sciences and Arts of Vojvodina, Novi Sad, Serbia, September.

114. Simonovic, S.P., (2008), "Extreme Flooding, Policy Development and a Society-Biosphere-Climate Feedback Model", **invited lecture**, CTI Engineering Co., Ltd., consulting engineers, Tokyo, Japan, November.
115. Simonovic, S.P., (2008), "Water Resources and Global Change Modelling", **invited lecture**, International Symposium on Hydrology, Hydraulics and Water Resources Aspects on Global Water Issues for 30th Anniversary of Water Research Center, Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan, November.
116. Simonovic, S.P., and J.B. Davies, (2008), "An Integrated System Dynamics Model of the Social-Economic-Climatic System", **invited lecture**, Climate Policy Workshop, The Centre for International Governance Innovation, Waterloo, December.
117. Simonovic, S.P., (2008), "Assessment of Water Resources Risk and Vulnerability to Changing Climatic Conditions", **invited lecture**, Lectures of climate change experts to the Department of Environment, Government of Ontario, Toronto, December.
118. Simonovic, S.P., (2009), "Unbottle it! Kick the bottle. Tap into public drinking water.", The Council of Canadians and CUPE Ontario speaking tour, **invited lecture**, London, Ontario, January.
119. Simonovic, S.P., (2009), "Assessment of Water Resources Risk and Vulnerability to Changing Climatic Conditions", **invited lecture**, Roundtable discussion of the issues and challenges of managing storm water in a changing climate, Rideau Valley Conservation Authority, Manotick, January.
120. Simonovic, S.P., (2009), "Assessment of Water Resources Risk and Vulnerability to Changing Climatic Conditions", **invited lecture**, OCCIAR workshop, Adapting to Climate Change in Ottawa, Ottawa, January.
121. Simonovic, S.P., (2009), "Mapping the Future Flood Risk in the City of London", **invited lecture**, Friday Forum, Institute for Catastrophic Loss Reduction, Toronto, February.
122. Simonovic, S.P., (2009), "Climate Change and Water Management", **guest lecture**, Department of Mechanical and Material Engineering, The University of Western Ontario, March.
123. Simonovic, S.P., (2009), "The Book – Managing Water Resources", **invited lecture**, 5th World Water Forum, Bridging Divides for Water, Istanbul, Turkey, March.
124. Simonovic, S.P., (2009), "Flood Related Activities of the Institute for Catastrophic Loss Reduction", **invited lecture**, 5th World Water Forum, Bridging Divides for Water, Istanbul, Turkey, March.
125. Simonovic, S.P., (2009), "Water and Climate Change", **guest lecture**, Climate Change Innovation by Way of Collaboration and Creativity, Council of Canadians, London, March.
126. Simonovic, S.P., (2009), "Changing Climate Conditions in the Upper Thames River Basin", **invited lecture**, 2nd Climate Change Technical Conference, Hamilton, May.
127. Simonovic, S.P., (2009), "Inverse flood risk modeling under changing climatic conditions in the Upper Thames River basin", **invited lecture**, International Workshop on Climate Change and Management of Water Resources in Arid Regions", Urumqi, Xinjiang, China, May.
128. Simonovic, S.P., (2009), "An integrated system dynamics model of the social-economic-climatic system", **invited plenary lecture**, The 2009 Conference on System Sciences, Management Sciences and System Dynamics, Tongji University, Shanghai, China, May.
129. Simonovic, S.P., (2009), "Canadian Experiences in Climate Change Dialogue between Policy and Science", **keynote lecture**, 33rd IAHR Congress: *Water Engineering for a Sustainable Environment*, Vancouver, August.

130. Simonovic, S.P., (2009), "Systems Analysis as a Tool to Deal with Variability", **invited lecture**, World Water Week, SIWI seminar: *Is Rainfall More Significant than Climate Change? Livelihood Risks and Planning Challenges*, Stockholm, Sweden, August.
131. Simonovic, S.P., (2009), "Water Resources Management: A Systems View", **keynote lecture**, 70th meeting of the European working group – *Multiple Criteria Decision Aiding*, Moncton, September.
132. Simonovic, S.P., (2009), "Climate Change and Water Management", **invited lecture**, *Escola Politecnica da Universidade de Sao Paulo*, Sao Paulo, Brazil, October.
133. Simonovic, S.P., (2009), "Water and Climate Change – It is all about feedbacks", **invited public lecture**, *Friends of the Upper Thames River watershed*, London, November.
134. Simonovic, S.P., (2009), "Water Resources Engineering: Challenges and Opportunities", **invited lecture**, Mini-Lecture Series, *WSCE, University of Western Ontario*, London, November.
135. Simonovic, S.P. (2010), "Climate Change and Water Management – The Renaissance of Systems Approach", **keynote lecture**, *3rd International Perspective on Current & Future state of Water resources & the Environment*, *EWRI of ASCE*, Chennai, India, January.
136. Simonovic, S.P. (2010), "Climate Change and Water Management: The renaissance of Systems Approach", **National Lecture Tour**, *Canadian Society for Civil Engineering*
 April 13, Saskatoon
 April 14, Calgary
 April 14, Edmonton
 April 15, Victoria
 April 15, Vancouver
 April 19, Hamilton
 April 21, St. John's
 April 22, Fredericton
 May 21, Winnipeg
 May 27, Ottawa
137. Simonovic, S.P. (2010), "A new view of water management under climate change", **invited lecture**, *Canadian Water Security – The Critical Role of Science*, *CFCAS*, Ottawa, May.
138. Simonovic, S.P. (2010), "Systems approach for policy development", **invited lecture**, *Our Earth, our air, our water, our future*, *CMOS-CGU 2010*, Ottawa, June.
139. Simonovic, S.P. (2010), "Methodology for Assessment of Climate Change Risk to Municipal Infrastructure", **keynote lecture**, *2nd International Interdisciplinary Conference on Predictions for Hydrology, Ecology, and Water Resources Management – HYDROPREDICT'2010*, Prague, Czech Republic, September.
140. Simonovic, S.P. (2010), "Canadian and US Experience in Flood Flow Assessment", **invited lecture**, working meeting – *Hydrology of Floods in Serbia: Current State and Future Needs*, *JVP Srbijavode*, Belgrade, Serbia, September, (in Serbian).
141. Simonovic, S.P. (2011), "Climate Change and Water Management: The renaissance of Systems Approach", **invited lecture**, *Canadian Society for Civil Engineering*, London Chapter, London, January.
142. Simonovic, S.P. (2011), "Methodology for Assessment of Climate Change Risk to Municipal Infrastructure", **invited lecture**, *Engineering Climate Change Adaptations Niagara*, *WaterSmart Niagara*, January.
143. Simonovic, S.P. (2011), "Climate Change and Water Management: The Renaissance of Systems Approach", **invited lecture**, *Civil Seminar, The Department of Civil and Environmental Engineering*, *The University of Western Ontario*, London, February.

144. Simonovic, S.P. (2011), "Assessment of Climate Change Risk to Municipal Infrastructure: City of London, Ontario, Canada", **invited lecture**, *2011 ASCE FAU Chapter Professional Speaker Seminar Series*, Boca Raton, USA, February.
145. Simonovic, S.P. (2011), "Climate Change and Water Management", **invited lecture**, The University of Western Ontario, *Department of Civil and Environmental Engineering, graduate lecture series*, London, February.
146. Simonovic, S.P. (2011), "Managing Water Resources: The Renaissance of Systems Approach", **keynote lecture**, *2011 WITS Conference, Water & Sustainable Economic Development*, Sao Paulo, Brazil, March.
147. Simonovic, S.P. (2011), "The City of London: Assessment of Climate Change-Caused Flood Risk to Infrastructure", **invited lecture**, *City of Sao Paulo*, Sao Paulo, Brazil, March.
148. Simonovic, S.P. (2011), "Methodology for Assessment of Climate Change-Caused Flood Risk to Municipal Infrastructure", **invited lecture**, *Federal Water Resources Agency (ANA)*, Brasilia, Brazil, March.
149. Simonovic, S.P. (2011), "Climate Change and Water Management", **invited lecture**, *The University of Western Ontario Retired Academics Group*, London, March.
150. Simonovic, S.P. (2011), "Water Resources Management: A Systems Approach", **invited lecture**, *The University of Manitoba*, Winnipeg, April.
151. Simonovic, S.P. (2011), "Climate Change and Floods", **keynote lecture**, Scientific Workshop "Leaving with Floods in Serbia", *Faculty of Forestry, the University of Belgrade*, Belgrade, Serbia, May (in Serbian).
152. Simonovic, S.P. (2011), "Methodology for the analysis of climate change impacts on the watershed scale", **invited lecture**, *Climate Change Workshop*, Water Resources Institute Jaroslav Cerni, Belgrade, Serbia, May (in Serbian).
153. Simonovic, S.P. (2011), "Climate change impacts on the Thames Watershed (Ontario, Canada) – A case study", **invited lecture**, *Climate Change Workshop*, Water Resources Institute Jaroslav Cerni, Belgrade, Serbia, May (in Serbian).
154. Simonovic, S. P. (2011), "From Milankovitch to adaptation to climate change", **special public lecture**, the *University of Belgrade, office of the Rector*, Belgrade, Serbia, May (in Serbian).
155. Simonovic, S.P. (2011), "Assessment of climate change induced flood risk to buildings: City of London case study", **invited lecture**, *ICLR Basement Flooding Symposium*, Toronto, May.
156. Simonovic, S.P. (2011), "...from 'Science for Policy' to 'Policy for Science...'", **keynote lecture**, 2011 CSCE Annual General meeting and Conference, *Engineers – Advocates for Future Policy*, June, Ottawa.
157. Simonovic, S.P. (2011), "...from 'Global Climate Risks' to 'Local Risk Management'...", **invited lecture**, IVEY CEMS seminar, *Managing Global Risks in Global Economy*, London, September.
158. Simonovic, S.P. (2011), "Flood Early Warning Systems – Research Gaps and Future Needs", **keynote lecture**, 5th International Conference on Flood Management, *From Risk to Opportunity*, Special Session – Flood Early Warning Systems, Tokyo, Japan, September.
159. Simonovic, S.P. (2011), "Systems Approach to Management of Disasters – Methods and Applications", **invited lecture**, WFEO CDRM International Lecture (WFEO - World Federation of Engineering Organizations, CDRM - Committee on Disaster Risk Management), CTI Engineering Co, LTD, Tokyo, Japan, September.
160. Simonovic, S.P. (2011), "Flood Management – Urgent Needs for Interdisciplinary Education", **keynote lecture**, 5th International Conference on Flood Management, *From Risk to*

Opportunity, Special Session – Education and Capacity Building in Flood Management, Tokyo, Japan, September.

161. Simonovic, S.P. (2011), *Opportunities for development in the Western Balkans in the context of climate change impacts and water scarcity*, Scenario workshop, Organization for Security and Co-operation in Europe, European Environment Agency, Belgrade, Serbia (October):
 “Climate change and water resources management – a systems approach” – **invited lecture**
 “Risk management as adaptation to climate change” – **invited lecture**
162. Simonovic, S.P. (2011), **invited lecture**, “Climate Change Impact on Municipal Infrastructure: City of London Case Study”, *The University of Western Ontario, Department of Civil and Environmental Engineering, graduate lecture series*, London, November.
163. Simonovic, S.P. (2011), **invited lecture**, “Case study: London’s Efforts to Protect Critical Infrastructure from Climate Related Flooding”, *Climate Change Adaptation in the Emergency Management and Critical Infrastructure Sectors*, workshop organized by Clean Air Partnership and City of London, London, November.
164. Simonovic, S.P. (2012), **distinguish speaker lecture, 2012 ASCE FAU Chapter Professional Speaker Seminar**, “Building Adaptive Capacity for Managing Climate Change in Coastal Megacities”, Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University, Boca Raton, Florida, February.
165. Simonovic, S.P. (2012), **invited lecture**, “A Systems Approach to Modelling the Water-Energy-Food Nexus”, *IISD-GWSP Conference on the Water-Energy-Food Security Nexus*, International Institute for Sustainable Development, Winnipeg, May.
166. Simonovic, S.P. (2012), **invited lecture**, “Modeling Water Resources on the Global Scale”, Singidunum University, FUTURA - The Faculty of Applied Ecology, Belgrade, Serbia, June (in Serbian).
167. Simonovic, S.P. (2012), **invited lecture**, “Modeling Water Resources on the Global Scale”, University of Belgrade, The Faculty of Geography, Belgrade, Serbia, June (in Serbian).
168. Simonovic, S.P. (2012), **invited lecture**, “A Systems Approach to Modelling the Water-Energy-Food Nexus”, *Avoiding the Perfect Storm – The Water-Food-Energy Nexus Workshop*, University Of Exeter, Exeter, UK, July.
169. Simonovic, S.P. (2012), **invited lecture**, “System Dynamics Modelling of Interactions within the Society-Biosphere-Climate System”, *Second Workshop on Understanding Climate Change from Data*, University of Minnesota, Minneapolis, USA, August.
170. Simonovic, S.P. (2012), *Climate Change and its Impact on Water Resources and Municipal Infrastructure*, Workshop, Milutin Milankovic Society, Belgrade, Serbia (September):
 “Climate change and water resources management” – **invited lecture**
 “Modelling Climate Change Impacts on the Local Scale” – **invited lecture**
 “Climate Change Impact on Municipal Infrastructure: City of London Case Study” – **invited lecture**
 “Rainfall intensity duration frequency curves under climate change: City of London, Ontario, Canada” – **invited lecture**
171. Simonovic, S.P. (2012), **keynote lecture**, “What can we learn from integrating water resources with a global model of the social-economic-environmental system?”, *HydroPredict’2012, 3rd international interdisciplinary conference on Predictions for Hydrology, Ecology, and Water Resources Management: Water Resources and Changing Global Environment*, Vienna, Austria, September.
172. Simonovic, S. P. (2012), **session keynote lecture**, “Assessment of Uncertainty in Flood Flows Under Climate Change – the Upper Thames River Basin (Ontario, Canada)”, *Session S2 –*

Ensemble Predictions in a Decision Making Context, HydroPredict'2012, 3rd international interdisciplinary conference on Predictions for Hydrology, Ecology, and Water Resources Management: Water Resources and Changing Global Environment, Vienna, Austria, September.

