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Endowed Brace Chair Professor of Civil Engineering
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**UNIVERSITY EDUCATION**

- **Doctor of Applied Sciences** (Civil Engineering-Hydrology)
Ecole Polytechnique, University of Montreal, Montreal, Quebec, Canada, 1979.
- **Master of Civil Engineering** (Water Resources Engineering)
Asian Institute of Technology, Thailand, 1975.
- **Bachelor of Mechanical Engineering**
National Institute of Technology, Saigon, Vietnam, 1973.

SUMMARY OF ACADEMIC, RESEARCH, AND INDUSTRIAL EXPERIENCE**McGill University, Montreal, Quebec, Canada**

- **Chair** of Department of Civil Engineering and Applied Mechanics (Aug. 2009 to date).
- **Acting Chair** of Department of Civil Engineering and Applied Mechanics (Sep. 2006-Aug. 2007; Jan. 2009 – Jul. 2009).
- **Director** (Jan. 2007 to date), Brace Centre for Water Resources Management.
- **Associate Director** (Jan. 2000 - Dec. 2006), Brace Centre for Water Resources Management.
- **Acting Director** (Jan. 2007 - May 2008), Global Environmental and Climate Change Centre.
- **Associate Director** (Apr. 2004 - Dec. 2006; June 2008 – Aug. 2010), Global Environmental and Climate Change Centre.
- **Full Professor** (Holder of the **Endowed Brace Professor Chair in Civil Engineering**, Oct. 1998 to date), Department of Civil Engineering and Applied Mechanics.
- **Coordinator** (Sep. 1994 - Aug. 2002), Master's Program in Environmental Engineering, Faculty of Engineering
- **Director** (Sep. 1994 - Aug. 1996), Waste Management-Groundwater Contamination Graduate Diploma Program, Department of Civil Engineering and Applied Mechanics.

Curtin University, Australia

- **Invited University Associate** (Aug. 2012 to date)

Thammasat University, Thailand

- **Invited External Research Supervisor** (Sep. 2006 to date)

Kyoto University, Japan

- **Invited Visiting Professor** (Jan. 2002 - Mar. 2002; May 2009 - July 2009)

Nihon University, Japan

- **Invited Visiting Professor** (Sep. 2001 - Dec. 2001)

Institut de Recherche d'Hydro-Quebec, Canada

- **Invited Research Fellow** (Apr. 2002 - July 2002)

Institut national de la recherche scientifique (University of Quebec), Canada

- **Invited Visiting Professor** (June 1992 - June 2003).

Universiti Teknologi Malaysia, Malaysia

- **Invited Visiting Professor** (Jan. 1993 – Dec. 2010)

National University of Singapore, Singapore

- **Invited Research Fellow** (July 2008 – July 2009)
- **Invited Visiting Professor** (Apr. 1993 – May 1993, 13-25 July 1998, 7-21 August 1999, July 8 – Aug. 19, 2000)

Hydro-Quebec Company, Montreal, Quebec, Canada

- **Invited Research Fellow** (Sep. 1992 - Dec. 1992)

Ecole Polytechnique (University of Montreal), Department of Civil Engineering, Canada

- **Invited Visiting Professor (*Chair of University of Montreal*)** (Sep. 1984 – May 1985).
- **Postdoctoral Research Associate and Lecturer** (Apr. 1979 - Aug. 1980).

PROFESSIONAL AFFILIATIONS

- Order of Engineers of Quebec (**OIQ**)
- Canadian Society of Civil Engineering (**CSCE**)
- American Society of Civil Engineers (**ASCE**)
- American Geophysical Union (**AGU**)
- American Water Resources Association (**AWRA**)
- Asia Pacific Association of Hydrology and Water Resource (**APHW**)
- Asia Oceania Geosciences Society (**AOGS**)
- International Association for Hydro-environment Engineering and Research (**IAHR**)
- International Association of Hydrological Sciences (**IAHS**)
- International Water Association (**IWA**)

EVIDENCE OF INTERNATIONAL LEADERSHIP AND COLLABORATIONS

- **Asia Pacific Association of Hydrology and Water Resource (APHW)** (2002 to date): Member of the Preparatory Committee to establish the APHW in 2002.
- **WORLD METEOROLOGICAL ORGANIZATION:** Member of an international expert committee to revise one of the most important guidelines in hydrological practices, the “Guide to Hydrological Practices” published by WMO in 2008. Expert consultant for WMO to give lectures at the WMO Workshops.

