Yipei Niu

Ph.D. candidate
School of Computer Science and Technology
Huazhong University of Science and Technology
Wuhan, Hubei, China

newypei@gmail.com
https://newypei.github.io/

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: Hybrid Cloud, OpenStack, FPGA

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

CONFERENCE ARTICLES

1. **Yipei Niu**, Fangming Liu, Zongpeng Li, "Load Balancing across Microservices", *in Proc. of IEEE INFOCOM* (CCF A-rank), 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* (CCF A-rank), 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* (CCF A-rank), 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* (CCF C-rank), Wuhan, China, November, 2015.

5. Panpan Jin, Jian Guo, Yikai Xiao, Rong Shi, **Yipei Niu**, Fangming Liu, Chen Qian, Yang Wang, "Postman: Rapidly Mitigating Bursty Traffic by Offloading Packet Processing", *in Proc. of USENIX ATC* (CCF A-rank), Renton, WA, USA, July, 2019.

JOURNAL ARTICLES

1. Fangming Liu, Bin Luo, **Yipei Niu**, "Cost-Effective Service Provisioning for Hybrid Cloud Applications", *in proc. of ACM/Springer Journal on Mobile Networks and Applications (MONET)* (CCF

C-rank), April 2017, Volume 22, Issue 2, pp 153-160.

2. Xiuxiu Wang, **Yipei Niu**, Fangming Liu, and Zichen Xu, "When FPGA Meets Cloud: A First Look at Performance", *to appear in IEEE Transactions on Cloud Computing* (CCF C-rank)*, 2020.

Software

1. Tricircle: A system for networking automation across Neutron   2016–Present
   OpenStack Big-tent project
   Features: Dynamic pod binding (Ocata), Load-Balancing-as-a-Service (Queens), L3 networking model (Stein).

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