173. Simonovic, S.P. (2012), **invited lecture**, "Modeling Dynamic Resilience to Climate Change Caused Natural Disasters", *Friday Forum*, Institute for Catastrophic Loss Reduction, Toronto, October.
174. Simonovic, S.P. (2012), *Advanced Institute on Data for Coastal Cities at Risk*, IRDR International Centre of Excellence, Academy of Sciences, Taipei, Taiwan (October):
 "Understanding City Resilience through System Dynamics Simulation" – **invited lecture**
 "System Dynamics Simulation of Flood Evacuation" – **invited modeling lab**
 "Assessment of Climate Change Caused Flood Risk – City of London Case Study" – **invited lecture**
175. Simonovic, S.P. (2013), **distinguish speaker lecture, 2013 ASCE FAU Chapter Professional Speaker Seminar**, "Managing Natural Disasters: Methods and Tools for a Systems Approach", *Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University, Boca Raton, Florida, February.*
176. Simonovic, S.P. (2013), **interdisciplinary panel lecture**, "From Water Conflict to Water Cooperation – A Systems Approach", *Western University and EnviroWestern*, London, March.
177. Simonovic, S.P. (2013), **invited lecture**, "From Water Conflict to Water Cooperation – A Systems Approach", *The Council of Canadians, World Water Day Event*, London, March.
178. Simonovic, S. P. (2013), **invited lecture**, "Dynamic Resilience to Climate Change Caused Natural Disasters in Coastal Megacities – Quantification Framework", *China Institute of Water Resources and Hydropower Research (IWHR)*, Beijing, China, April.
179. Simonovic, S. P. (2013), **invited lecture**, "Dynamic Resilience to Climate Change Caused Natural Disasters in Coastal Megacities – Quantification Framework", *Department of Hydraulic Engineering, Tsinghua University*, Beijing, China, April.
180. Simonovic, S.P. (2013), **keynote lecture**, "Floods in a Changing Climate: Risk Management", *21st CSCE Hydrotechnical Specialty Conference*, Canadian Society for Civil Engineering, Banff, Alberta, May.
181. Simonovic, S.P. (2013), **Ven Te Chow Award lecture**, "Water Resources Systems Engineering – From Ven Te Chow to Ven Te Chow", *ASCE – EWRI World Environmental & Water Resources Congress*, Cincinnati, Ohio, May.
182. Simonovic, S.P. (2013), **keynote lecture**, "Floods and Canadian Nuclear Facilities: Risk Management", *Canadian Nuclear Safety Commission*, Ottawa, June.
183. Simonovic, S.P. (2013), **keynote lecture**, "Flood risk management under climate change", *2nd International Conference on Hydrology & Groundwater Expo*, Raleigh, North Carolina, USA, August.
184. Simonovic, S.P. and V. Nikolic (2013), **invited lecture**, "Decision Support for Integrated Water Resources Management: Spatial and Temporal Variability", *Department of Civil Engineering, North Carolina State University*, Raleigh, North Carolina, USA, August
185. Simonovic, S.P. (2013), **keynote lecture**, "From Disaster Risk Management to Quantitative Disaster Resilience: A paradigm shift", *4th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2013)*, Northumbria University, Disaster and Development Centre, Newcastle, UK, September.
186. Simonovic, S. P. (2013), **invited lecture**, "Floods in a Changing Climate – Risk Management", *Department of Civil Engineering, Newcastle University*, Newcastle, UK, September.

187. Simonovic, S.P. (2013), **keynote lecture**, “Modelling climate-water-food-energy nexus”, *Science Forum, Budapest Water Summit – Give the future a chance*, Budapest, Hungary, October.
188. Simonovic, S.P. (2013), **keynote lecture**, “Global Water Resources Modeling With an Integrated Model of the Social-Economic-Climate System: A Summary”, *International Conference on Climate Change Impacts of Water Resources*, Belgrade, Serbia, October.
189. Simonovic, S.P. (2013), **invited public lecture**, “Floods in a Changing Climate: Risk Management”, *The McMaster Centre for Climate Change Fall Lecture*, Hamilton, October.
190. Simonovic, S.P. (2013), **invited lecture**, “Floods in a Changing Climate: Risk Management – Canada, AON Benfiled, Rendezvous, Mississauga, October.
191. Simonovic, S.P. (2013), **invited lecture**, “Floods in a Changing Climate: Risk Management – Canada, Climate Change, Floods, Water Damage Risk and Pricing Property Insurance in Canada – A seminar for actuaries and actuarial students, Toronto, November.
192. Simonovic, S.P. (2013), **invited lecture**, “Building Adaptive Capacity for Managing Climate Change in Coastal Megacities”, *Department of Mechanical Engineering, University of Western Ontario, London, November.*
193. Simonovic, S.P. (2014), **invited lecture**, "Floods in a Changing Climate - Risk Management, Canada", *GORE Mutual Insurance Winter Retreat*, Toronto, Canada, January.
194. Simonovic, S.P. (2014), **invited lecture**, "Overview of Climate Change Research - FIDS – Western University", *Toronto Region Conservation Authority*, Toronto, January.
195. Peck, A. and S.P. Simonovic (2014), **invited lecture**, “City Resilience Simulator: Progress and Challenges”, *CCaR Canadian Team Meeting*, Vancouver, February.
196. Simonovic, S.P. (2014), **guest lecture**, “Systems Approach to Water Resources Management”, *BC Hydro*, Vancouver, February.
197. Simonovic, S.P. (2014), **guest lecture**, “Climate Change Impact Research at FIDS – Western University”, *National Science and Technology Center for Disaster Reduction*, Taipei Taiwan, April.
198. Simonovic, S.P. (2014), **guest lecture**, “From Disaster Risk Management to Quantitative Disaster Resilience - A Paradigm Shift”, *National Taiwan University*, Taipei, Taiwan, April.
199. Simonovic, S.P. (2014), **guest lecture**, “Changing Climate and Water Resources Management”, *National Central University*, Taiwan, April.
200. Simonovic, S.P. (2014), **guest lecture**, “Floods in a Changing Climate - Risk Management”, *National Chiao Tung University*, Taiwan, April.
201. Simonovic, S.P. (2014), **guest lecture**, “Managing Natural Disasters in a Changing Climate - Methods and Tools for a Systems Approach”, *Academia Sinica*, Taipei, Taiwan, April.
202. Simonovic, S.P. (2014), **invited lecture**, “[Cities and Climate Change – Resilience Modeling](#)”, *Sciences and Cities – Connect, The 2nd Annual Ontario Climate Consortium Symposium*, London, Ontario, May.
203. Simonovic, S.P. (2014), **invited lecture**, “Floods in a Changing Climate – Risk Modeling”, *10th Workshop of Sino-American Technology and Engineering Conference (SATEC)*, Suzhou, China, May.
204. Simonovic, S.P. (2014), **invited lecture**, “Floods in a Changing Climate – Risk Modeling”, *Shanghai Climate Research Center, Shanghai. China, May.*
205. Simonovic, S.P. (2014), **invited lecture**, “Coastal Cities at Risk – Resilience Simulator”, *Shanghai Climate Research Center, Shanghai. China, May.*

206. Simonovic, S.P. (2014), **invited lecture**, "Global Change and Systems Analysis", *Serbian Academy of Sciences and Arts*, Belgrade, Serbia, June (in Serbian).
207. Simonovic, S.P. (2014), **invited lecture**, "Through Hell and High Water – Floods in a Changing Climate", *Milutin Milankovic Society*, Belgrade, Serbia, June (in Serbian).
208. Simonovic, S.P. (2014), **keynote lecture**, "Modeling Resilience to Climate Change in Space and Time", *DailyMeteo.org/2014 Conference*, Belgrade, Serbia, June.
209. Simonovic, S.P. (2014), **keynote lecture**, "Talking about floods in the middle of a drought", *6th International Conference on Flood Management, ICFM6, Floods in a Changing Environment*, Sao Paulo, Brazil, September 16 - 18, 2014. (YouTube video <https://www.youtube.com/user/slobodansimonovic?feature=mhee>)
210. Simonovic, S.P. (2014), **invited lecture**, "From Disaster Risk Management to Quantitative Resilience: A Paradigm Shift", *Special session Coastal Cities at Risk, 6th International Conference on Flood Management, ICFM6, Floods in a Changing Environment*, Sao Paulo, Brazil, September 16 - 18, 2014.
211. Simonovic, S.P. (2014), **invited lecture**, "Floods in a Changing Climate: Risk Management", *High North Seminar*, Oslo, Norway, October 28 - 29.
212. Simonovic, S.P. (2014), **guest lecture**, "From Disaster Risk Management to Quantitative Resilience: A Paradigm Shift", *DNV GL*, Oslo, Norway, October 30.
213. Simonovic, S.P. (2014), **invited lecture**, "Municipalities in a Changing Climate: Decision Support Tools to Help Prepare for What's to Come", *Ontario Centre for Climate Impacts and Adaptation Resources - the Climate Change Adaptation Community of Practice*, webinar, December 10.
214. Simonovic, S.P. (2015), **invited lecture**, "Complexity and decision making under uncertainty: Some ideas for consideration in the Zayandeh-Rud River basin management", *International Expert Meeting on Zayandeh-Rud River Sustainability*, Isfahan, Iran, January 11.
215. Simonovic, S.P. (2015), **invited lecture**, "Deriving Rainfall Intensity Duration Frequency Curves for Future Climate Scenarios: A Publically Accessible Computer Tool", *ICLR Advisory Committee*, Toronto, February 12.
216. Simonovic, S.P. (2015), **guest lecture**, "Systems Engineering Approach to the Reliability of Complex Hydropower Infrastructure", *Manitoba Hydro*, Winnipeg, February 20.
217. Simonovic, S.P. (2015), **invited lecture**, "Intensity-Duration-Frequency-Curves Under Climate Change Tool", *Civil Seminar*, The Department of Civil and Environmental Engineering, The University of Western Ontario, London, March 10.
218. Simonovic, S.P. (2015), **invited institute wide lecture**, "Managing Natural Disasters in a Changing Climate: Methods and Tools for a Systems Approach", *Asian Institute of Technology*, Bangkok, Thailand, March 24.
219. Simonovic, S.P. (2015), **invited lecture**, "Floods in a Changing Climate: Risk Management", *Advanced Institute on Disaster Risk Reduction and Loss Mitigation*, Taipei, Taiwan, April 22.
220. Simonovic, S.P. (2015), **invited lecture**, "Global Modelling of a Changing North: A System Dynamics Approach", *High North Workshop*, London, May 12.
221. Simonovic, S.P. (2015), **guest lecture**, "Overview of climate change research in FIDS – Western University", Center for Global Change and Water Cycle, College of Hydrology and Water Resources, Hohai University, Nanjing, May 25.
222. Simonovic, S.P. (2015), **invited lecture**, "Floods in a Changing Climate: Risk Management", *The International Top-Level Forum on Engineering Science and Technology Development Strategy*, Chinese Academy of Engineering and Ministry of Water Resources of China, Nanjing, May 29-30.

223. Simonovic, S.P. (2015), **keynote lecture**, "Managing Water Resources Under Global Change: Methods and Tools for a Systems Approach", *9th World Congress: Water Resources Management in a Changing World – Challenges and Opportunities*, EWRA, Istanbul, Turkey, June 10-13.
224. Simonovic, S.P. (2015), **guest lecture**, "Through Hell and High Water – Floods in a Changing Climate", *Academy of Criminalistic and Police Studies*, Belgrade, Serbia, June 15, (in Serbian).
225. Simonovic, S.P. (2015), **guest lecture**, "Water Resources Management: A new View under a Changing Climate", *Ministry of Agriculture and Environmental Protection, Environmental Protection Agency*, Belgrade, June 18, (in Serbian).
226. Simonovic, S.P. (2015), **guest lecture**, "From Disaster Risk Management to Quantitative Resilience: A Paradigm Shift", *Faculty of Security Studies, University of Belgrade*, Belgrade, June 22, (in Serbian).
227. Simonovic, S.P. (2015), **keynote lecture**, "Systems Engineering Approach to the Reliability of Complex Hydropower Infrastructure", *XXI Symposium of the Brazilian Water Resources Association (ABRH)*, Brasilia, Brazil, November 22-27.
228. Simonovic, S.P. (2015), **invited lecture**, "IDF Curves for Future Climate Scenarios", *Workshop on projection of extreme precipitation to support infrastructure design*, Environment Canada, Toronto, November 10.
229. Simonovic, S.P. (2015), **invited lecture**, "Doctoral Studies – North American Experience", *Panel Discussion – Doctoral Studies in Serbia: Where are we and where are we going?*, *Serbian Academy of Sciences and Arts*, Belgrade, December 8, (in Serbian).
230. Simonovic, S.P. (2015), **guest lecture**, "From Disaster Risk Management to Quantitative Resilience: A New Approach", *Academy of Criminalistic and Police Studies*, Belgrade, Serbia, December 15, (in Serbian).
231. Simonovic, S.P. (2016), **invited lecture**, "Floods in a Changing Climate: Risk Management", *IIHR-Hydroscience & Engineering*, Hydraulics Laboratory, The University of Iowa, Iowa City, Iowa, February 5.
232. Simonovic, S.P. (2016), **invited lecture**, "Mapping extreme rainfall statistics for Canada", *Friday Forum*, Institute for Catastrophic Loss Reduction, Toronto, March.
233. Simonovic, S.P. (2016), **CFEWA Distinguished Speakers Series lecture**, "Modelling the Water-Food-Energy Nexus", *Center for Energy and Water Advancement*, The University of Windsor, Windsor, March.
234. Simonovic, S.P. (2016), **guest lecture**, "Practical Resilience Metric for Analyses of Infrastructure Systems", *Department of Civil Engineering*, The University of Manitoba, Winnipeg, April.
235. Simonovic, S.P. (2016), **keynote lecture**, "Quantification of resilience to water scarcity, a dynamic measure in time and space", *7th International Water Resources Management Conference of IAHS ICWRS*, Bochum, Germany, May.
236. Simonovic, S.P. (2016), **invited lecture**, "Quantification of resilience for water resources risk management", *Risk 2016, 10th International Conference on Risk Analysis*, Crete, Greece, May.
237. Simonovic, S.P. (2016), **invited lecture**, "Evolution of statistical downscaling research at the University of Western Ontario - from K-nn weather generator to physically scaling method", *International Workshop on Application of Statistical Downscaling Methods at All Scales*, APEC Climate Center, Busan, Republic of Korea, June.
238. Simonovic, S.P. (2016), **guest lecture**, "From Risk Management to Quantitative Resilience: A Paradigm Shift", *Technical University of Denmark, Department of Environmental Engineering*, Copenhagen, Denmark, August.