- **UNESCO:** Member of the **Regional Steering Committee for Asia-Pacific Region** (2001 to date) that consists of national representatives from countries in the Asia-Pacific region (Australia, Cambodia, China, Indonesia, Japan, Korea, Laos, Malaysia, New-Zealand, Philippines, Thailand, and Vietnam). My main task is to provide advice on planning of collaborative research activities between these countries.
- **Universitas 21:** Member of the **Steering Committee of the Water Futures for Sustainable Cities Group** that consists of representatives from University of Birmingham (UK), The University of Hong Kong, McGill University (Canada), University of Melbourne (Australia), National University of Singapore, and University of Virginia (USA).
- **Asia Oceania Geosciences Society (AOGS):** President of the Hydrological Science Section (2006 – 2008), Vice-President of the Section (2005-2006, 2008 – 2009), member of Award Committee (2012), and member of Nomination Committee (2012).
- **International Association of Hydraulic Engineering and Research (IAHR):** Member of International Working Group on Climate Change (2013 to date), activities include conference organization, policy paper preparation, etc.
- **American Society of Civil Engineers (ASCE):** Member of Hydro-climate/Climate Change Committee (2010 to date), activities include Hydro-Climate Symposium organization, state-of-the art report preparation, etc.
- **International Water Association (IWA):** one of the founding members of the International Working Group on Urban Rainfall (1990 to date), activities include conference organization, journal special issue preparation, etc.
- **Canadian Society for Civil Engineering (CSCE):** member of Hydro-technical Division Council and International Affairs Committee (2012 to date), activities include conference organization, international research and training collaborations, etc.
- **Research Group Leaderships:** Leader of multidisciplinary international research projects in the areas of Climate and Water Resources Management involving researchers from several universities and research institutions in Canada (McGill, Laval University, University of Montreal, University of Quebec, University of Sherbrooke, University of British Columbia, Environment Canada, OURANOS Consortium, and Hydro-Quebec) and international partners in Europe (the ENSEMBLES research group) and in North-America (the NARCCAP research group).
- Member of the **Scientific Program Committees** for organizing various international conferences in China, Korea, France, Germany, Japan, Malaysia, Thailand, Singapore, Switzerland, UK, USA, Vietnam, etc.
- **International Expert Consulting:** Some examples include: (1) Member of an International Review Panel (Bangladesh, Canada, Egypt, Malaysia, France, USA, and Switzerland) invited by Kyoto University to review the achievements of a major training and research unit at this university; and (2) Member of an International Expert Committee (Canada, France, Greece, Portugal, and UK) invited by the Ho Chi Minh City's Steering Center of Flood Control Program in Vietnam to review the progress of a major consultant project on Flood and Inundation Management for HCM City carried out by a Dutch Consulting Consortium.

EDITORSHIPS

- Guest Editorial Board, *Journal of Atmospheric Research*, Special Issue on Urban Rainfall (2011).
- Associate Editor, *Hydrological Research Letters*, Japan Society of Hydrology and Water Resources (2009-Present)
- Associate Editor, *Journal of Hydro-environment Research*, International Association for Hydro-environment Engineering and Research (2006-Present)
- Associate Editor, *Journal of Hydrologic Engineering*, American Society of Civil Engineers (2002-2008).
- Editorial Board, *Journal of Hydroinformatics*, International Water Association and International Association for Hydro-environment Engineering and Research (2006-2010).
- Guest Editorial Board, *Journal of Water Science and Technology*, Special Issue on Urban Rainfall (Vol. 45, No. 2, 2002).
- Guest Editorial Board, *Journal of Water Science and Technology*, Special Issue on Urban Rainfall (Vol. 37, No. 11, 1998).
- Editorial Board, *Journal of Hydrologic Environment*, International Hydrologic Environment Society (2005-Present).
- Editorial Board, *Malaysian Journal of Civil Engineering* (2006-Present).

