

Xu Ye

Previous Position: Research Fellow (Feb.10-Mar.11)

Current Status: Lecturer, S-C Energy & Environment Research Academy, North-China Electric Power University, Peking, China

Contact:

S-C Energy & Environment Research Academy, North-China Electric Power University, Peking, China;

Email: xuye@ncepu.edu.cn



Education

- Ph.D., Thermal Engineering, North China Electric Power University, Beijing, China, July 2010
- M.Sc., Environmental Science, Northeast Normal University, Changchun, China, July 2006
- B.Sc., Environmental Science, Northeast Normal University, Changchun, China, July 2003

Working & Research Experiences

- August 2010 to Present, Research Fellow, School of Civil & Environmental Engineering, Nanyang Technological University, Singapore
 - Participated in the project of “Reducing urban heat within JTC estates by installing subsurface water cooling systems”, funded by JTC Innovation Fund.
 - Participated in the project of “Establishment of a green roof test bed”, funded by NTU.
- February 2010 to August 2010, Project Officer, School of Civil & Environmental Engineering, Nanyang Technological University
 - Participated in the project of “Integrated simulation and optimization approaches for supporting environmental and water resources management”, funded by NTU.
- September 2006 to June 2010, Research Assistant/Ph.D. EERC, North China Electric Power University, Beijing, China
 - Participated in the project of “Integrated Diagnosis, Prevention and Control of Urban Diseases”, the seventh sub-project of the Major State Basic Research Development Program of China (i.e. 973 Programs): System Identification Theory and Ecological Regulation and Control Mechanism of Modern City Diseases.
 - Participated in the project of “Improved Waste Resources Management and Drinking Water Safety in Rural Regions of China”; the project is funded by UNDP and Coca-Cola Company.
 - Participated in the project of “Research on Policy Mechanisms of Drinking Water Safety in Chongzhou City of Sichuan Province”; the project is funded by the Government of China, UNDP.
 - Participated in the project of “Remediation of Petroleum Contamination at Panjin City, Liaoning Province, China”; the project is funded by China National Petroleum Cooperation (CNPC), China.
 - Participated in the project of “Investigation of Interactive Mechanism between Urban Energy Metabolize and Air Pollution in Large Cities of China”, the first sub-project of the Major State Basic Research Development Program of China.

- Participated in the project of “Evaluation of Environmental Policy and Investment for Water Pollution Control in the Huai River and the Taihu Lake Basin”; the project is funded by Asian Development Bank and Ministry of Environment of China.
- September 2003 to March 2006, Research Assistant, Northeast Normal University, Changchun, China
 - Participated in the project of “Environmental Impact Assessment of Chemical Industry Region in Shanghai City, China”.
 - Participated in the project of “Strategical Research of Circular Economy in Jilin Province, China”.
 - Participated in the project of “Environmental Impact Assessment of Highway, Railway and Golf Course in Jilin Province, China”.

Research Interests

- Water Resources Planning and Management
- Air & Solid Waste Management
- Environmental Systems Analysis
- Environmental Impact Assessment
- Urban Storm water management

Honors & Awards

- 2008, First Prize Scholarship and “Excellent Student”, North China Electric Power University
- 2004, First Prize Scholarship and “Excellent Student”, Northeast Normal University
- 2002, Second Prize Scholarship, Northeast Normal University
- 2001, First Prize Scholarship and “Excellent Student”, Northeast Normal University
- 2000, Second Prize Scholarship and “Excellent Student”, Northeast Normal University

