Junbo Zhang

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Education

9/2009 - present   PhD Candidate in School of Information Science and Technology, Southwest Jiaotong University

9/2005 - 7/2009   BEng in Telecommunication Engineering from Southwest Jiaotong University

Experience

5/2013 - present   Research Intern at Huawei Noah's Ark Lab (Hong Kong)

5/2013 - present   Research Assistant at The Chinese University of Hong Kong

2/2012 - 2/2013   Visiting PhD Student in Georgia State University

Publications

- **Junbo Zhang**, Guangjian Tian, Yadong Mu, Wei Fan.
  Supervised Deep Learning with Auxiliary Networks.
  The 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2014**).

- **Junbo Zhang**, Jian-Syuan Wong, Yi Pan, Tianrui Li.
  A Parallel Matrix-based Method for Computing Approximations in Incomplete Information Systems.
  Accepted for publication in the IEEE Transactions on Knowledge and Data Engineering (**TKDE**).

- **Junbo Zhang**, Tianrui Li, Yi Pan, Chuan Luo, Fei Teng.
  A Parallel and Incremental Algorithm for Updating Knowledge Based on Rough Sets in Cloud Computing Platform.
  Accepted for publication in Journal of Software. (in Chinese)

- **Junbo Zhang**, Jian-Syuan Wong, Tianrui Li, Yi Pan,
  A Comparison of Parallel Large-scale Knowledge Acquisition Using Rough Set Theory on Different MapReduce Runtime Systems.
  International Journal of Approximate Reasoning, vol. 55, no. 3, pp. 896-907, 2014.

- **Junbo Zhang**, Tianrui Li, Hongmei Chen,
  Composite Rough Sets for Dynamic Data Mining.
  Information Sciences, vol. 257, pp. 81-100, 2014.

- **Junbo Zhang**, Dong Xiang, Tianrui Li, Yi Pan,
  M2M: A Simple Matlab-to-MapReduce Translator for Cloud Computing.
  Tsinghua Science and Technology, vol 18, no. 1, pp. 1-9, 2013.

- Yi Pan, **Junbo Zhang**,
  Parallel Programming on Cloud Computing Platforms: Challenges and Solutions.
  KITCS/FTRA Journal of Convergence, vol. 3, no. 4, pp. 23-28,2012.

- **Junbo Zhang**, Tianrui Li, Da Ruan, Zizhe Gao, Chengbing Zhao,
  A Parallel Method for Computing Rough Set Approximations.
  Information Sciences, vol. 194, pp. 209-223, 2012.

- **Junbo Zhang**, Tianrui Li, Da Ruan, Dun Liu,
  Rough Sets Based Matrix Approaches with Dynamic Attribute Variation in Set-valued Information Systems.
  International Journal of Approximate Reasoning, vol. 53, no. 4, pp. 620-635, 2012.

- **Junbo Zhang**, Tianrui Li, Da Ruan, Dun Liu,
  Neighborhood Rough Sets for Dynamic Data Mining.
  International Journal of Intelligent Systems, vol. 27, no. 4, pp. 317-342, 2012.

Awards & Honors

- National Scholarship, China, 2013.
- National Scholarship, China, 2012.
- ``Si Shi Yang Hua '' Medal in Southwest Jiaotong University, 2012. (Top 1/1000, the students' top honor of Southwest Jiaotong University).
- 2009-2014 Special Grade Scholarship for PhD Students, Southwest Jiaotong University.
- First Prize in the 9th ``Huawei Cup'' National Postgraduate Mathematical Contest in Modeling, China, 2012.
- Second Prize in the 8th National Postgraduate Mathematical contest in Modeling, China, 2011.
- Second Prize in the 2nd ``Huawei Cup'' Innovation Programming Contest, China, 2010.
- Second Prize in the 6th National Postgraduate Mathematical contest in Modeling, China, 2009.
- Second Prize in the 2nd Sichuan Provincial Programming Contest, China, 2008.
- Honorable Mention in the 33th ACM Asia Programming Contest, 2008.
- Second Prize in the 1st Sichuan Provincial Programming Contest, China, 2007.
- Second Prize (the 12th Place in person) in the TopCoder Sichuan Provincial Contest, China, 2007.
- Third Prize in National Electrical Engineering Association Mathematical Contest in Modeling, China, 2007.

- The President Scholarship of School of Information Science and Technology, Southwest Jiaotong University, 2006, 2007.

- 2005-2009 Undergraduate Comprehensive Scholarship of Southwest Jiaotong University.

Projects

Current

- [Nov. 2012 - Present] Research on dynamic knowledge discovery techniques and efficient algorithms under granular computing, the Fostering Foundation for the Excellent Ph.D. Dissertation of Southwest Jiaotong University, China. Leader and principal investigator.

- [Otc. 2012 - Present] Dynamic knowledge discovery system based on rough sets in cloud computing environments, the Science and Technology Planning Project of Sichuan Province, China. Leader and principal investigator.

Past

- [Otc. 2011 - Sep.2012]Research on dynamic knowledge discovery techniques under granular computing and probabilistic rough sets, and its fast algorithms based on cloud computing, the Doctoral Innovation Funding Project of Southwest Jiaotong University, China. Leader and principal investigator.

- [Otc. 2011 - Sep.2012] Research on dynamic knowledge discovery system based on cloud computing and rough sets, the Young Software Innovation Foundation of Sichuan Province, China. Leader and principal investigator.

- [May. 2012 - July.2012] 8-week NSF REU Undergraduate Summer Research Program hosted by the Department of Computer Science, Georgia State University, the National Science Foundation, USA. Participated as a mentor.

- [Jan. 2012 - Present] Research on dynamic updating knowledge theories and algorithms based on granular computing, the National Natural Science Foundation of China.

- [Jan. 2012 - Present] Research on composite rough set models and algorithms of knowledge discovery, the National Natural Science Foundation of China.

- [Jan. 2009 - Dec. 2011] Research on incremental learning theories and methods based on granular computing, the National Natural Science Foundation of China.