PRESTIGIOUS INVITED LECTURES

- **Invited Lead Speaker:** *Linking Global Climate Change to Impact and Adaptation Studies at Regional and Local Scales: Advances and Challenges in Developing Decision-Support Tools*, Invited presentation in the Climate Change Adaptation and Mitigation Session at the Science and Technology in Society Forum, October 2-4, 2016, Kyoto, Japan (This prestigious forum is under the leadership of the Prime Minister of Japan. Participation in this forum is by invitation only. More than 1000 senior researchers and leaders in science, technology, policy, business, and higher education from about 100 countries were invited to this forum).
- **Keynote Speaker:** *Linking Climate Change to Impact and Adaptation Studies in Civil Engineering: Recent Advances in Modelling of Precipitation and Extreme Temperature Processes*, Keynote lecture delivered at the 2nd International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2016), May 5 – 6, 2016, Ottawa, Ontario, Canada.
- **Axford Distinguished Speaker:** *Linking Climate Change to Hydrological Impact and Adaptation Studies: Recent Advances in Modeling of Hydrologic Processes over a Wide Range of Space and Time Scales*, Prestigious Axford Lecture delivered at the 12th Annual Meeting of the Asia Oceania Geosciences Society, August 2-7, 2015, Singapore (more than 1500 participants from 52 countries have attended this meeting).
- **Invited Lead Speaker:** *Urban Water Management in the Context of Climate and Environmental Changes*, Invited presentation in the Water Session at the Science and Technology in Society Forum, October 4-6, 2015, Kyoto, Japan (This prestigious forum is under the leadership of the Prime Minister of Japan. Participation in this forum is by invitation only. More than 1000 senior researchers and leaders in science, technology,

policy, business, and higher education from about 100 countries were invited to this forum).

- **Keynote Speaker**, invited by the Chinese Hydraulic Engineering Society (CHES) to deliver the Keynote Lecture on "*Linking Climate Change to Hydrological Impact and Adaptation Studies: Recent Advances in Modeling of Extreme Hydrologic Processes*" at the 2015 Annual Assembly of the CHES, October 25-28, 2015, Nanjing, China.
- **Keynote Speaker**: *Statistical Modeling of Extreme Rainfall Processes: A Decision-Support Tool for Rainfall Frequency Analyses*, Keynote lecture delivered at the International Conference on Sustainable Utilization and Protection of Water Resources under Changing Environment, October 24-25, 2015, Guangzhou, China.
- **Invited Guest Lecture**: *Development of New Methods for Updating IDF Curves in Canada*, Invited presentation at the Workshop on Projection of Extreme Precipitation to Support Infrastructure Design organized by Environment Canada, November 11, 2015, Toronto.
- **Keynote Speaker**: *Linking Climate Change to Hydrological Impact and Adaptation Studies: Recent Developments in Downscaling Methods*, Keynote lecture delivered at the 19th Congress of the Asia and Pacific Division of the International Association of Hydro-environment Engineering and Research (APD-IAHR), September 21-24, 2014, Hanoi, Vietnam.
- **Keynote Speaker**: *Statistical Downscaling of Rainfall Processes for Gaged and Ungaged Sites in the Context of Climate Change*, Keynote lecture delivered at the SimHydro 2014 International Conference on Modelling of Rapid Transitory Flows, June 11-13, 2014, Nice, France.
- **Invited Guest Lecture**: *Recent Advances in Statistical Modeling of Precipitation Processes for Climate Change Impact and Adaptation Studies*, International Symposium on Sustainability/Survivability Science for a Resilient Society Adaptable to Extreme Weather Conditions, December 1-4, 2013, Uji-Kyoto, Japan.
- **Keynote Lecture**: *Recent Advances in Modeling of Precipitation and Extreme Temperature Processes*, 2013 APEC Typhoon International Symposium on Typhoon Behaviour in a Warming Globe, October 21-23, 2013, Taipei, Taiwan.
- **Invited Guest Lecture**: *Linking Climate Change to Hydrological Impact Studies: Recent Advances in Modeling of Extreme Rainfall Process*, Workshop on Urban Drainage and Water Management", RÉSEAU Environnement, September 26, 2013, Montreal, Quebec, Canada.
- **Invited Guest Lecture**: *Linking Climate Change to Hydrological Impact Studies: Recent Advances in Modeling of Extreme Rainfall Process*, First Sino-French Forum for Water Science, September 15-17, 2013, Shanghai, China.
- **Keynote Lecture**: *Linking Climate Change to Hydrological Impact Studies: Recent Advances in Modeling of Precipitation and Extreme Temperature Processes*, Second International Conference on Water Resources Engineering, September 5-6, 2013, Chiang Rai, Thailand.
- **Invited Guest Lecture**: *Modeling Extreme Rainfall Processes in the Context of Climate Change*, Gerald and Lillian Orlob International Symposium on Theoretical Hydrology, August 5-6, 2013, University of California-Davis, USA.
- **Invited Guest Lecture**: *Recent Advances in Statistical Modeling of Rainfall Processes for*

