

Canhui Chen (陈灿辉)

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EDUCATION

- **Master of Science in Computer Science, Tsinghua University (THU)** Beijing, China
Institute for Interdisciplinary Information Science (IIIS) Sep. 2021 – Present
- **B.S. Degree in Software Engineering, Sun Yat-Sen University (SYSU)** Guangzhou, China
School of Computer Science and Engineering (CSE); Ranking: 1/174 Sep. 2017 – July. 2021

PUBLICATION

1. **Canhui Chen** and Zhixuan Fang, “We-TIPS: Weak-Block-Based Transaction Inclusion Protocol with Signaling in DAG-based Blockchain,” *the 21th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt)*, August 2023. (Best Paper Candidate)
2. **Canhui Chen** and Zhixuan Fang, “Gacha Game Analysis and Design,” *Proceedings of ACM SIGMETRICS (SIGMETRICS)*, June 2023.
3. **Canhui Chen** and Zhixuan Fang, “Gacha Game Analysis and Design,” *Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS)* 7.1 (2023): 1-45. (Accepted directly through ACM SIGMETRICS)
4. **Canhui Chen***, Zerui Cheng*, Shutong Qu, Zhixuan Fang, “Crowdsourcing Work as Mining: A Decentralized Computation and Storage Paradigm,” *the 7th Asia-Pacific Workshop on Networking (APNet’23)*, June 2023, (Poster) (* denotes the equal contributions)
5. **Canhui Chen**, Xu Chen, Zhixuan Fang, “TIPS: Transaction Inclusion Protocol with Signaling in DAG-Based Blockchain,” *IEEE Journal on Selected Areas in Communications (JSAC)* 40.12 (2022): 3685-3701.
6. Jiayuan Liu*, **Canhui Chen***, Lulu Zhou, Zhixuan Fang, “Real-Time Recursive Routing in Payment Channel Network: A Bidding-based Design,” *Proceedings of the 20th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*. 2022. (* denotes the equal contributions)
7. **Canhui Chen**, Qian Ma, Xu Chen, Jianwei Huang, “User Distributions in Shard-based Blockchain Network: Queueing Modeling, Game Analysis, and Protocol Design,” *Proceedings of the Twenty-second International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc)*. 2021.
8. **Canhui Chen**, Xu Chen, Jiangshan Yu, Weigang Wu, Di Wu, “Impact of Temporary Fork on the Evolution of Mining Pools in Blockchain Network: A Modeling Analysis,” *IEEE Transactions on Network Science and Engineering (TNSE)*, 2020.
9. Jianzhen Xiao*, **Canhui Chen***, Yunong Zhang, “Continuous ZND (Zhang Neural Dynamics) Model for Generalized Sinkhorn Scaling of Time-Varying Matrix,” *IEEE 11th International Conference on Intelligent Control and Information Processing (ICICIP)*, 2021. (* denotes the equal contributions)
10. **Canhui Chen**, Yihong Ling, Deyang Zhang, Nini Shi, Yunong Zhang, “Noisy Zhang-Dynamics (ZD) Method for Genesio Chaotic (GC) System Synchronization: Elegant Analyses and Unequal-Parameter Extension,” *Proceedings of IEEE Symposium Series on Computational Intelligence (SSCI)*, 2019.

SELECTED AWARDS

- Li Xuerou Foundation Scholarship, 2020 (the only one in CSE in SYSU)
- China National Scholarship (top 2%), by Ministry of Education of China, 2020
- China National Scholarship (top 2%), by Ministry of Education of China, 2019

PROFESSIONAL ACTIVITIES

- Technical Reviewer
 - IEEE Journal on Selected Areas in Communications (JSAC)
 - Frontiers of Computer Science (FCS)
 - The 16th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2021)
- Teaching Assistant of Game Theory, Institute for Interdisciplinary Information Sciences(IIIS), Tsinghua