



Dr. Zhiang Wu

Associate Professor

Research Interests

- Data Mining
- Recommender System
- Network Computing
- Business Intelligence
- Social Network Analysis

Education

- 2004–2009 **Ph.D. in Computer Science**, *Southeast University*, Nanjing, China, Advisor: Prof. Junzhou Luo.
- 2000–2004 **B.S. in Computer Science**, *Nanjing University of Posts and Telecommunications*, Nanjing, China.

Vocational Experience

- 2009–Present **Associate Professor**, *Jiangsu Provincial Key Laboratory of E-Business*, Nanjing University of Finance and Economics, Nanjing, China
- 2012 **Visiting Fellow**, *Centre for Applied Informatics*, Victoria University, Melbourne, Australia

Academic Honors

- 2012 Excellent Service Award, ADMA2012
- 2008 Southeast University Excellent PhD Dissertation Grant Award
- 2008 HuaWei Scholarship
- 2007 Excellent Student Paper Award, NPC2007
- 2007 ChangZhou City People's Government Scholarship
- 2005 Southeast University First Class Scholarship

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Fundings

- 2012–2014 **Young Scientists Fund, granted by National Natural Science Foundation of China (NSFC)**, *Trustworthy Recommendation Methods for E-Business based on Multi-dimensional Space*, No. 61103229, CNY210K.
- 2013–2015 **Sub-Project, granted by National Key Technologies R&D Program of China**, *The 3D Visualization Technology and System for E-Business*, No. 2013BAH16F00, CNY2190K.
- 2012–2015 **Key Project, granted by Natural Science Research in Jiangsu Provincial Colleges and Universities**, *The Key Technologies of Context-aware Recommendation for E-Business in Social Networking*, No. 12KJA520001, CNY150K.
- 2012–2015 **Surface Project, granted by Natural Science Research in Jiangsu Province of China**, *Recommendation Models and Algorithms based on Implicit Knowledge Mining in Social Business*, No. 12KJA520001, CNY150K.

Publications

Journal Published

1. *Wu Zhiang*, Cao Jie, Wu Junjie, Wang Youquan, and Liu Chunyang*. Detecting Genuine Communities from Large-Scale Social Networks: A Pattern-Based Method. **The Computer Journal**, Accepted, Appear in 2013.
2. *Wu Zhiang*, Cao Jie*, Tao Haicheng and Zhuang Yi. A Novel Noise Filter based on Interesting Pattern Mining for Bag-of-features Images. **Expert Systems with Applications**, 40(18): 7555-7561, 2013.
3. *Wu Zhiang*, Wang Youquan, and Cao Jie*. A Survey on Shilling Attack Models and Detection Techniques for Recommender Systems. **Chinese Science Bulletin**, Accepted, Appear in 2013. (In Chinese)
4. Cao Jie, *Wu Zhiang**. An Improved Protocol for Deadlock and Livelock Avoidance Resource Co-allocation in Network Computing. **World Wide Web Journal: Internet and Web Information Systems**, 13(3):373-388, 2010.
5. Cao Jie, *Wu Zhiang*, Wu Junjie, and Xiong Hui. SAIL: Summation-bAsed Incremental Learning for Information-Theoretic Text Clustering. **IEEE Transactions on Cybernetics**, 43(2): 570-584, 2013.
6. Cao Jie, *Wu Zhiang**, Wang Youquan and Zhuang Yi. Hybrid Collaborative Filtering Algorithm for Bidirectional Web Service Recommendation, **Knowledge and Information Systems**, 36(3): 607-627, 2013.
7. Cao Jie, *Wu Zhiang**, Mao Bo, and Zhang Yanchun. Shilling Attack Detection Utilizing Semi-supervised Learning Method for Collaborative Recommender System. **World Wide Web Journal: Internet and Web Information Systems**, 16(5-6): 729-748, 2013.
8. Cao Jie, *Wu Zhiang*, Wu Junjie, and Liu Wenjie. Towards Information-Theoretic K-means Clustering for Image Indexing. **Signal Processing**, 93(7): 2026-2037, 2013.
9. Luo Junzhou, *Wu Zhiang**, Cao Jiuxin, Tian Tian. Dynamic Multi-resource Advance Reservation in Grid Environment. **The Journal of Supercomputing**, 60(3): 420-436, 2012.
10. Cao Jie, *Wu Zhiang**, Zhuang Yi, Mao Bo, and Yu Zeng. A Novel Collaborative Filtering Using Kernel Methods for Recommender Systems, **Chinese Journal of Electronics**, 21(4): 609-614, 2012.