Climate Change Impact and Adaptation Studies, Editor's Forum for Journal of Hydro-environment Research and Launching Symposium of Graduate School of Water Resources, Sungkyunkwan University, July 22-23, 2013, Seoul, Korea.

- **Keynote Lecture:** *Recent Advances in Statistical Modeling of Precipitation Processes for Climate Change Impact Studies*, International Congress on Advances in Citizen, Cyberspace & Environment Safety and Security, June 5-7, 2013, Singapore.
- **Invited Guest Lecture:** *Advances in Statistical Modeling of Extreme Rainfall Processes in the Context of Climate Change*, International Symposium on Typhoon Prediction and Hazard Mitigation, June 5-6, 2012, Taipei, Taiwan.
- **Invited Guest Lecture:** *Climate Change Research and Engineering Education*, International Symposium on Sustainability and Survivability Science for a Resilient Society Adaptable to Extreme Weather Conditions, August 3-4, 2012, Kyoto, Japan.
- **Invited Guest Lecture:** *On Regional Estimation of Extreme Rainfalls for Partially-Gaged or Ungaged Sites*, 18th Congress of the Asia and Pacific Division of International Association for Hydro-Environment Engineering and Research, August 19-23, 2012, Jeju, Korea.
- **Invited Guest Lecture:** *Statistical Downscaling of Multisite Multivariate Daily Extreme Temperature Series for Climate-Related Impact Assessment Studies*, 6th International Conference on Asian and Pacific Coasts, December 14-16, 2011, Hong Kong, China.
- **Keynote Lecture:** *Recent Advances in the Statistical Modeling of Extreme Rainfalls and Floods for Urban Drainage Design in the Context of Climate Change*, Third International Conference on Managing Rivers in the 21st Century, December 6-9, 2011, Penang, Malaysia.
- **Keynote Lecture:** *Statistical Modeling of Short-Time-Increment Extreme Rainfall Processes in the Context of Climate Change*, Conference on Probabilistic Methodologies in Water and Wastewater Engineering, September 23-24, 2011, Toronto, Ontario, Canada.
- **Invited Guest Lecture:** *Statistical Modeling of Extreme Rainfall Processes in the Context of Climate Change*, Annual Conference of the Korea Water Resources Association, May 18-20, 2011, Daegu, South-Korea.
- **Keynote Lecture:** *Statistical Modeling of Extreme Rainfall Processes in the Context of Climate Change*, the Royal Golden Jubilee Ph.D.Congress XII, April 1-3, 2011, Pattaya, Thailand.
- **Invited Lead Lecture:** *Statistical Downscaling of Sub-daily Extreme Rainfall Processes for Urban Water Management in the Context of Climate Change*, International Workshop on Mathematical Science of Understanding and Predicting Regional Climate, March 7-11, 2011, Singapore.
- **Keynote Lecture,** *Construction of Point-to-Area Rainfall Relations in the Context of Climate Change*, International Conference on Hydrology Regime and Water Resources Management in the Context of Climate Change, November 8-12, 2010, Hanoi, Vietnam.
- **Invited Guest Lecture:** *On Statistical Modeling of Extreme Rainfall Processes in the Context of Climate Change*, Fifth International Conference on Water Resources and Environment Research, July 5-7, 2010, Quebec City, Canada.
- **Invited Guest Lecture:** *Some Advances in Downscaling Methods for Climate-Related Impact and Adaptation Studies*, Workshop of the Japan Hydraulic Engineering Association

