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Keren Zhou

Research Interests

- Multi-core Algorithms.
- Distributed Systems

Education

2014-2017 M.S. in Institute of Computing Technology, Chinese Academy of Sciences

(expected) Adviser: Guangming Tan (http://www.ncic.ac.cn/~tgm)

GPA: 90/100

2010-2014 B.E. in School of Software, Yunnan University

Adviser: Wei Zhou

Thesis: A Practical Concurrent Quadtree

GPA: 92/100

Research Experience

2015.6- Research Assistant, Institute of Computing Technology, Chinese Academy of Sciences present

Deep Learning for Biological Images

- Develop a deep learning framework for biological applications (e.g., membranes detection, cell movement trace).
- Improve the performance of parallel neural networks on modern architectures by vectorization and blocking techniques.
- 2013.1- Research Assistant, Intelligent Web Laboratory, Yunnan University 2014.7

Concurrent Data Structures

- Revisit basic concurrent data structures, prove their correctness, and evaluate their performance.
- Design concurrent tree data structures like AVL-Tree, RB-Tree, KD-Tree, and Quadtree.

Industry Experience

- 2013.10- Research and Develop Intern, Baidu 2014.2
 - Optimize Hadoop work-flow which extracts thousands of features from the raw text files, and load them into data warehouses.
 - o Reference: Jing Li, lijing16@baidu.com

Publications

- [1] ZHOU, Wei; **Keren, Zhou**; RUAN, Zhongzhi; YAO, Shaowen; QIAN, Depei: A Survey on Modern Multi-core Based Concurrent Data Structure. In: *Journal of Software* (2016)
- [2] ZILONG, Tan; **Keren, Zhou**; HAO, Zhang; WEI, Zhou: BF-MapReduce: A bloom filter Based Efficient Lightweight Search. In: *International Conference on Collaboration and Internet Computing (CIC) on* IEEE, 2015
- [3] QIANG, Li; MAOJIE, Gu; **Keren, Zhou**; XIAOMING, Sun: Mining User Features for Purchase Prediction in M-Commerce. In: *Data Mining Workshop (ICDMW), 2015 IEEE International Conference on IEEE, 2015*
- [4] Zhou, Wei; Lu, Jin; **Keren, Zhou**; Wang, Shipu; Yao, Shaowen: Concurrent Skiplist Based Double-Layer Index Framework for Cloud Data Processing. In: *Journal of Computer Research and Development* 52 (2015), Nr. 7, S. 1531–1545
- [5] Keren, Zhou; Yu, Qian; Zhu, Zhenwei; Liu, Wenjia: Dynamic Vegas: A Competitive Congestion Control Strategy. In: Proceedings of International Conference on Computer Science and Information Technology Springer, 2014, S. 333–340

Awards and Honors

2016	Merit Students of Chinese Academy of Sciences
2016	Schlumberger Scholarship

- 2015 Top 10, Alibaba 1st Middleware Engineering Contest
- 2014 Bronze Medal, The 2014 ACM-ICPC Asia Anshan Regional Contest
- 2014 Best B.E. Degree Thesis of Yunnan University
- 2013 Best Creative Award, Baidu Future Search Engine Contest
- 2013 Meritorious Winner, Mathematical Contest in Modeling
- 2011 Second Prize, China Undergraduate Mathematical Contest in Modeling
- 2011,2012 National Scholarship
- 2011,2012 Merit Students of Yunnan Province

Skills

Languages: C, C++, Java, Python, Bash, Javascript Parallelism: Pthread, Openmp, MPI, CUDA, SIMD

Language

English GRE 325, TOEFL 107