239. Simonovic, S.P. (2016), **invited lecture**, "The Beauty of Resilience - Leaving the Chamber of Risks, Chaucer Seminar, That calls for Understanding Risk", *Chaucer*, Copenhagen, Denmark, August.
240. Simonovic, S.P. (2016), **honorary lecture**, "Practical Resilience Metric for Analyses of Infrastructure Systems", *The National Water and Wastewater Conference*, November 13-16, Toronto.
241. Simonovic, S.P. (2016), **invited lecture**, "From risk to resilience - evolution of the adaptation to globally changing conditions. Od upravljanja rizikom do rezilijentnosti - evolucija prilagođavanja globalnim promenama" (In Serbian), *Serbian Academy of Sciences and Arts*, December 12, Belgrade, Serbia.
242. Simonovic, S.P. (2017), **invited lecture**, "RESILIENCE - A New Metric for the Assessment of Measures for Improving Water Security", *Water Security under a Changing Environment - Comparing Challenges and Approaches in the United States and China, US NSF and NSF China workshop and the international conference of US Environmental and Water Resources Institute (EWRI) and Wuhan University*, January 5-6, Wuhan, China.
243. Simonovic, S.P. (2017), **invited lecture**, "IDF Curves for Future Climate Scenarios", *Workshop on Climate Change and Codes Adaptation* (by invitation only), National Research Council Canada, January 18-19, Ottawa.
244. Simonovic, S.P. (2017), **invited lecture**, "Practical issues in updating IDF curves for future climate: "Physics" vs climate models", *ICLR Friday Forum*. March 24, London.
245. Simonovic, S.P. (2017), **distinguished lecture**, "Resilience: A new metric for the assessment of measures for adaptation to global change", *College of Engineering, Florida Atlantic University*, March 31, Boca Raton, Florida, USA.
246. Simonovic, S.P. (2017), **guest lecture**, "A New Approach for Assessment of Hydropower System Safety", *Manitoba Hydro*, April 18, Winnipeg.
247. Simonovic, S.P. (2017), **keynote lecture**, "Floods in a Changing Climate: Risk Management", *8th Edition of the International Scientific Conference of Holguin University*, April 26, Holguin, Cuba.
248. Simonovic, S.P. (2017), **invited lecture**, "Resilience as the basis of safety culture", *Academy of Criminalistic and Police Studies*, May 23, Belgrade, Serbia (in Serbian).
249. Simonovic, S.P. (2017), **invited lecture**, "Future University – 1000 years old profession on the brink of fundamental change", *Serbian Academy of Sciences and Arts*, Belgrade, May 26, (in Serbian).
250. Simonovic, S.P. (2017), **invited lecture**, "Resilience: A new metric for the assessment of measures for adaptation to global change", *Beijing Normal University – College of Water Sciences*, June 21, Beijing, China.
251. Simonovic, S.P. (2017), **global vision forum lecture**, "Adapting to global change through increase of resilience", *China Institute of Water Resources and Hydropower Research*, June 23, Beijing, China.
252. Simonovic, S.P. (2017), **keynote lecture**, "Bringing future climatic change into water resources management practice today", *10th World Congress on Water Resources and Environment – Panta Rhei*, July 5-9, Athens, Greece.
253. Simonovic, S.P. (2017), **Inspiring Science Lecture**, "From Risk Management to Quantitative Disaster Resilience - A Paradigm Shift", University of Exeter, September 11, Exeter, UK
254. Simonovic, S.P. (2017), **keynote lecture**, "From Risk Management to Quantitative Disaster Resilience - A Paradigm Shift", Conference on Big Data and Information Analytics, University of Toronto, September 22, Toronto.

255. Simonovic, S.P. (2017), **US EPA System Exposure Division Seminar Series Lecture**, “RESILIENCE - A New Metric for the Assessment of Water Resources Management Measures”, US EPA SED , September 26, Cincinnati, OH, USA.
256. Simonovic, S.P. (2017), **invited lecture**, “Bringing Future Climatic Change into Water Resources Management Practice Today”, ESTDS2017 The Second International Top-Level Forum on Engineering Science and Technology Development Strategy , October 18-20, Nanjing, China.
257. Simonovic, S.P. (2017), **honorary lecture**, “Future of Civil Engineering: Challenges and Opportunities”, Department of Civil Engineering, Shanghai Normal University, October 23, Shanghai, China.
258. Simonovic, S.P. (2017), **invited lecture**, “One View of Future of Civil Engineering: Challenges and Opportunities –Gradjevinarstvo: Jedno Vidjenje Buducnosti”, (in Serbian) Department of Civil Engineering, The University of Belgrade, November 29, Belgrade, Serbia.
259. Simonovic, S.P. (2017), **invited lecture**, “A New Approach to Hydropower System Safety - Novi Pristup Proceni Sigurnosti Hidroenergetskih Sistema”, (in Serbian), Department of Civil Engineering, The University of Belgrade, November 29, Belgrade, Serbia.
260. Simonovic, S.P. (2018), **keynote lecture**, Natural Disaster Insurance Considerations in Operational Resilience, Chaucer Re-insurance group workshop, January 29, 2018, London, UK.
261. Simonovic, S.P. (2018), **invited lecture**, A new approach for assessment of hydropower system safety, Civil Seminar, February 6, 2018, The University of Western Ontario, London.
262. Simonovic, S.P. (2018), **invited lecture**, What modification to IDF should be considered due to climate change - one practical approach, International Workshop: Adaptation to Climate Change Impact on Rainstorm Flooding (by invitation only), National Research Council Canada, February 27, 2018, Ottawa.
263. Simonovic, S.P. (2018), **invited lecture**, Mapping climate change impacts on flood hazard in Canada, Workshop: Modeling of the Effects of Natural Hazards on the Built-Environment, Western University, March 27, 2018, London.
264. Simonovic, S.P. (2018), **invited lecture**, RESILIENCE - A New Metric for the Assessment of Measures for Adaptation to Global Change, Dalian University of Technology, May 2, 2018, Dalian, China.
265. Simonovic, S.P., A. Gaur, and A. Gaur (2018), **keynote lecture**, Modelling of Future Flood Risk Across Canada Under Climate Change, 11th International Conference on Risk Analysis and Hazard Mitigation Risk Analysis 2018, Proceedings, RISK2018, 144-156, June 6 - 8 June 2018, Seville, Spain.
266. Workshop on Urban Floods, **invited lecture**, ResilSIM—A Decision Support Tool for Estimating Resilience of Urban Systems to Flooding, Divecha Centre for Climate Change, and Interdisciplinary Centre for Water Research, Indian Institute of Science, June 27 - 29, 2018, Bangalore, India.
267. Simonovic, S.P. (2018), **keynote lecture**, A Systems Approach to Modelling Water-Energy-Food Nexus, The 4th International Conference on Water Resource and Environment (WRE 2018), July 17 – 21, 2018, Kaohsiung City, Taiwan.
268. Simonovic, S.P. (2018), **invited lecture**, Climate Change Impacts to Flooding, Ontario Flood Risk Management Workshop 2018: Floods Happen, Are You Ready , TRCA, September 19-20, 2018, Brampton.
269. Simonovic, S.P. (2018), **keynote lecture**, Resilience – An imperative for the Society Under Global Change, VIII International Scientific Conference "Archibald Reiss Days", Academy of Criminalistic and Police Studies, University of Belgrade, October 2-3, 2018, Belgrade, Serbia.

270. Simonovic, S.P. (2018), **invited lecture**, Addressing adaptation to climate change impacts at local level – Canadian experience, Climate change workshop, Milutin Milankovic Society, October 9, 2018, Belgrade, Serbia.
271. Simonovic, S.P. (2018), **keynote lecture**, From Flood Risk Management to Resilience -a new way of assessing adaptation to globally changing conditions, International Forum on Flood Management, 60th Anniversary of IWHR, October 19, Beijing, China.
272. Simonovic, S.P. (2018), **invited lecture**, ResilSIMt – web based tool for urban flood management for increase in resilience, Research Center on Flood and Drought Disaster reduction of the Ministry of Water Resources and IWHR, October 20, Beijing, China.
273. Simonovic, S.P. (2019), **invited lecture**, “A Systems Approach to Modelling Water-Energy-Food Nexus”, Croucher Advanced Study Institute - Global Water Security: Integrated Modelling and Adaptive Management - the Hong Kong University of Science and Technology, January 8-11, Hong Kong.
274. Simonovic, S.P. (2019), **invited lecture**, “Resilience – Criteria for Adaptation of Urban Systems to Global Change”, CEP – Center for Planning Urban Development, February 20, Belgrade, Serbia (available online at <https://www.facebook.com/cep.bgd.rs/videos/356521201608260/>) (in Serbian).
275. Simonovic, S.P. (2019), **invited lecture**, “Use of Quantitative Resilience in Managing Urban Infrastructure Response to Natural Hazards”, ADERSIM - Advanced Disaster Emergency and Rapid Response Simulation monthly seminar, March 27, York University, Toronto.
276. Simonovic, S.P. (2019), **WaterTalks lecture**, “Use of Quantitative Resilience in Managing Urban Infrastructure Response to Natural Hazards”, Water Institute, University of Waterloo, April 2, Waterloo (available on YouTube <https://www.youtube.com/watch?v=4hvNapg8vAs>) .
277. Simonovic, S.P. (2019), **special guest lecture**, “Modelling Future Flood Risk Across Canada Under Climate Change”, University of Guelph, School of Engineering, May 9, Guelph.
278. Simonovic, S.P. (2019), **invited lecture**, “Modelling of Future Flood Risk Across Canada Under Climate Change” , ICLR Friday Forum, Institute for Catastrophic Loss Reduction, May 31, 2019, Toronto (available on YouTube <https://www.youtube.com/watch?v=yI1myINDdlw>) .
279. Simonovic, S.P. (2019), **special guest lecture**, “Quantification of Multi-purpose Reservoir Resilience to Water Scarcity: a dynamic measure”, Institute for Water Development “Jaroslav Cerni”, July 16, Belgrade, Serbia (in Serbian).
280. Simonovic, S.P. (2019), **keynote lecture**, “Modelling of Future Flood Risk Across Canada Under Climate Change”, International Conference: The Life and Work of Milutin Milankovic - Past, Present, Future", University of Belgrade and Milutin Milankovic Association, July 19-21, Belgrade, Serbia.
281. Simonovic, S.P. (2019), **invited lecture**, “Rainfall Intensity Duration Frequency Curves for Future Climate Scenarios: A Publicly Accessible Computer Tool”, September 6, Program in Water Resources and Environmental Sanitation, Insituto De Pesquisas Hidraulics, Universidade Federal Do Rio Grande Do Sul, Porto Alegre, Brazil.
282. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Infrastructure systems under changing climate – Challenges and opportunities”, September 8, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
283. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Interdependent infrastructure systems under global change – from risk to resilience”, September 9, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.

284. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Rainfall Intensity Duration Frequency curves for future climate scenarios – A publicly accessible computer tool”, September 9, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
285. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Interdependent infrastructure systems under global change – Multi-hazard Resilience”, September 10, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
286. Simonovic, S.P. (2019), **distinguished scientist lecture**, “A new approach to hydropower system safety”, September 10, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
287. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Use of quantitative resilience in managing urban infrastructure response to natural hazards”, September 11, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
288. Simonovic, S.P. (2019), **distinguished scientist lecture**, “Modeling future flood risk across Canada under climate change”, September 11, School of Advanced Studies on Water and Society, University of Sao Paulo, Sao Carlos, Brazil.
289. Simonovic, S.P. (2019), **keynote lecture**, “Modelling Future Flood Risk Across Canada Under Climate Change – Management Implications”, Seminar of Flood Risk Management, Institute for Water and Hydropower Research, October 18, Beijing, China.
290. Simonovic, S.P. (2019), **invited plenary session presentation**, “Management of Floods as Adaptation to Global Change”, 2019 Annual Conference of the Chinese Hydraulic Engineering Society, October 22, Yichang, China.
291. Simonovic, S.P. (2019), **invited plenary session presentation**, “Advancing a Nexus Approach Toward Optimal Water Resources Management Under Global Change”, the International Symposium of Hydrological Sciences and High efficiency Water Resources Utilization under the Changing Environment (ISHW 2019), October 25, Wuhan, China.
292. Simonovic, S.P. (2019), **invited lecture**, “From Ven Te Chow to Ven Te Chow – Personal Story”, Commemoration of Ven Te Chow 100th Birthday, Shanghai Jiao Tong University, November 2, Shanghai, China.
293. Simonovic, S.P. (2019), **invited lecture**, “Multi-hazard resilience”, 2019 Western-ICLR Multi-hazard Risk and Resilience Workshop, November 4-5, London, Ontario.
294. Simonovic, S.P. (2019), **institute lecture**, “Resilience – Imperative of the Society Under Global Change”, Indian Institute of Technology Bombay, December 6, Mumbai, India.
295. Simonovic, S.P. (2019), **invited lecture**, “A Systems Approach to Modelling the Water-Energy-Food Nexus”, Department of Environmental Science and Engineering, Indian Institute of Technology Bombay, December 9, Mumbai, India.
296. Simonovic, S.P. (2019), **keynote lecture**, “Engineering Adaptation to Global Change: Management of Floods Case Study”, 5th International Conference on Modeling and Simulation in Civil Engineering, Thangal Kunju Musaliar College of Engineering, December 11, Kollam, Kerala, India.
297. Simonovic, S.P. (2020), **invited lecture**, “Modeling future flood risk across Canada under climate change”, Otter Valley Naturalists, February 10, Straffordville, Ontario.
298. Simonovic, S.P. (2020), **invited lecture**, “From Risk to Resilience”, the University of Belgrade, Faculty of Security Studies, September 19, Belgrade, Serbia (in Serbian).
299. Simonovic, S.P. (2020), **invited lecture**, “Application of resilience in water resources engineering – Canadian experience/Примена концепта резилијентности у водопривреди - Канадска искуства”, DyRes – Dynamic resilience as a measure for risk assessment of the

- complex water, infrastructure and ecological systems – project meeting, Jaroslav Cerni Institute, September 30, Belgrade, Serbia (in Serbian).
300. Simonovic, S.P. (2020), **keynote lecture**, “Quantitative Resilience - Potential Decision Making Criterion for Management of Disasters”, The Virtual International Conference: Security Crises in the 21st Century and how to Manage them”, October 13, Center for Risk Analysis and Crisis Management – CARUK, Belgrade, Serbia.
 301. Simonovic, S.P. (2020), **invited lecture**, “The role of climate in global change – from Milankovic’s time until the end of the 21st century”, International virtual conference - One hundred years of Milankovic’s theory of climate change, November 18, Milutin Milankovic Association, Belgrade, Serbia.
 302. Simonovic, S.P. (2020), **keynote lecture**, “From flood risk management to building resilience to flooding – implications for decision making”, International (online) conference on river morphology and flood control in Piura river, November 19, IAHR and Universidad de Piura, Peru.
 303. Simonovic, S.P. (2020), **new member lightning talk**, “Managing Water Resources Under Global Change”, Royal Society of Canada, COEE2020, November 28, University of Toronto (virtual), Toronto, Ontario.
 304. Simonovic, S.P., P. Breach and A. Schardong (2021), **invited lecture**, “ANEMI - A Model for Integrated Assessment of Global Change”, Integrated Food, Energy, and Water Systems (InFEWS) lecture series, February 8, University of Maryland (virtual), College Park, MD, USA.
 305. Simonovic, S.P. (2021), **invited lecture**, “Climate change - From risk to resilience”, Master of Engineering Leadership (MEL) Integrated Water Management, Hydrotechnical Engineering, and Environmental Fluid Mechanics Seminar, February 11, University of British Columbia (virtual), Vancouver, British Columbia.
 306. Simonovic, S.P. (2021), **keynote lecture**, “ANEMI- A Model for Integrated Assessment of Global Change”, Editor-in-Chief Forum (EICF2021), International Day of Forest and World Water Day, March 21, MDPI (virtual), Basel, Switzerland.
 307. Simonovic, S.P. (2021), **CAS lightning talk**, “GCE – Global Change Explorer”, Complex Adaptive Systems Lab, March 22, Western University (virtual), London, Ontario.
 308. Simonovic, S.P. (2021), **invited lecture**, “Modelling Future Flood Risk Across Canada Under Climate Change (expanded by COVID-19 pandemic)”, Nature London, April 23 (virtual), London, Ontario (available on YouTube at: <https://youtu.be/g-PwLIIVtN8>)
 309. Simonovic, S.P. (2021), **invited lecture**, “Floodplain Mapping Over Canada”, ICLR Friday Forum, June 18 (virtual), Toronto, Ontario (available on YouTube at: <https://www.youtube.com/watch?v=gkPd9d1GYzA&t=3344s>)
 310. Simonovic, S.P. (2021), **invited lecture**, “Rainfall Intensity Duration Frequency Curves for Future Climate Scenarios: A Publicly Accessible Computer Tool IDF_CC.” Annual conference, of the Hydrology Community of Practice in Alberta Environment and Parks, September 30 (virtual), Edmonton, Alberta.
 311. Simonovic, S.P. (2021), **keynote lecture**, “Systems Approach to Management of Water Resources: Towards Performance-based Water Resources Engineering”, 2nd International Symposium on Water, Ecology and Environment, ISWEE 2021, October 15-18 (virtual), Beijing, China.
 312. Simonovic, S.P. (2021), **keynote lecture**, “Prioritizing resilience to mitigate urban flooding under global change”, Economy of a water city, October 25 (virtual), Wroclaw, Poland.