- Tohoku Region, March 7, 2010, Koriyama, Japan.
- **Keynote Lecture:** *Modeling of Extreme Rainfall Processes in Urban Areas in the Context of Climate Change*, International Workshop on the Impacts of Climate Change on Urban Flooding, June 24-25, 2009, Ho-Chi-Minh City, Vietnam.
- **Keynote Lecture:** *Estimation of an Optimal Rainfall Temporal Pattern for Urban Drainage Design in Consideration of Climate Change*, Keynote Lecture delivered at the International Conference on Environmental Management and Technology, December 10-12, 2008, Kuala Lumpur, Malaysia.
- **Keynote Lecture:** *Estimation of Urban Design Storms in the Context of Climate Change*, 24th Eastern Canadian Symposium of the Canadian Association for Water Quality, November 7, 2008, Montreal, Quebec, Canada.
- **Keynote Lecture:** *Recent advances in downscaling methods for climate change adaptation planning in water resources management*, Integrated Workshop on Coping with Climate Change in the Typhoon Committee Area, United Nations Economic and Social Commission for Asia and the Pacific, September 22-26, 2008, Beijing, China.
- **Keynote Lecture:** *Estimation of Urban Design Storms in Consideration of GCM-Based Climate Change Scenarios*, International Conference on Water and Urban Development Paradigms: Towards an integration of engineering, design and management approaches, September 15-19, 2008, Leuven, Belgium.
- **Keynote Lecture:** *Élaboration de la pluie de conception en considérant les changements climatiques (Estimation of design storms in consideration of climate changes)*, Workshop on "Changements climatiques – Impact sur les réseaux municipaux de drainage", RÉSEAU Environnement, June 12, 2008, Montreal, Quebec, Canada.
- **Keynote Lecture:** *Advances in Downscaling Methods for Climate-related Impact Assessment Studies*, International Seminar on Climate Variability, Change and Extreme Weather Events, February 26-27, 2008, Bangi, Selangor, Malaysia.
- **Invited Lead Lecture:** *Downscaling methods for climate-related impact assessment studies*, International Workshop on Data-driven and Physically-based Models for Characterization of Processes in Hydrology, Hydraulics, Oceanography and Climate Change, January 6-28, 2008, Institute for Mathematical Sciences, National University of Singapore, Singapore.
- **Invited Lead Lecture:** A spatial-temporal downscaling approach to construction of intensity duration frequency relations in consideration of GCM-based climate change scenarios, International Workshop on Data-driven and Physically-based Models for Characterization of Processes in Hydrology, Hydraulics, Oceanography and Climate Change, January 6-28, 2008, Institute for Mathematical Sciences, National University of Singapore, Singapore.
- **Keynote Lecture:** *Assessment of Climate Change Impacts on Hydrology and Water Resources*, Second International Symposium on Water Resources and Renewable Energy Development in Asia, March 10-11, 2008, Danang, Vietnam.
- **Keynote Lecture:** *A Spatial-Temporal Approach to Construction of Intensity Duration Frequency Relations in Consideration of GCM-Based Climate Change Scenarios*, Expert Symposium on Climate Change: Modelling, Impacts and Adaptations, December 17-19,

2007, Singapore.

