Jinbin Hu | Curriculum Vitae

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I am currently a Post-doctoral from Department of Computer Science and Engineering, Hong Kong University of Science and Technology, Hong Kong SAR, advised by Prof. Kai Chen. My current research centers on transport protocols and load balancing for large-scale datacenter networks, RDMA networking, learning-based network systems, privacy-preserving computing, and programmable switching architectures*.

Education

- **PostDoc, Dept. of CSE, HKUST** — **Hong Kong SAR**
  Computer Science and Engineering — *1.2022–*
  Advisor: Prof. Kai Chen.
- **Ph.D., School of Computer Science & Engineering, Central South University** — **Changsha, China**
  Computer Science and Technology — *9.2016–12.2020*
  Advisor: Prof. Jiawei Huang.
- **M.S., School of Electronic & Information Engineering, Beijing Jiaotong University** — **Beijing, China**
  Microelectronics and Solid State Electronics — *9.2008–1.2011*
  Advisor: Prof. Xiaoguang Li.
- **B.S., School of Electronic & Information Engineering, Beijing Jiaotong University** — **Beijing, China**
  Electronic Science and Technology — *9.2004–7.2008*

Experiences

- **Changsha University of Science & Technology** — **Changsha, China**
  Lecturer — *12.2021–*
  Teaching and researching in School of Computer and Communication Engineering.
- **Hunan Mechanical & Electrical Polytechnic** — **Changsha, China**
  Engineer — *12.2021–8.2014*
  Teaching and researching in School of Electrical Engineering.
- **National University of Defense Technology** — **Changsha, China**
  FPGA Verification Engineer — *8.2013–8.2014*
  Responsible for FPGA verification of multi-core CPU in Microelectronics Institute.
- **Empyrean Technology Co., Ltd** — **Beijing, China**
  IC Software Test Engineer — *1.2011–8.2013*
  Responsible for IC simulation software testing.

*Last Updated Jan. 2022

Publications

1. **Adjusting Switching Granularity of Load Balancing for Heterogeneous Datacenter Traffic** *6.2021*
Jinbin Hu, *Jiawei Huang**, *Wenjun Lv, Weihe Li, Zhaoyi Li, Wenchao Jiang, Jianxin Wang and Tian He.*
IEEE/ACM Transactions on Networking, 2021, 29(5): 2367-2384.

2. **CAPS: Coding-based Adaptive Packet Spraying to Reduce Flow Completion Time in Data Center** *10.2019*
Jinbin Hu, *Jiawei Huang**, *Wenjun Lv, Yutao Zhou, Jianxin Wang and Tian He.*
IEEE/ACM Transactions on Networking, 2019, 27(6): 2338-2353.

3. **RPO: Receiver-driven Transport Protocol Using Opportunistic Transmission in Data Center** *11.2021*
Jinbin Hu, *Jiawei Huang, Zhaoyi Li, Yijun Li, Wenchao Jiang, Kai Chen, Jianxin Wang and Tian He.*
In Proc. IEEE ICNP, 2021.

4. **AMRT: Anti-ECN Marking to Improve Utilization of Receiver-driven Transmission in Data Center** *8.2020*
Jinbin Hu, *Jiawei Huang, Zhaoyi Li, Jianxin Wang and Tian He.*
In Proc. ACM ICPP, 2020.

5. **TLB: Traffic-aware Load Balancing with Adaptive Granularity in Data Center Networks** *8.2019*
Jinbin Hu, *Jiawei Huang, Wenjun Lv, Weihe Li, Jianxin Wang and Tian He.*
In Proc. ACM ICPP, 2019.

6. **CAPS: Coding-based Adaptive Packet Spraying to Reduce Flow Completion Time in Data Center** *4.2018*
Jinbin Hu, *Jiawei Huang, Wenjun Lv, Yutao Zhou, Jianxin Wang and Tian He.*
In Proc. IEEE INFOCOM, 2018.

7. **Coding-Based Distributed Congestion-Aware Packet Spraying to Avoid Reordering in Data Center Networks** *3.2021*
Jinbinh Hu, *Chang Ruan, Lei Wang**, *Osama Alfarraj, Amr Tolba.*
IEEE Access, 2021, 9: 35539-35548.

8. **Survey on traffic management in data center network: from link layer to application layer** *3.2021*
Weihe Li, Jingling Liu, Shiqi Wang, Tao Zhang, Shaojun Zou, ***Jinbin Hu****, *Wanchun Jiang, Jiawei Huang.*
IEEE Access, 2021, 9: 38427-38456.

9. **Motion Prediction Based TDMA Protocol in VANETs** *3.2021*
Jinbin Hu, *Wenjun Lyu, Shaohua Zhong and Jiawei Huang**.
Electronics, 2020, 9(11), 1792.

(* stands for *Corresponding author.*)

Research Project

- **The National Natural Science Foundation of China**
Study on Transport Control in Data Center Lossless Network Based on Priority-based Flow Control, 2022.1.1-2024.12.31