Yipei Niu

Ph.D. candidate
School of Computer Science and Technology
Huazhong University of Science and Technology
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Education

Doctor of Philosophy (Ph.D.) candidate in Computer Science
Huazhong University of Science and Technology, China   2016–Present
Adviser: Professor Fangming Liu
Research interests: OpenStack, Hybrid Cloud, Container

Master of Engineer (M. Engr.) in Computer Science
Huazhong University of Science and Technology, China   2014–2016
Thesis: Load Balancing for Internet Applications in Hybrid Cloud
Adviser: Professor Fangming Liu
Research interests: Hybrid Cloud, Queueing Theory, Online Algorithm

Bachelor of Engineer (B. Engr.) in Computer Science
Henan University, Kaifeng, Henan, China   2009–2013

Publications

JOURNAL ARTICLES

1. Fangming Liu, Bin Luo, **Yipei Niu**, "Cost-Effective Service Provisioning for Hybrid Cloud Applications", *ACM/Springer Journal on Mobile Networks and Applications (MONET)*, April 2017, Volume 22, Issue 2, pp 153-160.

CONFERENCE ARTICLES

1. **Yipei Niu**, Fangming Liu, Zongpeng Li, "Load Balancing across Microservices", *in Proc. of IEEE INFOCOM*, Honolulu, Hawaii, USA, April, 2018.

2. **Yipei Niu**, Fangming Liu, Xincai Fei, and Bo Li, "Handling Flash Deals with Soft Guarantee in Hybrid Cloud", *in Proc. of IEEE INFOCOM*, Atlanta, Georgia, USA, May, 2017.

3. **Yipei Niu**, Bin Luo, Fangming Liu, Jiangchuan Liu, and Bo Li, "When Hybrid Cloud Meets Flash Crowd: Towards Cost-Effective Service Provisioning", *in Proc. of IEEE INFOCOM*, Hong Kong, China, April, 2015.

4. Bin Luo, **Yipei Niu**, and Fangming Liu, "Cost-effective service provisioning for hybrid cloud applications", *in Proc. of EAI CollaborateCom*, Wuhan, China, November, 2015.

Software

1. Tricircle: A system for networking automation across Neutron 2016–Present
   Features: Dynamic pod binding (Ocata), Load-Balancing-as-a-Service (Queens), L3 networking model (ongoing in Rocky).

Teaching

1. Teaching Assistant | Huazhong University of Science and Technology, China Fall 2014
   IoT1401: Introduction to Internet of Things

Awards

National Scholarship 2016–2017

Zhixing Scholarship 2016–2017