- **Keynote Lecture:** *Downscaling Methods for Climate-Related Impact Assessment Studies*, Expert Symposium on Climate Change: Modelling, Impacts and Adaptations, December 17-19, 2007, Singapore.
- **Keynote Lecture:** Recent Advances in Modeling of Rainfall Process for Climate-Related Impact Assessment Studies, Invited Keynote Lecture delivered at the Second National Conference on Water Resources Engineering, August 30 - 31, 2007, Kasetsart University, Bangkok, Thailand.
- **Distinguished Lecture:** *Impacts of Climate Variability and Change on Hydrology and Water Resources*, 3rd Meeting of the Asia Oceania Geosciences Society, July 10-14, 2006, Singapore.
- **Keynote Lecture:** *Downscaling Methods for Evaluating the Impact of Climate Change and Variability on Hydrological Regime at Basin Scale*, Workshop on Study of Ecological Life Cycles in Cities and Middle Grade Mountain Areas, Nihon University, Koriyama, August 2, 2006, Japan.
- **Keynote Lecture:** *Downscaling Methods for Evaluating the Impacts of Climate Change and Variability on Hydrological Regime at Basin Scale*, International Symposium on Role of Water Sciences in Transboundary River Basin Management, March 10-12, 2005, Ubon Ratchathani, Thailand.
- **Keynote Lecture:** *Some Recent Advances in Statistical Modeling of Extreme Rainfall Processes*, International Conference on Modeling Tools for Environment Resources Management, June 6-10, 2005, Asian Institute of Technology, Thailand.
- **Keynote Lecture:** *Some Recent Advances in the Estimation of Extreme Rainfall Events*, International Conference on Sustainable Water Resources Management, November 17-19, 2004, Colombo, Sri Lanka.
- **Special Invited Scientific Lecture** invited by the World Meteorological Organization (WMO) on “*Climate Change: How to discern the hydrological impacts at basin level?*” at the Twelfth Session of the WMO Commission for Hydrology, October 20-29, 2004, Geneva, Switzerland (2004). This meeting is held with the participation of delegates from many different WMO member countries in the world.
- **Keynote Lecture:** *Progress and Challenges in Hydrological Modelling for Sustainable Water Resource Management*, Workshop on Stormwater Analysis and Modeling, February 26-27, 2001, Kuala Lumpur, Malaysia.
- **Keynote Lecture:** *Some Recent Advances in Modelling of Extreme Hydrologic Processes*, International Conference on Hydrology and Water Resources of Humid Tropics, November 24-26, 1998, Ipoh, Malaysia.
- **Keynote Lecture:** *Multi-site multi-season streamflow simulation methods*, Third Regional Conference on Computer Applications in Civil Engineering, 2-4 August 1994, Kuala Lumpur, Malaysia.

PUBLICATIONS

(Over 200 articles in refereed journals, peer-reviewed specialized monographs and refereed conference proceedings have been published since 1979 to date)

Selected Peer-Reviewed Books and Book Chapters

YEO, M-H and NGUYEN, V-T-V. (2014). *A Statistical Approach to Downscaling of Daily Rainfall Process at an Ungaged Site*, Chapter 20 in **Advances in Hydroinformatics**, Gourbesville, P. et al. (Eds), Springer Water Publisher, DOI 10.1007/978-981-287-615-7_20, pp. 285-298.

WILLEMS, P., OLSSON, J., ARNBJERG-NIELSEN, K., BEECHAM, S., PATHIRANA, A., BULOW GREGERSEN, I., MADSEN, H., and NGUYEN, V-T-V. (2012). *Impacts of Climate Change on Rainfall Extremes and Urban Drainage Systems*, **International Water Association Publishing**, 226 pages.

NGUYEN, V-T-V. (2009). *Section 5.7: Rainfall Frequency Analysis*, in “Guide to Hydrological Practices”, Volume II: Management of Water Resources and Application of Hydrological Practices, WMO-No. 168, **World Meteorological Organization**, Geneva, Switzerland, pp. II.5.15 - II.5.31.

NGUYEN, V-T-V., and NGUYEN, T-D. (2008). *Statistical Downscaling of Daily Precipitation Process for Climate-Related Impact Studies*, Chapter 16 in “Hydrology and Hydraulics”, V.P. Singh (Ed.), **Water Resources Publications**, pp. 587-604.

NGUYEN, V-T-V., DESRAMAUT, N., and NGUYEN, T-D. (2008). *Estimation of Urban Design Storms in Consideration of GCM-Based Climate Change Scenarios*, in **Water and Urban Development Paradigms**, J. Feyen, K. Shannon, and M. Neville (Eds.), Taylor and Francis Group, London, UK, pp. 347-356.