Publications

Journal papers

- Xu, Y., Huang, G.H., Qin, X.S., Cao, M. F. (2009). SRCCP: A stochastic robust chance-constrained programming model for municipal solid waste management under uncertainty. *Resources, Conservation and Recycling*, 53: 352-363.
- Xu, Y., Huang, G.H., Qin, X.S., Huang, Y. (2009). SRFILP: A Stochastic robust fuzzy interval linear programming model for municipal solid waste management under uncertainty. *Journal of Environmental Informatics*, 14(2): 74-82.
- Xu, Y., Huang, G.H., Qin, X.S. (2009). An inexact two-stage stochastic robust optimization model for water resources management under uncertainty. *Environmental Engineering Science*, 26: 1765-1776.
- Xu, Y., Huang, G.H., Qin, X.S., Cao, M. F., Sun, Y. (2010). An interval-parameter stochastic robust optimization model for supporting municipal solid waste management under uncertainty. *Waste Management*, 30(2): 316-327.
- Xu, Y., Huang, G.H., Qin, X.S. (2010). An inexact fuzzy-chance-constrained air quality management model. *Journal of the Air & Waste Management Association*, 60(7): 805-819.
- Xu, Y., and X. S.Qin, (2010). Rural effluent control under uncertainty: An inexact double-sided fuzzy chance-constrained model. *Advances in Water Resources*, 33(9): 997-1014.

- Xu, Y.; Huang, G.H., Cao, M.F., (2010). A Hybrid Waste-Flow Allocation Model Considering Multiple Stage and Interval-Fuzzy Chance Constraints. Civil Engineering and Environmental Systems (Submitted).
- Li, Y. F., Huang, G. H., Li, Y. P., Xu, Y., Chen, W. T. (2010). Regional-scale electric power systems planning under uncertainty - A multistage interval stochastic integer linear programming approach. *Energy Policy*, 38(1): 475-490.
- Sun, Y., Huang, G. H., Li, Y. P., Xu, Y., Cao, M. F. (2009). An interval fuzzy robust nonlinear program for the planning of municipal solid waste management systems under uncertainty. *Engineering Optimization*, 41(11): 989-1016.
- Cao, M.F., Huang, G. H., Sun, Y., Xu, Y., Yao, Y. (2010). DIFCCP: Dual inexact fuzzy chance-constrained programming for planning waste management systems. *Stochastic Environmental Research & Risk Assessment*, 24(8): 1163-1174.
- Chen, C., Xu, Y., Shang, J.C., Huang, G.H. (2009). Alternatives of strategic environmental assessment for road traffic development planning—Case of Changchun City, China. *Chinese Geographical Science*, 19(1): 25-36.
- Shao, L.G., Qin, X.S., Xu, Y. (2010). A CVaR-Based Inexact Two-Stage Programming Model for Water Resources Management under Uncertainty, *Water Resources Management* (Accepted).
- Huang, Y., Huang, G.H., Xu, Y. (2010). A Fuzzy-Parameterized Stochastic Modeling System for Predicting Multiphase Subsurface Transport under Dual Uncertainties, *Civil Engineering and Environmental Systems* (in Revision).
- Xu, Y., Huang, G.H., Qin, X.S., Huang, Y. (2010). An Inexact Fuzzy-Chance-Constrained Agricultural Water Quality Management Model. *Journal of An Hui Agricultural Sciences* (in Chinese), 6: 3112-3114.

Conference papers

- Xu, Y., Qin, X.S., (2010). Managing urban waste allocation under multiple uncertainties, In *Proceedings of the 4th International Perspective on Water Resources and the Environment (IPWE 2011)* (Accepted).
- Qin, X.S., Xu, Y., (2010). Sustainable Agricultural Water Quality Management under Uncertainty. In *Proceedings of the 4th International Perspective on Water Resources and the Environment (IPWE 2011)* (Accepted).
- Qin, X.S., Xu, Y. (2010). Inexact Management Modeling for Urban Water Supply Systems, In *Proceedings of the 3rd IWA Asia Pacific Young Water Professionals Conference*, Singapore, Nov. 21-24, 2010, YWP119.
- Qin, X.S., Xu, Y. (2010). River Water Quality Modeling under Dual-Uncertainties: A Fuzzy-Parameterized Stochastic Simulation Method, In *Proceedings of the 9th International Conference on Hydroinformatics*, Tianjin, China, Sep. 6-10, pp.2109-2116.
- Chen, C., Xu, Y., Shang, J.C. (2007). Study on the Establishment of the Forecast Model of System Dynamics in the Strategic Environmental Assessment of Traffic Development Planning in Changchun Municipality, In *Proceedings of the 2nd China International Forum on Environmental Impact Assessment-SEA*, China, pp. 141-151.