Lei Shi

State Key Laboratory of Computer Science, Institute of Software, Chinese Academy of Sciences 4# South 4th Street, Zhongguancun, Beijing, China 100080 Email: shilei1025@gmail.com

Research Interests

Machine Learning, Data Mining, Natural Language Processing

Education

Institute of Software, Chinese Academy of Sciences, Beijing, China

Sep 2012 - Present

- graduate student in computer science
- work on unsupervised feature selection and automatic microblog summarization.

Wuhan University, Wuhan, China

Sep 2008 - Jun 2012

- B.Eng. in Computer Science
- Thesis: Container Ship Stowage Plan Based on Muti-Strtegy (Outstanding Thesis Award)

Publications

- Lei Shi, Liang Du, Yi-Dong Shen. Robust Spectral Learning for Unsupervised Feature Selection. The 14th IEEE International Conference on Data Mining (ICDM 2014), Shenzhen, China, December 14-17, 2014.
- Lei Shi, Shuming Shi, Chin-Yew Lin, Yi-Dong Shen, Yong Rui. Unsupervised Template Mining for Semantic Category Understanding. The 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP 2014), Doha, Qatar, October 26-28, 2014. (Full ORAL presentation paper)
- 3. Dilin Wang, **Lei Shi**, Jianwen Cao. Fast Algorithm for Approximate k-Nearest Neighbor Graph Construction. Data Mining in Networks workshop, in conjuntion with ICDM 2013.
- 4. Wenbin Hu, Zhengbing Hu, **Lei Shi**, Peng Luo, Wei Song. Combinatorial Optimization and Strategy for Ship Stowage and Loading Schedule of Container Terminal. Journal of Computers, Vol 7, No 8(2012), 2078-2092

Research&Development Experience

Institute of Software, Chinese Academy of Sciences Research Assistant

Sep 2012 - Present

Beijing, China

· worked on robust unsupervised feature selection. We proposed a unified robust feature selection framework by leveraging a robust graph embedding and a robust sparse spectral regression.

Microsoft Research Asia

Apr 2013 - Jan 2014

Research Intern

Beijing, China

· Worked with Dr. Shuming Shi in the Knowledge Mining Group. During the intership, I mainly focused on short text understanding with semantic knowledge extracted from large scale web corpus.

STCA, Microsoft

Nov 2011 - Apr 2012

Software Development Intern

Beijing, China

· worked with the multimedia team and my mentors were Dr. Litian Tao and Dr. Xin-jing Wang. During the internship, I worked on project which aimed improving the search relevance of Bing in image verticle.

School of Computer Science, Wuhan University

Research Assistant

June 2010 - June 2012 Wuhan.China

· Worked with Prof. Wenbin Hu on self-adaptive and intelligent strategy for yard space plan under uncertainty. I mainly focused on the stowage plan which can be formalized as a combinatorial problem. Container classification algorithm and container stacking strategy were proposed, and group-based encoding genetic algorithm was used to solve this problem.

Awards and Scholarships

- ICDM 2014 student travel award, ICDM 2014
- EMNLP 2014 student scholarsip, EMNLP 2014
- Merit Student of University of Chinese Academy of Sciences, 2014
- Outstanding graduates of Wuhan University, 2012
- Outstanding Bachelor Thesis in Hubei Province, 2012 (5 out of 278 students in our institute)
- National Scholarship, 2010 (4 out of 278 students)
- Third prize of the 4th national information security competition, 2011
- Third prize of the mathematical modeling contest in central China, 2011
- Academic Excellence scholarship of Wuhan University, 2009-2011
- Merit Student of Wuhan University, 2009-2011

Professional Activities

External reviewer for KDD'14, PAKDD'14

Skills

C, C++, C#, Matlab, Java, Python, OpenGL, MySQL