NGUYEN, V-T-V. (2007). *On regional estimation of floods for ungaged sites*, in **Advances in Geosciences, Vol. 6: Hydrological Science**, N. Park et al. (Eds.), World Scientific Publishing Company, pp. 55-66.

NGUYEN, T-D., NGUYEN, V-T-V., and GACHON, P. (2007). *A spatial-temporal downscaling approach for construction of intensity-duration-frequency curves in consideration of GCM-based climate change scenarios*, in **Advances in Geosciences, Vol. 6: Hydrological Science**, N. Park et al. (Eds.), World Scientific Publishing Company, pp. 11-21.

NGUYEN, V-T-V., JAVAHERI, H., and LIONG, S-Y. (2000). *On automatic calibration of the SWMM model*, in **Applied Modeling of Urban Water Systems**, W. James (Ed.), Chapter 9, Computational Hydraulics International, Guelph, Ontario, pp. 163-174.

NGUYEN, V-T-V., McPHERSON, M.B., and ROUSSELLE, J. (1978). *Feasibility of storm tracking for automatic control of combined sewer systems*, **ASCE Urban Water Resources Research Program, Technical Memorandum No. 35**, American Society of Civil Engineers, New York, N.

Y., 29 pages.

NGUYEN, V-T-V. (Ed.) (1986). *La recherche en hydrologie au Quebec* (The Research in Hydrology in Quebec), Cahiers de l'ACFAS, No. 35, University of Quebec Presses, Montreal, Quebec, 226 pages.

NGUYEN, V-T-V. and ROUSSELLE, J. (1981). *Probabilistic characterization of point and mean areal rainfalls*, in **Time Series Methods in Hydrosociences**, A.H. El-Shaarawi, and S.R. Esterby (Eds.), *Development in Water Science*, Vol. 17, Elsevier, pp. 292-296.

Selected Refereed Journal Publications

KHALILI, M. and NGUYEN V-T-V. (2016). An Efficient Statistical Approach to Multi-Site Downscaling of Daily Precipitation Series in the Context of Climate Change, *Climate Dynamics*, DOI 10.1007/s00382-016-3443-6, 18 pages.

GADO, T-A. and NGUYEN, V-T-V. (2016). Regional estimation of floods for ungaged sites using partial duration series and scaling approach, *ASCE Journal of Hydrologic Engineering*, DOI: 10.1061/(ASCE)HE.1943-5584.0001439, 12 pages.

GADO, T.A. and NGUYEN, V-T-V. (2016). An at-site flood estimation method in the context of nonstationarity - I. A simulation study, *Journal of Hydrology*, Vol. 535, pp. 710-721, DOI: 10.1016/j.jhydrol.2015.12.063.

GADO, T-A. and NGUYEN, V-T-V. (2016). An at-site flood estimation method in the context of nonstationarity - II. Statistical analysis of floods in Quebec, *Journal of Hydrology*, Vol. 535, pp. 722-736, DOI: 10.1016/j.jhydrol.2015.12.064.

HERATH, S.M., SARUKKALIGE, P.R. and NGUYEN, V-T-V. (2016). A spatial-temporal downscaling approach to development of IDF relations for Perth airport region in the context of climate change, *Hydrological Sciences Journal*, Vol. 61, No. 11, pp. 2061-2070, DOI: 10.1080/02626667.2015.1083103.

GADO, T-A. and NGUYEN, V-T-V. (2015). Comparison of homogeneous region delineation approaches for regional flood frequency analysis at ungauged sites, *ASCE Journal of Hydrologic Engineering*, DOI: 10.1061/(ASCE)HE.1943-5584.0001312, 10 pages.

ARTLERT, K., CHALEERAKTRAKOON, C., and NGUYEN, V-T-V. (2013). Modeling and Analysis of Rainfall Processes in the Context of Climate Change for Mekong, Chi, and Mun River Basins (Thailand), *Journal of Hydro-environment Research*, DOI: 10.1016/j.jher.2013.01.001, pp. 2-17.