313. Simonovic, S.P. (2021), **invited lecture**, “Floodplain mapping over large regions – Canada case study”, 90th Annual Chinese Hydraulic Engineering Society Conference (CHES 2021), Water Security Forum, October 26 (virtual), Beijing, China.
314. Simonovic, S.P. (2021), **invited lecture**, “Flood Impact Maps: A Standardized Approach of Understanding Vulnerable Landscapes”, Clean Air Partnership webinar, November 25 (virtual), Toronto, Ontario.
315. Simonovic, S.P. (2021), **keynote lecture**, “Resilience Criteria for Urban Flooding Decision Making”, 5th Forum on Urban Flood Control and Drainage Capacity, December 8 (virtual), Shanghai, China.
316. Simonovic, S.P. (2022), **invited lecture**, “Water Supply Capacity Building in the Context of Global Change”, IAHR webinar, Water Resources Resilience Under Climate Change, March 5 (virtual), China.
317. Simonovic, S.P. (2022), **invited plenary session presentation**, “Optimizing the Resilience of Interdependent Infrastructure to Natural Hazards”, Infrastructure and Civil Engineering World Forum, March 22 (virtual), Barcelona, Spain.
318. Simonovic, S.P. (2022), **guest lecture**, “Optimizing the Resilience of Interdependent Infrastructure to Natural Hazards”, Department of Civil Engineering, The University of Manitoba, April 18, Winnipeg, Manitoba.
319. Simonovic, S. P. (2022), **keynote lecture**, “Decision Support for Integrated Water Resources Management– From Global Change to Basin-Level Impacts”, 9th International Conference on Water Resources and Environment Research, University of Central Florida, April 25 - 27, (virtual), Orlando, Florida (USA)

Technical Reports

1. Djordjevic, B. and S.P. Simonovic (1974), "Study of the Integral Development of the Vardar River Basin (Optimal Design and Operation of the System of Multipurpose Reservoirs)", UNDP and the Institute for the Development of Water Resources, Yugoslavia (in Serbian).
2. Simonovic, S.P. and S. Prohaska (1975), "Supplementary Hydrologic Study on the Management of the Sava River Basin (Stage I), Institute for the Development of Water Resources, Yugoslavia (in Serbian).
3. Djordjevic, B. and S.P. Simonovic (1974, 1975, 1976), "Lump Power Potential of Yugoslavian Rivers", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
4. Miloradov, M., S. Opricovic and S.P. Simonovic (1978), "The Mathematical Model of Unsteady Flow and its Application to Water Reservoir Control with Daily Regulation", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
5. Simonovic, S.P. (1978), "Flood Control Study of the Morava River Basin", UNDP and the Institute for the Development of Water Resources, Yugoslavia (in Serbian).
6. Simonovic, S.P. and G.T. Orlob (1981), "Incorporation of External Optimization Capability with the Computer Program HEC-5", Department of Civil Engineering, University of California, Davis.
7. Simonovic, S.P. and M.A. Marino (1981), "Reservoir System Planning and Design by Reliability Programming", Water Science and Engineering Paper no. 5005, University of California, Davis.
8. Simonovic, S.P., M. Miloradov and S. Opricovic (1983), "Study of the Optimal Control of Two Power Plants on the River Danube", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
9. Simonovic, S.P. and M. Miloradov (1982), "Optimal Allocation of the Danube River Hydropower Potential Between Yugoslavia and Romania", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
10. Simonovic, S.P. and S. Prohaska (1983, 1984), "Simulation Model of the River Sava", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
11. Simonovic, S.P. and M. Andjelic (1982, 1983), "Water Resources Information System for the Republic of Serbia", Institute "Mihajlo Pupin" and the Institute for the Development of Water Resources, Yugoslavia (in Serbian).
12. Simonovic, S.P. (1984, 1985, 1986), "Water Resources Master Plan for the Drava and Danube River Basins in the Republic of Croatia", Institute for the Development of Water Resources and the Water Consulting Co. "Drava-Dunav", Yugoslavia (in Serbian).
13. Simonovic, S.P. (1984, 1985), "Methodology for the Valuation of the Multipurpose Water Projects", Institute for the Development of Water Resources, Yugoslavia (in Serbian).
14. Bruk, S., S.P. Simonovic and S. Canovic (1983, 1984, 1985), "Water Resources Master Plan for the Republic of Serbia", Institute for the Development of Water Resources and the Engineering and Consulting Co. Energoprojekt, Yugoslavia (in Serbian).
15. Simonovic, S.P. (1987), "A Feasibility Study of an Expert System for Reservoir Operations", University of Manitoba, A Report to Manitoba Hydro.
16. Simonovic, S.P. (1987), "Numerical Aspects of Long Term Water Resources Planning", Water Resources Research Report No. 1, The University of Manitoba.
17. Simonovic, S.P. and K. Barlishen (1987), "Expert Systems in Water Resources Systems Analysis - Literature Review", Water Resources Research Report No. 4, The University of Manitoba.

18. Savic, D. and S.P. Simonovic (1988), "A Pilot Intelligent Decision-Support System for Reservoir Analysis", Water Resources Research Report No. 8, The University of Manitoba.
19. Douglas, G.G., and S.P. Simonovic (1990), "Development of an Advisory System for the Selection of a Flow Measurement Method", Water Resources Research Report No. 16, The University of Manitoba.
20. Parry, J-E., J., and S.P. Simonovic (1990), "Shellmouth Reservoir Simulation Investigation Using Various Downstream Demands", Water Resources Research Report No. 17, The University of Manitoba.
21. Penner, W.V., and S.P. Simonovic (1991), "Multiple Nonlinear Standardized Correlation Analysis of Several Manitoba Streams", Water Resources Research Report No. 19, The University of Manitoba.
22. Douglas, G.G., and S.P. Simonovic (1992), "An Expert System Approach to Stage-Discharge Analysis", Water Resources Research Report No. 22, The University of Manitoba.
23. Gawne, K., and S.P. Simonovic (1992), "A Computer Subsystem for Generating Optimal Stage-discharge Rating Curve Model Using Linear Regression", Water Resources Research Report No.23, The University of Manitoba.
24. Tkach, R.J., and S.P. Simonovic (1992), "Reevaluation of the Shellmouth Reservoir Management Policy", Water Resources Research Report No. 24, The University of Manitoba.
25. Simonovic, S.P. (1993), "A New Methodology for Establishing Multiobjective Analysis Weights in Water Resources Planning", European Community AFORIZAM Project, Bologna, Italy.
26. Simonovic, S.P. (1993), "Intelligent Decision Support for Real-Time Flood Forecasting", European Community AFORIZAM Project, Bologna, Italy.
27. DeGagne, M.P.J., and S.P. Simonovic (1993), "An Expert System Approach to Stage-Discharge Analysis", Water Resources Research Report No. 26, The University of Manitoba.
28. Simonovic, S.P. (1994), "Optimization of Large Sihü Drainage System in China", report for Agra E&E, Calgary.
29. Christensen, S., and S.P. Simonovic (1995), "Use of the River Analysis System HEC-RAS", Water Resources Research Report No. 30, The University of Manitoba.
30. Bender, M.J., and S.P. Simonovic (1995), "On the Use of GRASS for Preparation of Water Resources Planning and Management Case Studies", Water Resources Research Report No.31, The University of Manitoba.
31. Higer, F., and S.P. Simonovic (1996), "Sustainable Groundwater Management", Water Resources Research Report No. 33, The University of Manitoba.
32. Bender, M.J., and S.P. Simonovic (1996), "Fuzzy Compromise Programming", Water Resources Research Report No. 34, The University of Manitoba.
33. Srinivasan , R. and S.P. Simonovic (1996), "Planning the Operation of Reservoirs for Energy Generation: A Comprehensive Review", Water Resources Research Report No. 35, The University of Manitoba.
34. Tkach, R.J., and S.P. Simonovic (1997), "Floodplain Analysis Using GIS ", Water Resources Research Report No.36, The University of Manitoba.
35. Despic, O. and S.P. Simonovic (1997), "Methods in Evaluating Qualitative Criteria in Water Resources Multi-Criteria Decision Making", Water Resources Research Report, No. 37, The University of Manitoba.
36. Morris-Oswald, M. and S.P. Simonovic (1997), "Assessment of the Social Impact of Flooding for Use in Flood Management in the Red River Basin", Report prepared for the International Joint Commission, Slobodan P. Simonovic Consulting Engineer Inc., Winnipeg (available online at: <http://www.ijc.org/php/publications/html/assess.html>).

37. International Red River Basin Task Force (1997), "Red River Flooding: Short-Term Measures", Interim Report to the International Joint Commission, Ottawa, Washington (available online at: <http://www.ijc.org/php/publications/html/taskforce.html>).
38. Morris-Oswald, M., J. Sinclair, and S.P. Simonovic (1998), "Assessment of Flood Damage Reduction along the Red River ", Report to the Environment Canada, Environmental Adaptation Research Group, Toronto.
39. Simonovic, S.P. (1998), "Decision Support System for Flood Management in the Red River Basin", Report prepared for the International Joint Commission, Slobodan P. Simonovic Consulting Engineer Inc., Winnipeg.
40. Morris-Oswald, M., J. Sinclair, and S.P. Simonovic (1999), "Assessment of Flood Damage Reduction along the Red River ", Water Resources Research Report, No. 38, The University of Manitoba.
41. Juliano, K., and S.P. Simonovic (1999), "The Impact of Wetlands on Flood Control in the Red River Valley of Manitoba", Report prepared for the International Joint Commission, Natural Resources Institute, University of Manitoba, Winnipeg.
42. International Red River Basin Task Force (2000), "The Next Flood: Getting Prepared", Final Report to the International Joint Commission, Ottawa, Washington, (available online at <http://www.ijc.org/php/publications/html/living.html>).
43. Simonovic, S.P. (2001), "[Assessment of the impact of climate variability and change on the reliability, resiliency and vulnerability of complex flood protection systems](#)", Water Resources Research Report no. 038, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 91 pages. ISBN: (print) 978-0-7714-2606-3; (online) 978-0-7714-2607-0.
44. Elshorbagy, A., U.S. Panu, and S.P. Simonovic (2001), "Estimation of Missing Hydrological Data Based on Group Concept", Civil Engineering Research Series Report No. CE-01-1, Lakehead University, Thunder Bay.
45. Nirupama, and S.P. Simonovic (2002), "Role of Remote Sensing in Disaster Management", ICLR Research Paper Series, No.21, Institute for Catastrophic Loss Reduction, Toronto, Canada. Also published as "[Role of remote sensing in disaster management](#)", Water Resources Research Report no. 040, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 107 pages. ISBN: (print) 978-0-7714-2610-0; (online) 978-0-7714-2611-7.
46. Akter, T., and S.P. Simonovic (2002), "[A general overview of multi-objective multiple-participant decision making for flood management](#)", Water Resources Research Report no. 041, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 65 pages. ISBN: (print) 978-0-7714-2612-4; (online) 978-0-7714-2613-1.
47. Nirupama and S.P. Simonovic (2002), "[A spatial fuzzy compromise approach for flood disaster management](#)", Water Resources Research Report no. 042, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 138 pages. ISBN: (print) 978-0-7714-2614-8; (online) 978-0-7714-2615-5.
48. Simonovic, S.P. (2002), "A Spatial Fuzzy Compromise Approach for Disaster Management", ICLR Research Paper Series, No. 24, Institute for Catastrophic Loss Reduction, Toronto, Canada (available online at: http://www.iclr.org/pdf/SFCP_short_report.pdf).
49. Nandalal, K. D. W. and S. P. Simonovic (2002), "State-of-the-Art Report on Systems Analysis Methods for Resolution of Conflicts in Water Resources Management ", Division of Water

- Sciences, UNESCO-IHP, (available online at: <http://www.eng.uwo.ca/research/iclr/fids/publications/products/PCCPreport.pdf>). Also published as "[State-of-the-Art Report on Systems Analysis Methods for Resolution of Conflicts in Water Resources Management](#)", Water Resources Research Report no. 043, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 216 pages. ISBN: (print) 978-0-7714-2616-2; (online) 978-0-7714-2617-9.
50. Shrubsole, D., G. Brooks, R. Halliday, E. Haque, A. Kumar, J. Lacroix, H. Rasid, J. Rousselle, and S. P. Simonovic (2003), "An Assessment of Flood Risk Management in Canada", ICLR Research Paper Series, No. 28, Institute for Catastrophic Loss Reduction, Toronto, Canada, (available online at: http://www.iclr.org/pdf/ICLR_%20Flood%20Report.pdf).
 51. Nandalal, K. D. W., and S. P. Simonovic (2003), "Conflict Resolution Support Systems - A Software for the Resolution of Conflicts in Water Resource Management", Division of Water Sciences, UNESCO-IHP, available online at: http://www.eng.uwo.ca/research/iclr/fids/publications/products/CRSS_report.pdf). Also published as "[Conflict Resolution Support System - A Software for the Resolution of Conflicts in Water Resource Management](#)", Water Resources Research Report no. 044, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 144 pages. ISBN: (print) 978-0-7714-2618-6; (online) 978-0-7714-2619-3.
 52. El-Baroudy, I., and S.P. Simonovic (2003), "[New Fuzzy Performance Indices for Reliability Analysis of Water Supply Systems](#)", Water Resources Research Report no. 045, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 90 pages. ISBN: (print) 978-0-7714-2620-9; (online) 978-0-7714-2621-6.
 53. Cunderlik, J., and S.P. Simonovic (2003), "[Hydrologic Model Selection for the CFCAS Project: Assessment of Water Resources Risk and Vulnerability to Changing Climatic Conditions](#)". Water Resources Research Report no. 046, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 40 pages. ISBN: (print) 978-0-7714-2622-3; (online) 978-0-7714-2623-0.
 54. Simonovic, S.P. (2004), "Flood Management in the Red River Basin, Canada", Case Study Report prepared for the Associate Programme on Flood Management, World Meteorological Organization, Geneva, Switzerland, May, (available online at: http://www.apfm.info/pdf/case_studies/cs_canada.pdf) .
 55. Cunderlik, J., and S.P. Simonovic (2004), "[Selection of Calibration and Verification Data for the HEC-HMS Hydrologic Model](#)". Water Resources Research Report no. 047, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 29 pages. ISBN: (print) 978-0-7714-2624-7; (online) 978-0-7714-2625-4.
 56. Cunderlik, J., and S.P. Simonovic (2004), "[Calibration, verification and sensitivity analysis of the HEC-HMS hydrologic model](#)". Water Resources Research Report no. 048, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 113 pages. ISBN: (print) 978-0-7714-2626-1; (online) 978-0-7714-2627-8..

