Wei Rang

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EDUCATION

Southern Illinois University Carbondale   2015-2017
Master of Computer Science
GPA: 4.0/4.0

Shandong Normal University   2009-2013
Bachelor of Engineering
GPA: 3.51/4.0

COMPUTER AND PROGRAMMING SKILLS

C/C++, Java, Oracle, SQL Server, MongoDB, Rational Rose, Linux, Matlab, R, Python

EXPERIENCE

Computer Science Department   UNCC   2017-Present
Research Assistant

- Researches on Cloud Computing, Distributed System and Parallel Computing, especially on memory management and non-volatile memory with GPU computation
- Teaching assistant of Computer Network class

Computer Science Department   SIUC   2015-2017
Research Assistant

- Parallelizing K-Means Clustering Algorithm with OpenMP and MPI
- Gene Network Statistical Analysis with R language
- Image Processing on Distribution Pattern of Plant Roots with Matlab
- File Sharing on Peer-to-peer Network with Java

Dareway Software Inc.   China   2013-2014
Software Engineer and Programmer

- Developing and maintaining an Intelligent Master Station for the State Grid with Java and Oracle.
- Developing a program for automatically acquiring addresses of energy meters, and deploying it in the State Grid to help analyze the running conditions of energy meters.

Qinlin No.1 Middle School   China   2013
Intern as Network Administrator

- Maintaining networks in the Network Department, installing operating systems, configuring networks, and recovering from various hardware and software failures.

Qilu Software Design Competition   China   2011
Database Administrator

- Electronic Map of Campus, developing API of the database, and designing tables, structures, and algorithms.

PUBLICATIONS

- **Wei Rang**, Donglin Yang, Dazhao Cheng. "A Shared Memory Cache Layer across Multiple Executors in Apache Spark" IEEE International Conference on Big Data (BigData), 2020.
- **Wei Rang**, Donglin Yang, Dazhao Cheng, Kun Suo, Wei Chen. "Data Life Aware Model Updating Strategy for Stream-based Online Deep Learning" IEEE International Conference on Cluster (Cluster), 2020.

- Donglin Yang, Dazhao Cheng, **Wei Rang**. "Mitigating Stragglers in the Decentralized Training on Heterogeneous Clusters" ACM/IFIP International Conference on Middleware (Middleware), 2020.
- Donglin Yang, **Wei Rang** and Dazhao Cheng. "Elastic Executor Provisioning for Iterative Workloads on Apache Spark" IEEE International Conference on Big Data (BigData), 2019.
- Donglin Yang, **Wei Rang**, Dazhao Cheng, Yu Wang. "Joint Optimization of MapReduce Scheduling and Network Policy in Hierarchical Data Centers." Transactions on Cloud Computing (TCC).
- Donglin Yang, **Wei Rang** and Dazhao Cheng. "Joint optimization of mapreduce scheduling and network policy in hierarchical clouds" Proceedings of the 47th International Conference on Parallel Processing (ICPP). ACM, 2018.
- Jane Geisler-Lee, Xian Liu, **Wei Rang** et al. "Image-Based Analysis to Dissect Vertical Distribution and Horizontal Asymmetry of Conspecific Root System Interactions in Response to Planting Densities, Nutrients and Root Exudates in Arabidopsis thaliana" Plants 6.4 (2017): 46.

CERTIFICATES, HONORS AND AWARDS
- Graduate School Summer Fellowship, June 2018
- Certificate of Junior Software Engineer, November 2013
- Shandong Outstanding Graduate Awards, June 2013
- Shandong Normal University Outstanding Graduate Awards, May 2013
- National Encouragement scholarship, October 2012
- Shandong Normal University Outstanding Student Awards, December 2011
- Shandong Normal University Merit Scholarship, December 2010