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Mingzhe Zhang

Ph.D candidate

Education

Bachelor of Computer Science, Nanking University of Posts and Telecommunications, 2004-2008

Nanking, China.

Master of Computer Science, Inner Mongolian University, Hohhot, China. 2009-2013

Ph.D Candidate of Computer Science, Institute of Computing Technology, Chinese 2013-Now Academy of Science (ICT, CAS), Beijing, China.

Experience

Jun.2008-Sep.2009, Engineer, Institute of Software, Chinese Academy of Science (ISCAS)

Jul.2008-Project Manager, "Web-based Management System For "Torch Plan" Software Park

Dec.2008 Around China".

Duty:

Project Management Design the testing plan

Modify MVC framework for web design based on C#

Dec.2008-**Engineer**, "Network Control System For China Railway High-speed (CRH)".

Sep.2009

Design and implement the signal translation system for on-board signal analysis based on C and C#

Oct.2010 - Jun.2013, Visiting Student, Institute of Computing Technology, Chinese Academy of Science (ICT, CAS)

Project Manager and Developer, "Simulator for Rad-Hard 32-bit SPARC V8 Proces-Oct.2010-Jul.2011

sor".

Implement of SPARC V8 Instruction Set in Simplescalar simulator

Modify the simulator for SPARC V8 support Implement of debug support on simulator

Make test plan Document Work

Nov.2012-Architect, "Many-core Processor for High-throughput Applications (Godson-D)".

Feb.2013

Design the NoC sub-system

Evaluate the NoC design on simulator

Jan.2013- Project Manager, "Full-system Simulator for ARMv8 Instruction Set".

Sep.2013 Duty

Project Management

Develop automatic tool of code generation for ARMv7 Decoding Module based on Python

Nov.2015 - Nov.2016, Visiting PhD student, Department of Computer Science, University of Chicago (Supported by China Scholarship Council)

Nov.2010– current , Write Scheme for MLC PCM lifetime improvment.

Languages

 English
 CET4
 512/710

 English
 CET6
 498/710

 English
 PETS-5/WSK
 71/100

Computer skills

Programming

C/C++, Python, C#, Verilog(few)

Languages:
Architecture

SimpleScalar, Graphite, PhoenixSim,

Simulation: GEM5, DRAMsim, Simics

Others: Latex, Matlab

Honor

- * 2011 Outstanding Student of State Key Laboratory of Computer Architecture, ICT, CAS
- * 2012 Outstanding Student of State Key Laboratory of Computer Architecture, ICT, CAS
- * 2012 Excellent Presentation Award of 2nd Ph.D Forum of Micro-electronic in Beijing
- * 2014 Outstanding Student of University of Chinese Academy of Sciences

Self-presentation

o Hard-working??

o Optimistic

Self-confidence

o Ambitious attitude essential

Dedication

Dynamic and honest

Publications

- * Shaoli Liu, Tianshi Chen, Ling Li, Xi Li, Mingzhe Zhang, Chao Wang, Haibo Meng, Xuehai Zhou, and Yunji Chen, "FreeRider: Non-local Adaptive Network-on-Chip Routing with Packet-Carried Propagation of Congestion Information", IEEE Transaction on Parallel and Distributed Systems. Vol 26(8)čň pp. 2272-2285, 2015.
- * Lunkai Zhang, Dmitri B. Strukov, Hebatallah Saadeldeen, Dongrui Fan, Mingzhe Zhang, Diana Franklin, "SpongeDirectory: flexible sparse directories utilizing multi-level memristors". PACT 2014: 61-74

- * Xiaochun Ye, Dongrui Fan, Ninghui Sun, Shibin Tang, Mingzhe Zhang, Hao Zhang, "SimICT: A fast and flexible framework for performance and power evaluation of large-scale architecture". ISLPED 2013: 273-278
- * Lunkai Zhang, Mingzhe Zhang, Lingjun Fan, Da Wang, Paolo lenne, "Spontaneous Reload Cache: Mimicking a Larger Cache with Minimal Hardware Requirement". NAS 2013: 31-40
 * Shuai Zhang, Zhiyong Liu, Dongrui Fan, Fenglong Song, Mingzhe Zhang, "Energy-
- * Shuai Zhang, Zhiyong Liu, Dongrui Fan, Fenglong Song, Mingzhe Zhang, "Energy-Performance Modeling and Optimization of Parallel Computing in On-Chip Networks".

 TrustCom/ISPA/IUCC 2013: 879-886
- * Mingzhe Zhang, Da Wang, Xiaochun Ye, Liqiang He, Dongrui Fan, Zhiyong Liu, "A Path-Adaptive Opto-electronic Hybrid NoC for Chip Multi-processor". Trust-Com/ISPA/IUCC 2013: 1198-1205
- * Mingzhe Zhang, Liqiang He, Dongrui Fan, "Self-Correction Trace Model: A Full-System Simulator for Optical Network-on-Chip". IPDPS Workshops 2012: 242-247