57. Prodanovic, P., and S.P. Simonovic (2004), "[Generation of synthetic design storms for the Upper Thames River basin](#)". Water Resources Research Report no. 049, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 20 pages. ISBN: (print) 978-0-7714-2628-5; (online) 978-0-7714-2629-2.).
58. El-Baroudy, I., and S.P. Simonovic (2005), "[Application of the Fuzzy Performance Indices to the City of London Water Supply system](#)", Water Resources Research Report no. 050, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 137 pages. ISBN: (print) 978-0-7714-2630-8; (online) 978-0-7714-2631-5.).
59. Simonovic, S.P. (2005), "Inverse modeling of water resources risk and vulnerability under changing climatic conditions", The progress report of ICCAP (The research project on the impact of climate changes on agricultural production system in arid areas), Research Institute for Humanity and Nature, Kyoto, Japan, ICCAP Publication 7:34-43.
60. Wescoat, J.L, P. Chow-Fraser, D.N.D. Hartford, J.K. Keough, L.A. Maguire, J. Makarewicz, D.C. McKinney, D.H. Moreau, S.P. Simonovic, and P.A. Zielinski (2006), "Review of the Lake Ontario-St. Lawrence River Studies", National Research Council of the National Academies, The National Academies Press, Washington, D.C., USA, (available online at <http://fermat.nap.edu/catalog/11481.html>).
61. Fujihara, Y., S.P. Simonovic, F. Topaloglu, T. Watanabe and K. Tanaka (2006; 2007), "Inverse Modeling Approach to Assess the Impacts of Climatic Change on Water Resources Management on the Watershed Scale", The progress report of ICCAP (The research project on the impact of climate changes on agricultural production system in arid areas), Research Institute for Humanity and Nature, Kyoto, Japan, ICCAP Publication 8:91-97, 2006; The final report of ICCAP (The research project on the impact of climate changes on agricultural production system in arid areas), Research Institute for Humanity and Nature, Kyoto, Japan, ICCAP Publication 10:95-101, 2007.
62. El-Baroudy, I. and S. P. Simonovic (2006), "[A Decision Support System for Integrated Risk Management](#)", Water Resources Research Report no. 051, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 146 pages. ISBN: (print) 978-0-7714-2632-2; (online) 978-0-7714-2633-9.).
63. Prodanovic, P. and S.P. Simonovic (2006), "[Inverse Flood Risk Modelling of The Upper Thames River Basin](#)". Water Resources Research Report no. 052, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 163 pages. ISBN: (print) 978-0-7714-2634-6; (online) 978-0-7714-2635-3.
64. Prodanovic, P. and S.P. Simonovic (2006), "[Inverse Drought Risk Modelling of The Upper Thames River Basin](#)". Water Resources Research Report no. 053, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 252 pages. ISBN: (print) 978-0-7714-2636-0; (online) 978-0-7714-2637-7.).
65. Prodanovic, P. and S.P. Simonovic (2007), "[Dynamic Feedback Coupling of Continuous Hydrologic and Socio-Economic Model Components of the Upper Thames River Basin](#)". Water Resources Research Report no. 054, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 437 pages. ISBN: (print) 978-0-7714-2638-4; (online) 978-0-7714-2639-1.)

66. Karmakar, S. and S.P. Simonovic (2007), "[Flood frequency analysis using copula with mixed marginal distributions.](#)" Water Resources Research Report no. 055, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 144 pages. ISBN: (print) 978-0-7714-2658-2; (online) 978-0-7714-2659-9.
67. Black, J., S. Karmakar and S. P. Simonovic (2007). "[A web-based flood information system.](#)" Water Resources Research Report no. 056, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 133 pages. ISBN: (print) 978-0-7714-2660-5; (online) 978-0-7714-2661-2.
68. Peck, A., S. Karmakar and S. P. Simonovic (2007). "[Physical, economical, infrastructural and social flood risk - vulnerability analyses in GIS.](#)" Water Resources Research Report no. 057, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 79 pages. ISBN: (print) 978-0-7714-2662-9; (online) 978-0-7714-2663-6.
69. Prodanovic, P. and S. P. Simonovic (2007). "[Development of rainfall intensity duration frequency curves for the City of London under the changing climate.](#)" Water Resources Research Report no. 058, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 51 pages. ISBN: (print) 978-0-7714-2667-4; (online) 978-0-7714-2668-1.
70. Davies G. R. E., and S. P. Simonovic (2008). "[An integrated system dynamics model for analyzing behaviour of the social-economic-climatic system: Model description and model use guide.](#)" Water Resources Research Report no. 059, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 233 pages. ISBN: (print) 978-0-7714-2679-7; (online) 978-0-7714-2680-3.
71. Simonovic, S.P (2008). "[Engineering Literature Review: Water Resources - Infrastructure Impacts, Vulnerabilities and Design Considerations for Future Climate Change](#)", in Adapting to Climate Change, Canada's First National Engineering Vulnerability Assessment of Public Infrastructure – Appendix C Literature Reviews, Engineers Canada, April 2008, pp.48.
72. Kennedy, K., S.P. Simonovic, A. Tejada-Guibert, M. de Franca Doria, and J.L. Martin (2009). "IWRM Implementation in Basins, Sub-basins and Aquifers: State of the Art Review", World Water Assessment Programme, Side Publication series, INSIGHTS, UNESCO, Paris, France, pp.20.
73. Shrestha, R.R. and S. P. Simonovic (2009). [A Fuzzy Set Theory Based Methodology for Analysis of Uncertainties in Stage-Discharge Measurements and Rating Curve.](#) Water Resources Research Report no. 061, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 104 pages. ISBN: (print) 978-0-7714-2707-7; (online) 978-0-7714-2708-4.
74. Eum, H-I., V. Arunachalam and S. P. Simonovic (2009). [Integrated Reservoir Management System for Adaptation to Climate Change Impacts in the Upper Thames River Basin.](#) Water Resources Research Report no. 062, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 81 pages. ISBN: (print) 978-0-7714-2710-7; (online) 978-0-7714-2711-4.
75. Davies, E.G.R. and S. P. Simonovic (2009). [Energy Sector for the Integrated System Dynamics Model for Analyzing Behaviour of the Social-Economic-Climatic Model.](#) Water Resources Research Report no. 063, Facility for Intelligent Decision Support, Department of Civil and

- Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 191 pages. ISBN: (print) 978-0-7714-2712-1; (online) 978-0-7714-2713-8.
76. King, L., T. Solaiman and S.P. Simonovic. (2009). [Assessment of Climatic Vulnerability in the Upper Thames River Basin](#). Water Resources Report no. 064, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 62 pages. ISBN: (print) 978-0-7714-2816-6; (online) 978-0-7714-2817-3.
 77. Simonovic, S.P. and A. Peck (2009). [Updated rainfall intensity duration frequency curves for the City of London under the changing climate](#). Water Resources Research Report no. 065, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 64 pages. ISBN: (print) 978-0-7714-2819-7; (online) 978-0-7714-2820-3.
 78. King, L., T. Solaiman and S.P. Simonovic. (2009). [Assessment of Climatic Vulnerability in the Upper Thames River Basin: Part 2](#). Water Resources Report no. 066, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 73 pages. ISBN: (print) 978-0-7714-2834-0; (online) 978-0-7714-2835-7.
 79. Popovich, C.J., S.P. Simonovic and G.A. McBean (2010). [Use of an Integrated System Dynamics Model for Analyzing Behaviour of the Social-Economic-Climatic System in Policy Development](#). Water Resources Research Report no. 067, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 37 pages. ISBN: (print) 978-0-7714-2838-8; (online) 978-0-7714-2839-5.
 80. Eum, H-I, and S. P. Simonovic (2009). [City of London: Vulnerability of Infrastructure to Climate Change, Background Report #1 - Climate and Hydrologic Modeling](#). Water Resources Research Report no. 068, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 103 pages. ISBN: (print) 978-0-7714-2844-9; (online) 978-0-7714-2845-6.
 81. Sredojevic, D. and S. P. Simonovic (2009). [City of London: Vulnerability of Infrastructure to Climate Change, Background Report #2 - Hydraulic Modeling and Floodplain Mapping](#). Water Resources Research Report no. 069, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 147 pages. ISBN: (print) 978-0-7714-2846-3; (online) 978-0-7714-2847-0.
 82. McBean, G.A., I. Ajibade, D. Cunningham, B. Dowsett, M. Harris, R. Lannigan, C. Popovich, E. Riddell-Dixon, C. Rodgers, and S. P. Simonovic, (2011). [The Security of Canada and Canadians: Implications of Climate Change](#). A Knowledge Synthesis Research Project Report. The University of Western Ontario, 296 pages.
 83. Solaiman, T.A. and S. P. Simonovic (2011). [Quantifying Uncertainties in the Modelled Estimates of Extreme Precipitation Events at Upper Thames River Basin](#). Water Resources Research Report no. 070, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 167 pages. ISBN: (print) 978-0-7714-2878-4; (online) 978-0-7714-2880-7.
 84. Solaiman, T.A. and S. P. Simonovic (2011). [Assessment of Global and Regional Reanalyses Data for Hydro-Climatic Impact Studies in the Upper Thames River Basin](#). Water Resources Research Report no. 071, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 74 pages. ISBN: (print) 978-0-7714-2892-0; (online) 978-0-7714-2899-9.

85. Solaiman, T.A. and S.P. Simonovic (2011). [Development of Probability Based Intensity-Duration-Frequency Curves under Climate Change](#). Water Resources Research Report no. 072, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 89 pages. ISBN: (print) 978-0-7714-2893-7; (online) 978-0-7714-2900-2.
86. Vucetic, D. and S.P. Simonovic (2011). [Water Resources Decision Making Under Uncertainty](#). Water Resources Research Report no. 073, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 143 pages. ISBN: (print) 978-0-7714-2894-4; (online) 978-0-7714-2901-9.
87. Peck, A., E. Bowering, and S. P. Simonovic (2011). [City of London: Vulnerability of Infrastructure to Climate Change, Final Report](#). Water Resources Research Report no. 074, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 66 pages. ISBN: (print) 978-0-7714-2895-1; (online) 978-0-7714-2902-6.
88. Akhtar, M.K., S.P. Simonovic, J. Wibe, J. acGee and J. Davies (2011). [An Integrated System Dynamics Model for Analyzing Behaviour of the Social-Energy-Economy-Climate System: Model Description](#). Water Resources Research Report no. 075, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 211 pages. ISBN: (print) 978-0-7714-2896-8; (online) 978-0-7714-2903-3.
89. Akhtar, M.K., S.P. Simonovic, J.Wibe, J. MacGee and J. Davies (2011). [An Integrated System Dynamics Model for Analyzing Behaviour of the Social-Energy-Economy-Climate System: User's Manual](#). Water Resources Research Report no. 076, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 161 pages. ISBN: (print) 978-0-7714-2897-5; (online) 978-0-7714-2904-0.
90. Millington, N., S. Das, and S.P. Simonovic (2011). [The Comparison of GEV, Log-Pearson Type 3 and Gumbel Distributions in the Upper Thames River Watershed under Global Climate Models](#). Water Resources Research Report no. 077, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 53 pages. ISBN: (print) 978-0-7714-2898-2; (online) 978-0-7714-2905-7.
91. Simonovic, S.P., and N. Agam (2011). "Selection of Global Climate Models for use with MRAT Project", Report prepared for the Insurance Bureau of Canada, Institute for Catastrophic Loss Reduction, Toronto, Canada, 85 pages.
92. Schardong, S. and S.P. Simonovic (2011). [Multi-objective Evolutionary Algorithms for Water Resources Management](#). Water Resources Research Report no. 078, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 167 pages. ISBN: (print) 978-0-7714-2907-1; (online) 978-0-7714-2908-8.
93. Das, S. and S.P. Simonovic (2012). [Assessment of Uncertainty in Flood Flows under Climate Change](#). Water Resources Research Report no. 079, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 67 pages. ISBN: (print) 978-0-7714-2960-6; (online) 978-0-7714-2961-3.

94. Sarwar, R., S.E. Irwin, L. King and S.P. Simonovic (2012). [Assessment of Climatic Vulnerability in the Upper Thames River basin: Downscaling with SDSM](#). Water Resources Research Report no. 080, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 65 pages. ISBN: (print) 978-0-7714-2962-0; (online) 978-0-7714-2963-7.
95. Irwin, S.E., R. Sarwar, L. King and S.P. Simonovic (2012). [Assessment of Climatic Vulnerability in the Upper Thames River basin: Downscaling with LARS-WG](#). Water Resources Research Report no. 081, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 80 pages. ISBN: (print) 978-0-7714-2964-4; (online) 978-0-7714-2965-1.
96. Das, S., and S.P. Simonovic (2012). [Guidelines for Flood Frequency Estimation under Climate Change](#). Water Resources Research Report no. 082, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 34 pages. ISBN: (print) 978-0-7714-2973-6; (online) 978-0-7714-2974-3 .
97. Simonovic, S.P., and D. Vucetic (2012). "Updated IDF curves for London, Hamilton, Moncton, Fredericton and Winnipeg for use with MRAT Project", Report prepared for the Insurance Bureau of Canada, Institute for Catastrophic Loss Reduction, Toronto, Canada, 94 pages.
98. Simonovic, S.P., and D. Vucetic (2013). "Updated IDF curves for Bathurst, Coquitlam, St. John's and Halifax for use with MRAT Project", Report prepared for the Insurance Bureau of Canada, Institute for Catastrophic Loss Reduction, Toronto, Canada, 54 pages.
99. Peck, A., and S.P. Simonovic (2013). [Coastal Cities at Risk \(CCaR\): Generic System Dynamics Simulation Models for Use with City Resilience Simulator](#). Water Resources Research Report no. 083, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 55 pages. ISBN: (print) 978-0-7714-3024-4; (online) 978-0-7714-3025-1.
100. Gaur, A., and S.P. Simonovic (2013). [Climate Change Impact on Flood Hazard in the Grand River Basin, Ontario, Canada](#). Water Resources Research Report no. 084, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 92 pages. ISBN: (print) 978-0-7714-3063-3; (online) 978-0-7714-3064-0.
101. Srivastav, R.K., and S.P. Simonovic (2014). [Generic Framework for Computation of Spatial Dynamic Resilience](#). Water Resources Research Report no. 085, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 82 pages. ISBN: 978-0-7714-3067-1; (online) 978-0-7714-3068-8.
102. Peck, A. Neuwirth, C. and S.P. Simonovic (2014). [Coupling System Dynamics with Geographic Information Systems: CCaR Project Report](#) Water Resources Research Report no. 086, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 60 pages. ISBN: (print) 978-0-7714-3069-5; (online) 978-0-7714-3070-1.
103. Irwin, S.E., R. Srivastav and S.P. Simonovic (2014). [Instruction for Watershed Delineation in an ArcGIS Environment for Regionalization Studies](#). Water Resources Research Report no. 087, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 45 pages. ISBN: (print) 978-0-7714-3071-8; (online) 978-0-7714-3072-5.