WILLEMS, P., ARNBJERG-NIELSEN, K., OLSSON, J., and NGUYEN, V-T-V. (2012). Climate Change Impact Assessment on Urban Rainfall Extremes and Urban Drainage: Methods and Shortcomings, *Atmospheric Research*, Vol. 103, pp. 106-118., DOI:

10.1016/j.atmosres.2011.04.003.

WILLEMS, P., MOLNAR, P., EINFALT, T., ARNBJERG-NIELSEN, K., ONOF, C., NGUYEN, V-T-V., and BURLANDO, P. (2012). Rainfall in the Urban Context: Forecasting, Risk, and Climate Change, *Atmospheric Research*, Vol. 103, pp. 1-3., DOI: 10.1016/j.atmosres.2011.11.004.

KHALILI, M., NGUYEN, V-T-V., and GACHON, P. (2011). A Statistical Approach to Multi-Site Downscaling of Daily Extreme Temperature Series, *International Journal of Climatology*, DOI: 10.1002/joc.3402, 18 pages.

NGUYEN, V-T-V., DESRAMAUT, N., and NGUYEN, T-D. (2010). Optimal rainfall temporal patterns for urban drainage design in the context of climate change, *Water Science and Technology*, Vol. 62, No. 5, pp. 1170-1176.

HARDING, A.E., GACHON, P., and NGUYEN, V-T-V. (2010). Replication of atmospheric oscillations, and their patterns, in predictors derived from Atmosphere–Ocean Global Climate Model output, *International Journal of Climatology*, DOI: 10.1002/joc.2191.

NGUYEN, V-T-V. (2009). Recent Advances in Statistical Modeling of Extreme Rainfalls and Floods, *International Journal on Hydropower & Dams*, Vol. 16, No. 2, pp. 65-70.

DIBIKE, Y.B., GACHON, P., ST-HILAIRE, A., OUARDA, T., and NGUYEN, V-T-V. (2008) Uncertainty Analysis of Statistically Downscaled Temperature and Precipitation Regimes in Northern Canada, *Theoretical and Applied Climatology*, Vol. 91, No. 1-4, pp. 149-170.

NGUYEN, V-T-V., NGUYEN, T-D., and CUNG, A. (2007), A Statistical Approach to Downscaling of Sub-daily Extreme Rainfall Processes for Climate-Related Impacts Studies in Urban Areas, *Water Science and Technology: Water Supply*, Vol. 7, No. 2, pp. 183-192.

COOPER, V., NGUYEN, V-T-V., and NICELL, J. (2007) Calibration of conceptual rainfall runoff models using global optimization methods with hydrologic process-based parameter constraints. *Journal of Hydrology*, Vol. 334, No. 3-4, pp. 455-466.

NGUYEN, V-T-V., NGUYEN, T-D., and ASHKAR, F. (2002), Regional Frequency Analysis of Extreme Rainfalls, *Water Science and Technology*, Vol. 45, No. 2, pp. 75-81.

ZALINA, M.D., DESA, M.N.M., NGUYEN, V-T-V., and AMIR, K. (2002), Selecting a Probability Distribution for Extreme Rainfall Series in Malaysia, *Water Science and Technology*, Vol. 45, No.2, pp. 63-68.

CHOUINARD, L., ELFASHNY, K., NGUYEN, V-T-V., and LAFLAMME, J. (1998). Modelling of icing events based on passive ice meter observations in Quebec, *Atmospheric Research*, Vol. 46, pp. 169-179.

PANDEY, G.R., and NGUYEN, V-T-V. (1999). A comparative study of regression based methods in regional flood frequency analysis, *Journal of Hydrology*, Vol. 225, pp. 92-101.

GREHYS (Adamowski, K., Ashkar, F., Bobée, B., Nguyen, V-T-V., Rousselle, J., and Roy, R.) (1996). Intercomparison of regional flood frequency procedures for Canadian rivers, *Journal of Hydrology*, Vol. 186, pp. 85-104.

NGUYEN, V-T-V., and IN-NA, N. (1992). Plotting formula for Pearson Type III distribution considering historical information, *Environmental Monitoring and Assessment*, Vol. 23, pp. 137-152.

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