Gaoxiong Zeng

Contact Information

Email: gaoxiongzeng@qq.com Office 3661 (Lift 31/32), Academic Building

Telephone: +852-68713173 Hong Kong University of Science and Technology

Webpage: https://gaoxiongzeng.github.io Clear Water Bay, Hong Kong SAR, China

Education

Hong Kong University of Science and Technology (HKUST)Hong Kong, ChinaPh.D. in Computer Science and Engineering2015 - Present

Advisor: Prof. Kai Chen

University of Science and Technology of China (USTC)

Hefei, China

B.E. in Electronic Engineering and Information Science 2011 - 2015

Experiences

[Research Intern] Peng Cheng Laboratory, Shenzhen, China	2019.09 - 2020.01
[Research Intern] Huawei, Hong Kong, China	2018.11 - 2019.01
[Research Intern] Chinese Academy of Sciences, Beijing, China	2014.07 - 2014.08

Research Interests

Data Center Networking; Machine Learning Systems.

Publications

Conference Publications:

[C-2] Aeolus: A Building Block for Proactive Transport in Datacenters

Shuihai Hu, Wei Bai, Gaoxiong Zeng, Zilong Wang, Kai Chen, Kun Tan, Yi Wang The Annual Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), 2020.

[C-1] Congestion Control for Cross-Datacenter Networks

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu, Lei Cui The 27th IEEE International Conference on Network Protocols (ICNP), 2019.

Workshop Publications:

[W-2] Rethinking Transport Layer Design for Distributed Machine Learning

Jiacheng Xia, **Gaoxiong Zeng**, Junxue Zhang, Weiyan Wang, Wei Bai, Junchen Jiang, Kai Chen The 3rd ACM Asia-Pacific Workshop on Networking (**APNet**), 2019.

[W-1] Combining ECN and RTT for Datacenter Transport

Gaoxiong Zeng, Wei Bai, Ge Chen, Kai Chen, Dongsu Han, Yibo Zhu The 1st ACM Asia-Pacific Workshop on Networking (APNet), 2017.

Journal Publications:

[J-1] Transport Protocols for Data Center Networks: A Survey

Gaoxiong Zeng, Shuihai Hu, Junxue Zhang, Kai Chen

Journal of Computer Research and Development (J-CRAD), 2020.

Posters & Demos:

$\circ\,$ Improved Path Compression for Explicit Path Control in Production Data Centers

Shuihai Hu, Kai Chen, Gaoxiong Zeng

The 13th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2016.

Honors & Awards

[HKUST] Research Postgraduate Scholarship	2015, 2016, 2017, 2018, 2019, 2020
[ACM APNet] Student Travel Grant	2017
[USTC] Graduation Award of the Talent Program in Computer & Information	tion Sci. & Tech. 2015
[USTC] 1^{st} Place in the Electronics Design Competition of the Talent Program	gram 2014
[USTC] Outstanding Student Scholarship	2012, 2013, 2014
[Department of Education, Guangdong] Provincial Soong Ching Ling Schol	larship 2010