104. Schardong, A., R. K. Srivastav and S. P. Simonovic (2014). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves under a Changing Climate: Users Manual v.1](#) Water Resources Research Report no. 088, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 68 pages. ISBN: (print) 978-0-7714-3085-5; (online) 978-0-7714-3086-2.
105. Srivastav, R.K., A. Schardong and S. P. Simonovic (2014). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves under a Changing Climate: Technical Manual v.1](#) Water Resources Research Report no. 089, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 62 pages. ISBN: (print) 978-0-7714-3087-9; (online) 978-0-7714-3088-6.
106. Srivastav, R. K. and S. P. Simonovic (2014). [Simulation of Dynamic Resilience: A Railway Case Study](#). Water Resources Research Report no. 090, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 91 pages. ISBN: (print) 978-0-7714-3089-3; (online) 978-0-7714-3090-9.
107. Agam, N., and S.P. Simonovic (2015). [Development of Inundation Maps for the Vancouver Coastline Incorporating the Effects of Sea Level Rise and Extreme Events](#). Water Resources Research Report no. 091, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 107 pages. ISBN: (print) 978-0-7714-3092-3; (online) 978-0-7714-3094-7.
108. Irwin, S., R. Srivastav, and S.P. Simonovic (2015). [Instructions for Operating the Proposed Regionalization Tool "Cluster-FCM" Using Fuzzy C-Means Clustering and L-Moment Statistics](#). Water Resources Research Report no. 092, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 50 pages. ISBN: (print) 978-0-7714-3101-2; (online) 978-0-7714-3102-9.
109. Pavlovic, B. and S. P. Simonovic (2016). [Automated Control Flaw Generation Procedure: Cheakamus Dam Case Study](#). Water Resources Research Report no. 093, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 78 pages. ISBN: (print) 978-0-7714-3113-5; (online) 978-0-7714-3114-2.
110. Irwin, S., S.P. Simonovic and Nirupama (2016). [Introduction to ResilSIM: A Decision Support Tool for Estimating Disaster Resilience to Hydro-Meteorological Events](#). Water Resources Research Report no. 094, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 66 pages. ISBN: (print) 978-0-7714-3115-9; (online) 978-0-7714-3116-6.
111. Kokas, T., S. P. Simonovic and A. Binns (2016). [Flood Risk Management in Canadian Urban Environments: A Comprehensive Framework for Water Resources Modeling and Decision-Making](#). Water Resources Research Report no. 095, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 54 pages. ISBN: (print) 978-0-7714-3117-3; (online) 978-0-7714-3118-0.
112. Kong, J., and S.P. Simonovic (2016). [Interdependent Infrastructure Network Resilience Model with Joint Restoration Strategy](#). Water Resources Research Report no. 096, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The

- University of Western Ontario, London, Ontario, Canada, 83 pages. ISBN: (print) 978-0-7714-3132-6; (online) 978-0-7714-3133-3.
113. Mandal, S., P.A. Breach, A. Gaur, and S.P. Simonovic (2017). [Tools for Downscaling Climate Variables: A Technical Manual](#). Water Resources Research Report no. 097, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 95 pages. ISBN: (print) 978-0-7714-3135-7; (online) 978-0-7714-3136-4.
 114. Arunkumar, R. and S. P. Simonovic (2017). [General Methodology for Developing a CFD Model for Studying Spillway Hydraulics using ANSYS Fluent](#). Water Resources Research Report no. 098, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 39 pages. ISBN: (print) 978-0-7714-3148-7; (online) 978-0-7714-3149-4.
 115. Schardong, A., S.P. Simonovic, and D. Sandink (2017). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate: Technical Manual v.2.1](#). Water Resources Research Report no. 099, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 52 pages. ISBN: (print) 978-0-7714-3150-0; (online) 978-0-7714-3151-7.
 116. Schardong, A., S.P. Simonovic, and D. Sandink (2017). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate: User's Manual v.2.1](#). Water Resources Research Report no. 100, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 69 pages. ISBN: (print) 978-0-7714-3152-4; (online) 978-0-7714-3153-1.
 117. Gaur, A., A. Gaur and S. P. Simonovic (2017). [Modelling of High Resolution Flow from GCM Simulated Runoff using a Mesoscale Hydrodynamic Model: CAMA-FLOOD](#). Water Resources Research Report no. 101, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 44 pages. ISBN: (print) 978-0-7714-3154-8; (online) 978-0-7714-3155-5.
 118. Kong, J. and S. P. Simonovic (2017). [Multi-hazard resilience model of an interdependent infrastructure system](#). Water Resources Research Report no. 102, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 99 pages. ISBN: (print) 978-0-7714-3158-6; (online) 978-0-7714-3159-3.
 119. Schardong, A., A. Gaur, S. P. Simonovic and D. Sandink (2021). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate: Technical Manual v.4.5](#). Water Resources Research Report no. 103, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 67 pages. ISSN: 1913-3219 ISBN: 978-0-7714-3107-4.
 120. Schardong, A., A. Gaur, S. P. Simonovic and D. Sandink (2021). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate: User's Manual v.4.5](#). Water Resources Research Report no. 104, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 80 pages. ISSN: 1913-3219 ISBN: 978-0-7714-3108-1.
 121. Schardong, A., S. P. Simonovic and H. Tong (2018). [Use of Quantitative Resilience in Managing Urban Infrastructure Response to Natural Hazards: A Web-Based Decision Support Tool - ResilSIMt](#). Water Resources Research Report no. 105, Facility for Intelligent Decision Support,

- Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 112 pages. ISBN: 978-0-7714-3115-7.
122. Feitoza Silva D. and S. P. Simonovic (2020). [Development of Non-Stationary Rainfall Intensity Duration Frequency Curves for Future Climate Conditions](#). Water Resources Research Report no. 106, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 48 pages. ISBN:(print) 978-0-7714-3137-1; (online) 978-0-7714-3138-8.
 123. Braden, J. and S.P. Simonovic (2020). [A Review of Flood Hazard Mapping Practices across Canada](#). Water Resources Research Report no. 107, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 64 pages. ISBN: (print) 978-0-7714-3143-2 ; (online) 978-0-7714-3144-9.
 124. Breach, P.A. and S. P. Simonovic (2020). [ANEMI 3: Tool for investigating impacts of global change](#). Water Resources Research Report no. 108, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 134 pages. ISBN: (print) 978-0-7714-3145-6 ; (online) 978-0-7714-3146-3.
 125. Mohanty, M. and S. P. Simonovic (2020). [A comprehensive framework for regional floodplain mapping](#). Water Resources Research Report no. 109, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, The University of Western Ontario, London, Ontario, Canada, 58 pages. ISBN: (print) 978-0-7714-3147-0; (online) 978-0-7714-3148-7.
 126. Sredojevic, B., M. P. Mohanty and S. P. Simonovic (2020). [Regional analysis of population exposure to flooding in Canada](#). Water Resources Research Report no. 110, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 60 pages. ISBN: (print) 978-0-7714-3151-7; (online) 978-0-7714-3152-4.
 127. Jiang, H. and S. P. Simonovic (2021). [ANEMI Yangtze - A regional integrated assessment model for the Yangtze Economic Belt in China](#). Water Resources Research Report no. 111, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 75 pages. ISBN: (print) 978-0-7714-3155-5; (online) 978-0-7714-3156-2.
 128. Mohanti, M. and S.P. Simonovic (2021). [A generic framework to quantify changes in floodplain regimes by incorporating climate change impacts over large regions](#). Water Resources Research Report no. 112, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 55 pages. ISBN: (print)) 978-0-7714-3157-9; (online) 978-0-7714-3158-6.
 129. Schardong, A., A. Gaur, S.P. Simonovic and D. Sandink (2021). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate - Technical Manual v.5.0](#), Water Resources Research Report no. 113, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 68 pages. ISBN: (print)) 978-0-7714-3159-3; (online) 978-0-7714-3160-9.
 130. Schardong, A., A. Gaur, S.P. Simonovic and D. Sandink (2021). [Computerized Tool for the Development of Intensity-Duration-Frequency Curves Under a Changing Climate – User’s Manual v.5.0](#), Water Resources Research Report no. 114, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 85 pages. ISBN: (print)) 978-0-7714-3161-6; (online) 978-0-7714-3162-3.

131. Schardong, A., A. Gaur, S. P. Simonovic and D. Sandink (2022). [Computerized Tool for the Development of Intensity-Duration-Frequency-Curves Under a Changing Climate: Technical Mannual v.6](#). Water Resources Research Report no. 115, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 70 pages. ISBN:978-0-7714-3169-2.
132. Schardong, A., A. Gaur, S. P. Simonovic and D. Sandink (2022). [Computerized Tool for the Development of Intensity-Duration-Frequency-Curves Under a Changing Climate: User's Mannual v.6](#). Water Resources Research Report no. 116, Facility for Intelligent Decision Support, Department of Civil and Environmental Engineering, London, Ontario, Canada, 79 pages. ISBN:978-0-7714-3171-5.

133. RESEARCH FUNDING

	\$ PER YEAR	\$ TOTAL
1. An expert system for reservoir planning, management, and operations (NSERC operating grant, 1986-1989)	\$25,000	\$75,000
2. Real-time reservoir modelling (University of Manitoba initiation research grant, 1986)	\$2,000	\$2,000
3. Feasibility study of expert system application for management of reservoir system (Manitoba Hydro research contract)	\$7,500	\$7,500
4. Successive linear programming for energy management and maintenance analysis (Manitoba Hydro academic grant, 1987-1991)	\$12,000	\$48,000
5. International symposium on applied system analysis (NSERC conference grant, 1990)	\$8,000	\$8,000
6. International symposium on applied system analysis (Environment Canada conference grant, 1988)	\$7,000	\$7,000
7. International symposium on applied system analysis (Manitoba Hydro conference grant, 1988)	\$14,000	\$14,000
8. International symposium on applied system analysis (Canadian Association of Civil Engineers conference grant, 1988)	\$3,000	\$3,000
9. International symposium on applied system analysis (Hydro Quebec conference grant, 1988)	\$3,000	\$3,000
10. International symposium on applied system analysis (UNESCO conference grant, 1990)	\$16,600	\$16,600
11. Optimal operation of single multipurpose reservoir using forecast (University of Manitoba Academic Development Fund, 1988)	\$2,500	\$2,500
12. Development of the Facility for Intelligent Decision Support (University of Manitoba Academic Development Fund, 1989)	\$3,500	\$3,500
13. Intelligent decision support in water resources management (NSERC operating grant, 1990-1993)	\$30,650	\$91,950
14. Expert system for reservoir management - with Dr.Burn (Manitoba Hydro research contract, 1988-1991)	different	\$182,000
15. Expert system tool for effective flood control management (NSERC scientific exchange grant, 1991)	\$3,600	\$3,600
16. SYSES computer support for teaching civil engineering systems (University of Manitoba endowment fund, 1991)	\$2,000	\$2,000
17. Risk and reliability in management of a multipurpose reservoir system (NSERC international collaboration research grant, 1991)	\$4,800	\$4,800
18. An expert system approach to stage-discharge analysis (Environment Canada research contract, 1991-1995)	different	\$180,681
19. Probabilistic technique for energy security (Manitoba Hydro academic grant, 1991-1994)	different	\$53,100
20. Investigation of floating boom structures Manitoba Hydro research contract, 1992-1993)	different	\$30,687
21. Equitable decision making in assessing environmental impact for planning water reservoir projects (Manitoba Hydro academic grant 1992-1995)	different	\$28,100
22. Decision support for sustainable management of existing reservoirs (NSERC research grant, 1993-1996)	\$27,000	\$108,000
23. Sustainable development and water resources planning: A framework for analysis and implementation - with Dr.Lence and Dr.Burn (University of Manitoba development grant, 1993)	\$4,000	\$4,000
24. Facility for intelligent decision support - with Dr.Lence and		

Dr. Burn (President's NSERC general research grant, 1994)	\$5,589	\$5,589
25. Sustainability measures for project decisions - with Dr. Lence and Dr. Burn (Manitoba Hydro academic grant, 1995-1996)	different	\$59,550
26. Paleoclimatic indicators of drought - with Dr. Burn (Manitoba Hydro academic grant, 1995-1997)	different	\$20,000
27. Short term flow forecasting using neural networks - with Dr. Burn (Manitoba Hydro academic grant, 1995-1997)	different	\$20,500
28. Nonlinear programming algorithm for flow optimization in constrained networks (NSERC collaborative research and development grant, 1996-1998)	\$30,000	\$60,000
29. Nonlinear programming algorithm for flow optimization in constrained networks (Optimal Solutions Ltd., Calgary, 1996 - 1998)	\$10,000	\$20,000
30. Short-term Hydraulic Optimization - (Manitoba Hydro academic grant, 1996-1998)	different	\$31,000
31. Natural Resources Institute-Computational Facility (Manitoba Hydro academic grant, 1996)	\$ 35,000	\$ 35,000
32. Short-term Hydraulic Optimization - (NSERC Industrially oriented research, 1997-1999)	different	\$34,300
33. Optimal Analysis of Flood Damage Reduction Measures (NSERC Research grant, 1997-2001)	different	\$119,070
34. Sustainability of water use from the Assiniboine Delta aquifer (PFRA, academic grant, 1997-1998)	\$ 10,000	\$10,000
35. Assessment of Flood Damage Reduction along the Red River (Environment Canada research grant)	\$ 5,000	\$ 5,000
36. Water Resources Project (Manitoba Department of Natural Resources, Research training contract, 1998)	\$ 4,950	\$ 4,950
37. Impact of wetlands on flooding in the Red River Basin (International Joint Commission research contract, 1998-1999)	different	\$38,090
38. Modeling fish population dynamics (Manitoba Hydro academic Grant, 1998-1999)	different	\$15,700
39. Nonlinear programming algorithm for flow optimization in constrained networks (NSERC collaborative research and development grant, 1998-2000)	\$40,000	\$80,000
40. Nonlinear programming algorithm for flow optimization in constrained networks (Optimal Solutions Ltd., Calgary, 1998 - 2000)	\$15,000	\$30,000
41. Short-term Hydraulic Optimization - (Manitoba Hydro academic grant, 1998-1999)	\$ 9,550	\$9,550
42. Comparative analysis of two- and one-dimensional hydraulic models for flood analyses (International Joint Commission research contract, 1999)	different	\$14,560
43. System dynamics approach to hydropower generation planning - (Manitoba Hydro academic grant, 1999-2000)	different	\$26,900
44. Assessment of the impact of climate variability and change on the reliability, resilience and vulnerability of complex flood protection systems (Natural Resources Canada research contract, 1999-2001)	\$25,000	\$50,000
45. Capacity building for sustainable management of natural resources and wetland restoration in southern Ukraine (Association of Canadian Community Colleges – Partnership for Tomorrow Program, 2000)	\$8,000	\$8,000
46. Flood research partnerships unit: building research capacity through stake holder's participation in sustainable floodplain management in the Red River Basin – with Dr. Rashid and Mr. Whitney (SSHRC – Community University Research Alliances, CURA, Program, 2000)	\$5,000	\$5,000
47. A spatial fuzzy compromise approach for disaster mapping (The		