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11. *Wu Zhiang*, Luo Junzhou, Song Aibo. QoS-Based Grid Resource Management. **The Journal of Software**, 2006, 17(11): 2264-2276.(In Chinese)
12. *Wu Zhiang*, Luo Junzhou, Song Aibo, Cao Jiuxin. QoS Guaranteed Service Resource Co-allocation and Management. **The Journal of Software**, 2009, 20(12): 3150-3162.(In Chinese)
13. *Wu Zhiang*, Cao Jie, Wang Youquan. An Improved Deadlock and Livelock Free Protocol for Resource Co-Allocation. **Chinese Journal of Electronics**, 2011, 39(11): 2589-2596. (In Chinese)
14. *Wu Zhiang*, Zhuang Yi, Cao Jie, Wang Youquan. Shilling Attack Detection based on Feature Selection for Recommendation Systems. **Chinese Journal of Electronics**, 2012, 40(8): 1687-1693. (In Chinese)
15. *Wu Zhiang*, Luo Junzhou, Song Aibo, Dong Fang. Data Centers Spanning Dynamic Resource Co-reservation. **Chinese Journal of Computers**, Accepted, Appear 2013. (In Chinese)

Conference Published

1. *Wu Zhiang*, Wu Junjie, Cao Jie, and Tao Dacheng. HySAD: A Semi-Supervised Hybrid Shilling Attack Detector for Trustworthy Product Recommendation. The 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2012**), Beijing, China, August, 2012, pp. 985-993.
2. *Wu Zhiang*, Yin Wenpeng, Cao Jie*, Xu Guandong and Cuzzozrea Alfredo. Community Detection in Multi-relational Social Networks. The 14th International Conference on Web Information System Engineering (**WISE 2013**), LNCS 8181: 43-56.
3. *Wu Zhiang*, Tao Haicheng, Wang Youquan, Fang Changjian and Cao Jie*. A Cloud System for Community Extraction from Super-large Scale Social Networks. The 14th International Conference on Web Information System Engineering (**WISE 2013**), LNCS 8181: 499-502.
4. Wang Yaqiong, Liu Hongfu, Lin Hao, Wu Junjie, *Wu Zhiang*, and Cao Jie. SEA: a system for event analysis on Chinese tweets. The 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2013**), Chicago, IL, USA, August 2013, pp. 1498-1501.
5. *Wu Zhiang*, Cao Jie, Mao Bo, and Wang Youquan. Semi-SAD: Applying Semi-supervised Learning to Shilling Attack Detection. The 5th ACM Conference on Recommender Systems (**RecSys 2011**), Chicago, IL, USA, October, 2011, pp. 289-292.
6. *Wu Zhiang*, Cao Jie and Fang Changjian. Data Cloud for Distributed Data Mining via Pipelined MapReduce. The 10th International Conference on Autonomous Agents and Multiagent Systems (AAMAS) Workshop on Agents and Data Mining Interaction (**ADMI 2011**), Taipei, Taiwan, May, 2011, pp. 316-330.
7. *Wu Zhiang*, Cao Jie and Wang Youquan. Dynamic Advance Reservation for Grid System using Resource Pools. IFIP Network and Parallel Computing (**NPC 2011**). Changsha, China, October, 2011, LNCS 6985, pp. 123-134.
8. Hu Haoran, *Wu Zhiang**, Mao Bo, Zhuang Yi, Cao Jie, and Pan Jingui. Pick-up Tree based Route Recommendation from Taxi Trajectories. The 13th International Conference on Web-Age Information Management (**WAIM 2012**), LNCS 7418, pp. 471-483, 2012.
9. Zhuang Yi, *Wu Zhiang*, Jiang Nan, Jiang Guochang, Chiu Dickson K.W., Hu Hua. Efficient Probabilistic Image Retrieval Based on a Mixed Feature Model. The 14th Asia-Pacific Web Conference (**APWeb 2012**), April 11-13, 2012, Kunming, China, pp. 322-333.
10. Wang Youquan, *Wu Zhiang**, Cao Jie, and Fang Changjian. Towards a Tricky Group Shilling Attack Model against Recommender Systems. The 8th International Conference on Advanced Data Mining and Applications (**ADMA 2012**), December 15-18, 2012, LNAI 7713, pp. 675-688, Nanjing ,China.
11. *Wu Zhiang*, Luo Junzhou. Dynamic Multi-resource Advance Reservation in Grid Environment.

