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, China
Ph.D. in Computer Science and Engineering Advisor: Prof. Kai Chen	2015 - Present
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 Technologies, Hong Kong, China	2018.11 - 2019.01
[Research Intern] Chinese Academy of Sciences, Beijing, China	2014.07 - 2014.08

Research Interests

Data Center Networking (e.g., transport protocols, programmable networks, and distributed machine learning).

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 & Informa	tion Sci. & Tech. 2015
[USTC] 1^{st} Place in the Electronics Design Competition of the Talent Prog	gram 2014
[USTC] Outstanding Student Scholarship	2012, 2013, 2014
[Department of Education, Guangdong] Provincial Soong Ching Ling School	larship 2010