Institute for Catastrophic Loss Reduction research grant, 2000-2002)	\$15,000	\$30,000
48. Flood research partnership: promoting stakeholders' participation in sustainable floodplain management – with Dr. Sinclair, Dr. Rashid, Dr. Haque, Dr. Heider and Mr. Whitney (SSHRC – Community University Research Alliances, CURA, Program, 2000-2003)	\$200,000	\$600,000
49. System dynamics modeling tool for regional assessment of water resources (NSERC Research Grant, 2001 –2004)	\$33,000	\$132,000
50. Evaluating the performance of weather and environmental prediction Systems- with Dr. McBean (CFCAS Research Grant, 2001-2003)	different	\$119,500
51. A decision support tool for disaster risk management – with Dr. W. Leiss and Dr. D.H. Burn (Institute for Catastrophic Loss Reduction research grant, 2002-2004)	\$50,000	\$100,000
52. Risk management tool for water supply systems – with Dr. D.H. Burn and Dr. B.J. Lence (NSERC CRDPJ grant, 2003-2005)	different	\$94,280
53. Assessment of water resources risk and vulnerability to changing climatic conditions – with Dr. D.H. Burn and Dr. G. McBean (CFCAS Research Grant, 2003-2005)	different	\$314,800
54. Modeling Infrastructure Interdependency for Emergency Management Using a Network-centric Spatial Decision Support System Approach – with Dr. V. Tao, Dr. A. Jenkins and Dr. Z. Chen (NSERC – PSEPC Joint Infrastructure Interdependencies Research Program Grant, 2005–2008)	different	\$586,500
55. Water Resources Decision Making Under Spatially Variable Risk in the Urban Environment (NSERC Discovery Grant, 2005 –2009)	\$33,000	\$165,000
56. Development of rainfall intensity-duration-frequency curves for the City of London under the changing climate (Research Grant – City of London, 2007)	different	\$27,500
57. An Integrated System Dynamics Model for Analyzing Behaviour of the Social-Economic-Climatic System – with Dr. G. McBean, Dr. J. Whalley, and J. MacGee (NSERC Strategic Research Grant, 2008 – 2010)	different	\$246,000
58. An update of rainfall intensity-duration-frequency curves for the City of London under the changing climate (Research Grant – City of London, 2008)	different	\$20,000
59. Assessment of infrastructure vulnerability to climate change – City of London (Research Grant – City of London, 2008 – 2010)	different	\$180,000
60. Quantifying the uncertainty in modelled estimates of future extreme precipitation events – with Dr. D.H. Burn (CFCAS Research Grant, 2008 – 2011)	different	\$195,200
61. Climate security - the implications of the impacts and response strategies of a changing climate for Canadian health, economic and social security – with Dr. G. McBean, Dr. B.Pratina, Dr. C. Trick, E. Dr. Riddell-Dixon, and Dr. D. Cunningham (Synthesis Grant: Knowledge Translation – Canadian Institute of Health Research and Social Sciences and Humanity Research Council, 2009)	\$100,000	\$100,000
62. Systems Dynamics Simulation for Integrated Water Resources Management (NSERC discovery grant, 2010-2015)	different	\$228,600
63. Coastal Cities at Risk (CCaR): Building Adaptive Capacity for Managing Climate Change in Coastal Megacities – with Dr. G. McBean and Dr. A. Snidvongs (IDRC - International Research Initiative on Adaptation to Climate Change, 2011 – 2016)	\$500,000	\$2,500,000
64. Selection of Global Climate Models for use with MRAT Project,		

(Research Grant - Insurance Bureau of Canada, 2011)	\$12,000	\$12,000
65. Development of future IDF curves for MRAT Project, (Research Grant – Insurance Bureau of Canada, 2012)	\$100,000	\$100,000
66. Simple proxies for risk analysis and natural hazard estimation – with Prof. K. Tiampo and G. Kopp (Research Grant, MITACS and Property and Casualty Insurance Compensation Corporation, 2013)	\$90,000	\$90,000
67. Computerized Tool for the Development of Intensity-Duration-Frequency Curves under Climate Change, (Evolving Opportunities for Knowledge Application Grant, the Canadian Water Network, 2013 – 2015)	different	\$126,200
68. Integrated Water Resources Management under Global Climate Change, (Collaborative Research Grant, Western University – China Institute of Water Resources and Hydropower Research, 2014)	\$25,000	\$25,000
69. Systems Engineering Approach to the Reliability of Complex Civil Infrastructure (NSERC Collaborative Research and Development Grant with BC Hydro, 2014 – 2018)	different	\$673,334
70. Advanced Disaster, Emergency and Rapid Response Simulation – with Drs. J.X. Huang, J. Wu, Y. Gao, A. An, A. Ferworn, J.M. Heffernan, A. Asgary, K. Huang, S.H. Ali, and G. Lizarralde (NSERC – CREATE, 2015 – 2019)	different	\$1,650,000
71. Linking hazard, exposures and risk across multiple hazards – with K. Tiampo, S. Molnar, and G. Kopp (NSERC Collaborative Research and Development Grant with ICLR in partnership with Chaucer, 2015 – 2022)	different	\$1,375,600
72. Water Resources Management Capacity Building in the Context of Global Change (NSERC Discovery grant, 2016 – 2022)	\$42,000	\$252,000
73. ANEMI_Yangtze: an integrated assessment model of the Yangtze River Economic Belt (The Belt and Road Special Foundation of the State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, Hohai University, Nanjing, China, 2021 – 2022)	\$29,000	\$29,000
74.		
TOTAL		\$11,464,291

Current Research Support

75. Linking hazard, exposures and risk across multiple hazards – with K. Tiampo, G. Atkinson, and A. Kopp (NSERC Collaborative Research and Development Grant with ICLR, 2015 – 2022)	different	\$1,375,600
76. Water Resources Management Capacity Building in the Context of Global Change (NSERC Discovery grant, 2016 – 2023)	\$42,000	\$252,000
77. ANEMI_Yangtze: an integrated assessment model of the Yangtze River Economic Belt (The Belt and Road Special Foundation of the State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, Hohai University, Nanjing, China, 2021 – 2022)	\$29,000	\$29,000
TOTAL		\$1,656,600

PROFESSIONAL ASSOCIATIONS

Canadian Academy of Engineering (CAE)
Professional Engineers, Ontario, Canada (PEO)
Association of Professional Engineers of the Province of Manitoba, Canada (APEM)
Canadian Society of Civil Engineers (CSCE)
Canadian Geophysical Union (CGU)
Canadian Water Resources Association (CWRA)
American Society of Civil Engineers (ASCE)
American Geophysical Union (AGU)
International Water Resources Association (IWRA)

PROFESSIONAL ACTIVITIES

Editorial duties - current:

Member of Editorial Board, *Water Resources Management Journal*, 1994–2025
Member of Editorial Board, *International Journal of Environment and Climate Change*, 2012-present
Member of Editorial Board, *Water*, 2020 - present
Associate Editor, *Modeling Earth Systems and Environment*, 2014 – present
Associate Editor, *Water*, 2019 - present
Member of Editorial Board, *Advances in Climate Change Research*, 2018 – 2022
Member of Editorial Board, *Water Sector of Russia Journal*, 2020 – present
Associate Editor, *River Journal*, 2022-present

Editorial duties - completed:

Associate Editor, *Journal of Flood Risk Management*, 2010 - 2019
Member of Editorial Board, *Water International*, 2016 - 2018
Associate Editor, *Brazilian Journal of Water Resources*, 2015 - 2018
Member of Editorial Board, *The Open Civil Engineering Journal*, 2007-2017
Member of Editorial Board, *Intelligent Decision Technologies, an International Journal*, 2008 - 2016
Associate Editor, *Hydrological Sciences Journal*, 1993–1999.
Member of Editorial Board, electronic scientific journal *The Journal of Geographic Information and Decision Analysis*, 1996-2004
Science Editor, *Water International*, 1998-2000
Member of Editorial Board, *The Canadian Water Resources Journal*, 2004- 2010

Review of Papers: Water Resources Research

Journal of Water Resources Planning and Management Division, ASCE
 Journal of Computing in Civil Engineering, ASCE
 Journal of Hydraulics, ASCE
 Stochastic Hydrology and Hydraulics
 International Water Resources Management Journal
 Hydrological Sciences Journal
 Canadian Journal of Civil Engineering
 Canadian Water Resources Journal
 Journal of Hydrology
 Water Research Journal, International Association on Water Quality
 European Journal of Operational Research
 Civil Engineering Systems
 IEEE Transactions on Systems, Man and Cybernetics
 Natural Hazards
 International Transactions in Operations Research
 Climatic Change and
 many more

Other professional duties:

Secretary General, Second Yugoslavian Water Congress, 1986.

Organizer, Round Table on New Trends in Water Resources Systems Analysis, Winnipeg, Canada, 1987.

Session Chairman, 16th Annual Water Resources Specialty Conference, ASCE, Sacramento, USA, 1989.

Organizing Committee Member, 4th Canadian Seminar on Systems Theory for the Civil Engineer, Winnipeg, Canada, 1989.

Session Chairman, 4th Canadian Seminar on Systems Theory for the Civil Engineer, Winnipeg, Canada, 1989.

Session Chairman, Computational Modelling and Experimental Methods in Hydraulics, Dubrovnik, Yugoslavia, 1989.

Paper Screening Committee Member, Symposium on the Hydrological Basis for Water Resources Management, IAHS, Beijing, China, 1990.

Organizing Committee Chairman, International Symposium on Water Resource Systems Application, Winnipeg, Canada, 1990.

Session Chairman, Canadian Operational Research Society National Conference, Ottawa, Canada, 1990.

Session Chairman, 18th Annual Water Resources Specialty Conference, ASCE, New Orleans, USA, 1991.

Session Chairman, NATO Advanced Workshop on Computer Aided Support Systems for Water Resources Research and Management, Erice, Portugal, 1990.

Technical Program Committee Member, Canadian Hydrology Symposium: 92, Winnipeg, 1992.

Session Chairman, AIENG'92, Application of Artificial Intelligence in Engineering, University of Waterloo, Waterloo, 1992.

Scientific Advisory Committee Member, Hydro GIS'93, Application of Geographic Information Systems in Hydrology and Water Resources Management, Baden, Austria, 1993.

International Program Committee Member, International Conference on Stochastic and Statistical Methods in Hydrology and Environmental Engineering, Waterloo, Ontario, 1993.

Convener, International Association of Hydrological Sciences Symposium on Extreme Hydrological Events, Yokohama, Japan, 1993.

Session Chairman, International Association of Hydrological Sciences Symposium on Extreme Hydrological Events, Yokohama, Japan, 1993.

Member, *International Scientific Advisory Board*, International Symposium on Water Resources Planning in a Changing World, Germany, 1994

Session Chairman, ASCE 21st Annual Water Resources Specialty Conference, Denver, USA, 1994

Member of the Scientific Committee, Second European Conference on Advances in Water Resources Technology and Management, Lisbon, Portugal, 1994

Convener, International Association of Hydrological Sciences, Symposium on Modelling and Management of Sustainable Basin-scale water resource systems, Boulder, USA, 1995

Session Chairman, International Association of Hydrological Sciences, Symposium on Modelling and Management of Sustainable Basin-scale water resource systems, Boulder, USA, 1995

Member of the Scientific Committee, International Conference in honor of Jacques Bernier; Statistical and Bayesian Methods in Hydrological Sciences, Paris, France, 1995

Session Chairman, Annual Conference of Canadian Water Resources Association, Fredericton, 1995

Session Moderator, North American Water and Environment Congress '96, American Society of Civil Engineers, Anaheim, USA, 1996.

Session Chair, 49th Annual Canadian Water Resources Association Conference, Quebec City, 1996

Member, *International Scientific Committee*, International Conference on Water Resources and Environmental Research: Towards the 21st Century, Kyoto, Japan, 1996

Session Chair, International Conference on Water Resources and Environmental Research: Towards the 21st Century, Kyoto, Japan, 1996

Member of the Scientific Advisory Committee, International Conference of Geographic Information Systems in Hydrology and water Resources Management, Vienna, Austria, 1996

Member of the International Advisory Committee, 1st International Conference on Rivertech '96, New/Emerging Concepts for Rivers, Chicago, Illinois, USA, 1996.

Chairman of the Canadian Delegation, 12th Session of the Intergovernmental Council of International Hydrologic Program, UNESCO, Paris, France, September 1996.

Member of the Organizing Committee, The Ninth World Congress, The International Water Resources Association, Montreal, Canada, 1997.

Panel Coordinator, 24th Annual Conference of the Water resources Planning and Management Division, ASCE, Houston, 1997.

Session Chair, IAHS 5th Scientific Assembly, Symposium on Sustainability of Water Resources Under Increasing Uncertainty, Rabat, Morocco, 1997.

Member of the Organizing Committee, International Research Workshop, The Flood of the Century, Winnipeg, Canada, September 1997.

Chairman of the International Organizing Committee, International Workshop on Barriers to Sustainable Management of Water Quantity and Quality, Wuhan, China, May 1998.

Chairman of the Canadian Delegation, 13th Session of the Intergovernmental Council of International Hydrologic Program, UNESCO, Paris, France, July 1998.

Member of the International Scientific Committee, Second International Conference on Water Resources and Environment Research, Brisbane, Australia, 1999.

Member of the International Technical Committee, International Conference on Civil and Environmental Engineering, Bangkok, Thailand, 1999.

Member of the Organizing Committee, International Conference on Participatory Processes in Water Management, Budapest, Hungary, 1999.

Chairperson, Special Session on IWRA'21: A Shared Vision for Management of Water Resources, X World Water Congress, Melbourne, Australia, 2000.

Chairman of the Canadian Delegation, 14th Session of the Intergovernmental Council of International Hydrologic Program, UNESCO, Paris, France, July 2000.

Session Moderator, Management of Floods in the Red River Basin, 2000 Joint Conference on Water Resources Engineering and Water Resources Planning & Management, ASCE, Minneapolis, July 2000.

Member of the organizing committee, 'Dealing with Disasters', A Workshop on Extreme Events and the Assessment of Risk, Institute for Catastrophic Loss Reduction, University of Western Ontario, London, November 2000.

Workshop Convener, 'The role of information technology in sustainable water resources management: case studies from developed and developing regions', IAHS, Maastricht, The Netherlands, July 2001.

Workshop Chairperson, 'Non-structural Measures for Water Management Problems', International Workshop, UNESCO, The University of Western Ontario, ICLR, London, Ontario, October 2001.

