SHULIN ZHAO

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EDUCATION

Pennsylvania State University *2016 - present*
Ph.D. Candidate in Computer Science and Engineering
Advisors: Prof. Mahmut Taylan Kandemir and Prof. Anand Sivasubramaniam
Overall GPA: 3.9/4.0

Shandong University *2013 - 2016*
M.S. in Computer Science and Technology
Overall GPA: 3.8/4.0

Shandong University *2008 - 2012*
B.S. in Control Science and Engineering
Overall GPA: 3.2/4.0

RESEARCH EXPERIENCE

Pennsylvania State University 2016 - present
Computer System Lab (CSL) *PA, US*

· Optimizing Video Processing Pipeline in the Mobile SoC.
· Optimizing Sensing Energy Consumption on Internet of Things Platforms.

Lenovo Networking Summer 2016
Mentor: Yuan Li *Shanghai, China*

· Lenovo OpenStack Plugins to Monitor Network Resources in a Stateless Way.

Shandong University Summer 2015
Advisor: Prof. Hongjun Dai *Jinan, China*

· A Head Record Cache Structure to Improve the Operations on Big-Files in Datacenters.

Inspur Server Group 2014 - 2015
Advisor: Zhilou Yu *Jinan, China*

· Iscsi Enterprise Target Dual-Controller Server based on Kernel-independent Cache Module.

Tsinghua University Summer 2014
Advisor: Prof. Mingyao Qi *Shenzhen, China*

· A k-Combination First-Fit Solution for Three-dimensional Knapsack Packing Problem (3DKP).

PUBLICATIONS

[C1]. Prasanna Venkatesh Rengasamy, Haibo Zhang, Nachiappan Chidhambaram Nachiappan, **Shulin Zhao**, Anand Sivasubramaniam, Mahmut Kandemir, Chita R Das "Characterizing Diverse Handheld Apps for Customized Hardware Acceleration", *In proceedings of 2017 IEEE International Symposium on Workload Characterization.* **(IISWC 2017)**

[C2]. Haibo Zhang, Prasanna Venkatesh Rengasamy, **Shulin Zhao**, Nachiappan Chidambaram Nachiappan, Anand Sivasubramaniam, Mahmut T. Kandemir, Ravi Iyer, Chita R. Das "Race-to-sleep + Content Caching + Display Caching: a Recipe for Energy-efficient Video Streaming on Handhelds", *In proceedings of The 50th Annual IEEE/ACM International Symposium on Microarchitecture.* **(MICRO 2017)**

[J3]. Hongjun Dai, **Shulin Zhao**, Kang Chen "A Chaos-oriented Prediction and Suppression Model to Enhance the Security for Cyber Physical Power Systems. ", *Journal of Parallel and Distributed Computing* **(Parallel Distrib. Comput. 2017)**

[J4]. Lei Liu, **Shulin Zhao**, Zhilou Yu, Hongjun Dai "A Big Data Inspired Chaotic Solution for Fuzzy Feedback Linearization Model in Cyber-physical Systems", *Ad Hoc Networks.* **(Ad Hoc Networks 2015)**

[J5]. Hongjun Dai, **Shulin Zhao**, Jiutian Zhang, Meikang Qiu, Lixin Tao "Security Enhancement of Cloud Servers with a Redundancy-based Fault-tolerant Cache Structure", *Future Generation Computer Systems.* **(Future Generation Comp. Syst. 2015).**

[C6]. Yuechen Tao, Hongjun Dai, Bingyong Sun, **Shulin Zhao**, Meikang Qiu, Zhilou Yu "A Head Record Cache Structure to Improve the Operations on Big Files in Cloud Storage Servers", *In Proceedings of 17th IEEE International Conference on High Performance Computing and Communications.* **(HPCC 2015)**

[J7]. Hongjun Dai, **Shulin Zhao**, Zhiping Jia, Tianzhou Chen "Low-Cost Ultrasonic Distance Sensor Arrays with Networked Error Correction", *Sensors.* **(Sensors 2013)**

TECHNICAL STRENGTHS

Programming	C/C++, Python, Matlab
Tools	Gem5, Multi2Sim, DramSim2, Pin

REFERENCES

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