

Xie Yajuan

Status at NTU: Research Fellow (completed)
Address: School of Civil & Environmental Engineering,
Nanyang Technological University, Singapore;

Email: phdyxie@gmail.com



Education:

- Ph.D., School of Hydropower & Information Engineering, Huazhong University of Science and Technology, China, June 2012
- MS., School of Hydropower & Information Engineering, Huazhong University of Science and Technology, China, June 2008
- B.Eng., School of computer Science Technology, Nanyang Institute Technology, China, June 2005

Working & Research Experiences

- (1) From September 2012 to September 2013, Research Fellow, School of Civil & Environmental Engineering, Nanyang Technological University, Singapore
 - ❖ Participating in the project of “An integrated model cascade with uncertainty estimation for flood inundation modeling”.
- (2) From March 2009 January 2012, Project major member, School of Hydropower & Information Engineering, Huazhong University of Science and Technology, China
 - ❖ Participated in the project of “National Natural Science Foundation of China” (2007CB714107) (Flood Risk Assessment Project).
- (3) February 2009 to November 2011, Project major member, School of Hydropower & Information Engineering, Huazhong University of Science and Technology, China
 - ❖ Participated in the project of “National Key Basic Research Program of China” (No. 40971208).
- (4) March 2007 to December 2007, System developer, School of Hydropower & Information Engineering, Huazhong University of Science and Technology, China
 - ❖ Participated in the project of “Nantong Emergency command system investigation and development”.

Research Interests

- Flood risk assessment
- Flood modeling
- Information fusion

Honors & Awards

- 2007, School Individual paper award, Huazhong University of Science and Technology, China.
- 2004, C class dynamic scholarship, Nanyang Institute of Technology, China.
- 2003, Third class Excellent student scholarship, School Excellent leader of League, School Excellent League member, School Civilization student, Nanyang Institute of Technology, China.
- 2002, B class dynamic scholarship, Department Excellent leader of League, Nanyang Institute of Technology, China.

Publications

Journal papers

- Yajuan Xie, Shanzhen Yi, Dengpan Ye. "Uncertainty Multi-source Information Fusion for Intelligent Flood Risk Analysis Based on Random Set Theory". The International Journal of Computational Intelligence Systems (IJCIS), 2012.

Conference papers

- Yajuan Xie, Shanzhen Yi, Yang Cao, Yuntao Lu. "Uncertainty Information Fusion for Flood Risk Assessment Based on DS-AHP Method". 2011 19th International Conference on Geoinformatics, Geoinformatics 2011.
- Shanzhen Yi, Yajuan Xie, Yuntao Lu."An integrated spatial DSS design in Hydroinformatics based on ontology and domain modeling".2011 19th International Conference on Geoinformatics, Geoinformatics 2011.
- Yuntao Lu, Shanzhen Yi, Yajuan Xie."Object extraction of remote sensing image by agent and group collaboration technology".2011 19th International Conference on Geoinformatics, Geoinformatics 2011.
- Xie Yajuan, Yi Shanzhen, Cao Yang."Research on Multi-source geographic information Fusion Method in Flood Risk Analysis". Water Resources and Power. 29(9), 157-160, 2011.(in Chinese)
- Shanzhen Yi, Yajuan Xie. "Vulnerability analysis of disaster risk based on geographic information and Dempster-Shafer theory". 2010 18th International Conference on Geoinformatics, Geoinformatics 2010.
- Shanzhen Yi, Yajuan Xie, Xiang Zuo."A Risk Analysis Information Model with Uncertainty for Flood Hazard of Dam-Break", 2010 18th International Conference on Geoinformatics, Geoinformatics 2010.

- Zhuo Wei, Zhilong Sun, YaJuan Xie, Shengsheng Yu. “GPU Acceleration of Integer Wavelet Transform for TIFF Image”. Third International Symposium on Parallel Architectures, Algorithms and Programming (PAAP'10).
- Zhuo Wei, Shu Zhong, Yajuan xie. “A Lossless Compression and Secure Transmission System About Image”. 2010 Second International Conference on MultiMedia and Information Technology.