Session Chairperson, Risk in Civil Engineering, 30th Annual conference of CSCE, Montreal, June 2002.

Session Chairperson, Strategies for water resources management in emergency and conflicting situations, UNESCO-IAHS Sixth Kovacs Colloquium: The Fifth Phase of the International Hydrologic Programme (1996-2001): The balance sheet from a scientific prospective, Paris, France, June 2002.

Chairman of the Canadian Delegation, 15th Session of the Intergovernmental Council of International Hydrologic Program, UNESCO, Paris, France, June 2002.

Member of the International Advisory Scientific Board, 5th International Conference on Hydrosience and Engineering, International Association of Hydraulic Research, Warsaw, Poland, September 2002.

Member of the International Scientific Committee, 5th International Conference, 'Water Resources Management in the Era of Transition', Athens, Greece, September 2002.

Member of the International Scientific Committee, Annual Conference of the International Society for Environmental Information Sciences, Regina, July 2003 postponed August 2004.

Member of the International Steering Committee, The international conference on GIS and remote sensing in hydrology, water resources and environment, Three Gorges, China, September 2003.

Member of the International Committee, International Symposium on Extreme Hydrological Events, Hyderabad, India, September 2003.

Member of the Group of Advisors, Second International Conference on Early Warning: Integrating early warning of natural disasters into public policy, Bonn, Germany, October 2003.

Session Chairperson, Second International Conference on Early Warning: Integrating early warning of natural disasters into public policy, Bonn, Germany, October 2003.

Member of the Technical Advisory Committee, The international conference on advanced modeling techniques for sustainable management of water resources, Warangal, India, January 2004.

Member of the International Programme Committee, Modeling and Control for Planning and Managing Water Resources Systems, Venice, Italy, October 2004.

Workshop Chairperson, International Workshop - Water and Disasters, London, Canada, December 2004.

Member of the International Scientific Committee, Third International Symposium on Flood Defense 'Floods, from defense to management', Nijmegen, The Netherlands, May 2005.

Session Chairperson, 17th Hydrotechnical Conference, CSCE, Edmonton, August 2005.

Member of the International Scientific Committee and Session Chairperson, Computing and Control for the Water Industry, Exeter, UK, September 2005.

Session Moderator, 2nd Annual Canadian Risk and Hazards Network Symposium – Reducing Risk Through Partnerships, Toronto, November 2005.

Member of the Scientific Committee, First Specialty Conference on Disaster Mitigation (SCDM-1), the Canadian Society for Civil Engineering (CSCE), Calgary, Alberta, May 2006.

Session Organizer and Chairperson, Working from the Source Towards Sustainable Water Management - 59th Annual Conference of the Canadian Water Resources Association (CWRA), Toronto, June 2006.

Member of the International Scientific Committee, 3rd Symposium on Integrated Water Resources Management, IAHS, Bochum, Germany, September 2006.

Member of the Roundtable, Source Water protection, Assessment Report Technical Guidance Modules, Ministry of Environment, Ontario, Toronto, May 2006.

Session Chairperson, 18th Hydrotechnical Conference, CSCE, Winnipeg, August 2007.

Member of the CEAB accreditation team, Carleton University, Ottawa, November 2007.

Conference Chairperson, Forth International Symposium on Flood Defense, Toronto, May 2008.

Member of the Task Group on Disaster Risk Management, World Federation of Engineering Organizations, April 2008.

Chairperson Technical Program Committee, 19th Hydrotechnical Conference, CSCE, Vancouver, August 2009.

Member of the Advisory Committee, An International Perspective on Current & Future State of Water Resources & the Environment, Chennai, India, January 2010.

Member of the Scientific Advisory Committee, HydroPredict2010 - 2nd International Interdisciplinary Conference on Predictions for Hydrology, Ecology, and Water Resources Management: Changes and Hazards Caused by Direct Human Interventions and Climate Change Prague, Czech Republic, 20 to 23 September 2010

Member of the Advisory Committee, 4th Conference on International Perspectives on Sustainable Environmental and Water Resources Management, Singapore, 4 to 6 January 2011.

Member of the International Scientific Committee, International Conference CCWI2011, Computing and Control for the Water Industry, Urban Water Management: Challenges and Opportunities, University of Exeter, England, 5 to 7 September 2011.

Member of the International Scientific Committee, International Conference on Sustainable Watershed Management, Istanbul, 17 to 21 October 2011.

Session Chairperson, 20th Hydrotechnical Conference, CSCE, Ottawa, 15 – 17 June 2011.

Session Chairperson, 5th International Conference on Flood Management: From Risk to Opportunity, Tokyo, Japan, 27-29 September, 2011.

Member of the Scientific Committee, FLOODrisk2012, The 2nd European Conference on Flood risk Management, Science, Policy and Practice: Closing the Gap, Rotterdam, The Netherlands, 20-22 November 2012.

Member of the Scientific Committee, ICFR, International Conference on Flood Resilience: Experiences in Asia and Europe, Exeter, UK, 5 -7 September 2013.

Member of the Scientific Committee, 4th Conference of the International Society for Integrated Disaster Risk Management, IDRIIM 2013, Northumbria University, Newcastle upon Tyne, UK, 4 – 6 September 2013.

Member of the Organizing Committee, 2nd International Conference on Hydrology & Groundwater Expo, Raleigh NC, USA, Aug 26-27, 2013.

Co-Chair, International Conference: Climate Change Impacts on Water Resources, Belgrade, Serbia, Oct 17-18, 2013.

Co-Chair, 5th Conference of the International Society for Integrated Disaster Risk Management, IDRIIM 2014, Western University, London, Ontario, Canada, 30 October – 1 November, 2014.

Member of the Scientific Committee, 6th International Conference on Flood Management: Floods in a Changing Environment, Sao Paulo, Brazil, 16 – 18, September, 2014.

Member of the Scientific Committee, 22th Hydrotechnical Conference, CSCE, Montreal, 2015.

Member of the International Scientific Advisory Committee, Risk Analysis 2016, 10th International Conference on Risk Analysis, Crete, Greece, 25 – 27 May, 2016.

Member of the Scientific Committee, 3rd European Conference on Flood Risk Management, Lyon, France, September, 2016.

Member of the International Scientific Committee, 10th World Congress of EWRA on Water Resources and Environment “Panta Rhei”, Athens, Greece, 5 – 7 July, 2017.

Session Chairperson, 10th World Congress of EWRA on Water Resources and Environment “Panta Rhei”, Athens, Greece, 5 – 7 July, 2017.

Member of the Scientific Committee, 7th International Conference on Flood Management: Resilience to Global Change – Anticipating the Unexpected, Leeds, UK, 5 – 7, September, 2017.

Session Convener, European Geophysical Union General Assembly 2018, session NH9.11/GMPV6.11/HS11.43/SM3.19/SSS13.63, Vienna, Austria, 8 – 13, April, 2018.

Member of the International Scientific Advisory Committee, VIII International Scientific Conference “Archibald Reiss Days”, Belgrade, Serbia, October 2-3, 2018.

Member of the International Scientific Advisory Committee and Session Convener, Risk Analysis 2018, 11th International Conference on Risk Analysis, Seville, Spain, 6 - 8 June 2018.

Member of the International Evaluation Team, International Evaluation of the Discipline of Civil and Hydraulic Engineering, Dalian University of Technology, Dalian, China, April 30 – May 1, 2018.

Organizing Committee Member, 3rd International Conference on Earth Science and Climate Change- “Improve understanding of the Earth Sciences and Abrupt Climate Change”, Toronto, April 15 – 16, 2019.

Member of the International Scientific Advisory Committee, International Conference: “The Life and Work of Milutin Milankovic - Past, Present, Future”, University of Belgrade and Milutin Milankovic Association, Belgrade, Serbia, July 19-21, 2019.

Member of the International Scientific Committee, The 8th International Conference on Water Resources and Environment Research, Hohai University, Nanjing, China, June 14-18, 2019.

Member of the Scientific Committee, 8th International Conference on Flood Management: Lowering the Risk by Increasing Resilience, Iowa City, USA, August 10, 2021.

Advisory member, The International Conference on “Climate and weather-related extremes - New dimensions, Challenges, and Solutions”, Roorkee, India, September 19-20, 2022.

Member of the Scientific Committee, International Scientific Conference “Contemporary Water Management: Challenges and Research Directions”, Jaroslav Cerni Water Institute, Belgrade, Serbia, October 17-20, 2022.

Member of the Conference Committee, 7th International Electronic Conference on Water Sciences (ECWS-7): Adaptive water resources management in an era of changing climatic, environmental and social conditions. Online. January 2023.

Member of the Scientific Committee, 9th International Conference on Flood Management: River Basin Disaster Resilience and Sustainability by All - Integrated Flood Management in the Post COVID-19 Era, Tsukuba, Japan, February 18-22, 2023.

CONSULTING

2020 – 2021	National Research Council, Ottawa, Canada
2020	PEI Dept of Environment, Water & Climate Change, Charlottetown, Canada
2019 – 2020	Ecojustice Environmental Law Clinic, Ottawa, Canada
2019	Nova Scotia Municipal Affairs, Halifax, Canada
2017 – 2018	Food and Agriculture Organization of the United Nations, FAO, Amman, Jordan
2017	US Environmental Protection Agency, Systems Exposure Division, Las Vegas, USA
2016 – 2017	National Research Council, Ottawa, Canada
2016	Ontario Power Generation, Toronto, Canada
2015 – 2019	APEGBC, Vancouver, Canada
2015	Academia Sinica, Taipei, Taiwan
2014 - now	Welland River Flood Plains Association, Hamilton, Canada
2014	AECOM, London, Canada
2013 – 2014	Delcan Corporation, Canada
2012 – 2014	City of London, London, Canada
2010 – 2014	Insurance Bureau of Canada, Toronto, Canada
2012 – now	Welland River Floodplain Association, Canada
2009 – 2012	UNESCO International Hydrologic Programme, Paris, France
2008 – 2011	Upper Thames River Conservation Authority, London, Canada
2007 – 2008	Canadian Council of Professional Engineers, Ottawa, Canada
2007 – 2008	UNESCO International Hydrologic Programme, Paris, France
2004 – 2006	Research Institute for Humanity and Nature, Kyoto, Japan
2003 – 2004	World Meteorological Organization, Associate Programme on Flood Management, Geneva, Switzerland
2003	European Commission, Research Directorate-General, Brussels, Belgium
2001 – 2004	UNESCO International Hydrologic Programme, Paris, France
2000 - 2001	Emergency Preparedness Canada, Ottawa
1999	Lyonnaise des Eaux, ASTRAN, Kuala Lumpur, Malaysia
1999 – 2000	Science Applications International Corporation, Virginia, USA
1998 – now	Golder Associates, Calgary
1997 – 2000	International Joint Commission, Ottawa
1994 - 1996	CIDA and S-N-C Lavalin Eng., Montreal
1994 - 1997	CIDA and Agra Earth & Environment, Ltd., Calgary
1992	Manitoba Hydro, Department for Planning Energy Generation, Winnipeg.
1992 - 1994	INGEMA, Rabat, Morocco
1991 - 1995	ENEL-CRIS, Mestre, Italy
1991	International Development Research Center, Ottawa
1991 - 2000	KGS group, Consulting Engineers, Winnipeg.
1991 - 1994	TEMPUS program of the European Communities, Wageningen, The Netherlands.
1990	ISMES consulting, Milan, Italy
1989 - 1990	COMETT program of the European Communities, Belgium.
1989	UNESCO, International Research and Training Center for Urban Drainage, Belgrade, Yugoslavia.
1985	Yugoslav Chamber of Commerce, Malaysia, India

ADMINISTRATIVE SERVICE

ACTIVITY	DATES
Head of the Department for Hydrological and Systems Analyses, Institute for the Development of Water Resources, Yugoslavia	1983 – 1984
Deputy Director , Department for Water Resources Systems, Institute for the Development of Water Resources, Yugoslavia	1984 – 1985
Member, Civil Engineering Graduate Studies Committee	1987 – 1989
	1994 – 1996
Chairman , Civil Engineering Graduate Studies Committee	1992 – 1993
Member, Executive Committee, Dept. of Civil Eng.	1990 – 1995
Member, Computer Committee, Dept. of Civil Eng.	1990 – 1993
Member, Academic Regulations and Curriculum Committee, Faculty of Engineering	1991 – 1992
Member, Facilities Committee, Faculty of Eng.	1990 – 1991
Chairman , Computer Use Committee, Faculty of Eng.	1991 – 1992
Member, Senate, University of Manitoba	1990 – 1993
Member, Senate Committee on the University Calendar, University of Manitoba	1992 – 1993
Member, President's Advisory committee on Sustainable Development, University of Manitoba	1991 – 2000
Member, Faculty Council of Graduate Studies, University of Manitoba	1993 – 1995
Chairman , Committee for Academic Review of the Graduate Studies and Research, Department of Civil and Geological Engineering, University of Manitoba	1993 – 1994
Member, President's Advisory Committee on the Selection of the Dean of Engineering	1994 – 1995
Chairman , Student Evaluation of Professors and Courses Committee, Faculty of Engineering	1994 – 1996
Member, Standing and Appeals Committee, Faculty of Engineering	1993 – 1994
Member, Civil Engineering Curriculum Committee, Department of Civil and Geological Engineering	1994 – 1996
Member, Promotion Committee, Faculty of Engineering	1994 – 2000
Director , Natural Resources Institute, The University of Manitoba	1996 – 2000
Member, Deans' and Directors' Council, The University of Manitoba	1996 – 2000
Member, Board of Graduate Studies, The University of Manitoba	1996 – 2000
Member, Selection Committee-Chair, Civil and Environmental Engineering The University of Western Ontario	2001
Member, Appointments Committee, Civil and Environmental Engineering The University of Western Ontario	2001 – 2004

Member, Promotions and Tenure Committee, Civil and Environmental Engineering, The University of Western Ontario	2001 – 2004
Member, Research Advisory Committee, Institute for Catastrophic Loss Reduction, University of Western Ontario	2002 – now
Member, Selection Committee-Chair, Civil and Environmental Engineering The University of Western Ontario	2006
Member, Appointments Committee, Civil and Environmental Engineering The University of Western Ontario	2006 – 2007
Member, Curriculum Committee, Civil and Environmental Engineering The University of Western Ontario	2006 – 2009
Member, Promotions and Tenure Committee, Civil and Environmental Engineering, The University of Western Ontario	2008 – now
Member, Long Range Planning Committee, Civil and Environmental Engineering, The University of Western Ontario	2008 – 2016
Member, Department Chair Selection Committee, Civil and Environmental Engineering, The University of Western Ontario	2011 – 2013
Member, Nomination Committee, Civil and Environmental Engineering, The University of Western Ontario	2012 – 2013
Member, Appointments Committee, Civil and Environmental Engineering, The University of Western Ontario	2012 – 2016
Member, Outreach Committee, Civil and Environmental Engineering, The University of Western Ontario	2014 – 2017
Advisor, Western Water Chapter	2017 – 2019
Member, Computing Committee	2018 – 2019

Revised May 19, 2022