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- IFIP Network and Parallel Computing (**NPC 2007**). LNCS 4672, 2007, pp. 13-22 (Excellent Student Paper Award)
12. *Wu Zhiang*, Luo Junzhou. QoS-Resource Graph Model for Web Service Composition in Service Oriented Computing. The 6th International Conference on Grid and Cooperative Computing (**GCC 2007**). Urumchi, Xinjiang, China: IEEE press, 2007 Aug. 16-18. pp. 411-416.
 13. *Wu Zhiang*, Luo Junzhou. The Measurement Model of Grid QoS. The 10th International Conference on Computer Supported Cooperative Work in Design (**CSCWD 2006**). Nanjing, China: IEEE press, 2006, pp. 914-919.
 14. *Wu Zhiang*, Luo Junzhou, Dong Fang. Measurement Model of Grid QoS and Multi-dimensional QoS Scheduling. Lecture Notes in Computer Science CSCW in Design III 4402, 2006, page: 509-519.
 15. *Wu Zhiang*, Luo Junzhou, Dong Fang, Ni Xudong. QoS Deviation Distance Based Negotiation Algorithm in Grid Resource Advance Reservation. The 11th International Conference on Computer Supported Cooperative Work in Design (**CSCWD 2007**). Melbourne, Australia: IEEE press, 2007, pp. 605-610.
 16. Cao Jie, *Wu Zhiang*, and Wu Junjie. Community Extraction from Massive Social Networks. Business Intelligence in E-Commerce Workshop (**BPS 2012**), in conjunction with International Conference on Information Systems (ICIS 2012), Dec. 15, Orlando, Florida, USA.

Professional Activities

Professional Affiliations

ACM, Member
 IEEE, Member
 CCF, Senior Member
 CCF TCCOMM, Member

International Conference Organizers

- 2014 **Web Chair**, The 14th International Conference on Web Information System Engineering (**WISE 2013**).
- 2013 **Web Chair**, The 6th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (**ASONAM 2014**).
- 2012 **PC co-Chair**, *APWeb 2012 Workshop*, The 3rd International Workshop on Mobile Business Collaboration (**MBC 2012**).
- 2012 **PC co-Chair**, *ADMA 2012 Workshop*, The 1st International Workshop on Social Media Mining, Retrieval and Recommendation Technologies (**SMR 2012**).

Guest Editor

- 2013 **Guest Editor**, *Special issue: "Social Knowledge Discovery and Management"*, International Journal of Social Network Mining (**IJSNM**).

Program Committees

- ICIS 2013 International Workshop on Data Intensive Computing in the Clouds
 DataCloud International Conference on Information Systems
 2013

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ADMA International Conference on Advanced Data Mining and Applications
2012-2013

BPS 2012 SIGPAM Workshop on Business Processes and Services

DANTH 2013 PAKDD Workshop on Data Analytics for Targeted Healthcare

NDCC 2012 National Network and Data Communications Conference in China

Reviewers

Journals The Journal of Supercomputing (TJS), World Wide Web Journal (WWWJ), IEEE
Trans. on Knowledge and Data Engineering (TKDE), Neural Networks, Chinese
Journal of Electronics

Conferences ADMA-2012, SCA-2012, NDCC-2012, BPS-2012, DANTH-2013, ICIS-2013,
PAKDD-2013, ICMLA-2011, KDD-2012, SDM-2013, PAKDD-2013, KDD-2013,
ICDM-2013

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