# Qin Hu

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## EDUCATION & PROFESSIONAL EXPERIENCES

**Indiana University-Purdue University Indianapolis** — **Indianapolis, IN**
*Assistant Professor of Computer Science* — *Until Now*

**The George Washington University** — **Washington, DC**
*Ph.D. in Computer Science* — *May 2019*

## RESEARCH INTERESTS

Security and privacy in wireless and mobile networks, blockchain, edge computing, federated learning, Internet of Things

## PUBLICATIONS

### Journal Papers

$**$ denotes the student under my supervision; $*$ denotes Corresponding Author.

1. Qin Hu, Feng Li, Xukai Zou, Yinhao Xiao, "Solving the Federated Edge Learning Participation Dilemma: A Truthful and Correlated Perspective", *IEEE Transactions on Vehicular Technology*, 2022, Vol. 71, No. 7, pp. 7680-7690. (**JCR Q1, IF: 6.8**)
2. Qin Hu, Shengling Wang, Zehui Xiong, Xiuzhen Cheng, "Nothing Wasted: Full Contribution Enforcement in Federated Edge Learning", *IEEE Transactions on Mobile Computing*, 2021. (**JCR Q1, IF: 7.9**)
3. Qin Hu, Zhilin Wang**, Minghui Xu, Xiuzhen Cheng, "Blockchain and Federated Edge Learning for Privacy-Preserving Mobile Crowdsensing", *IEEE Internet of Things Journal*, 2021. (**JCR Q1, IF: 10.6, ESI Highly Cited Paper**)
4. Qin Hu, Shengling Wang, Xiuzhen Cheng, Liran Ma, Rongfang Bie, "Solving the Crowdsourcing Dilemma Using the Zero-Determinant Strategies", *IEEE Transactions on Information Forensics and Security*, 2019, Vol. 15, pp. 1778-1789. (**JCR Q1, IF: 6.8**)
5. Qin Hu, Shengling Wang, Xiuzhen Cheng, Junshan Zhang, Weifeng Lv, "Cost-Efficient Mobile Crowdsensing with Spatial-Temporal Awareness", *IEEE Transactions on Mobile Computing*, 2019, Vol. 30, No. 3, pp. 928-938. (**JCR Q1, IF: 7.9**)
6. Qin Hu, Shengling Wang, Peizi Ma, Xiuzhen Cheng, Weifeng Lv, Rongfang Bie, "Quality Control in Crowdsourcing Using Sequential Zero-Determinant Strategies", *IEEE Transactions on Knowledge and Data Engineering*, 2019, Vol. 32, No. 5, pp. 998-1009. (**JCR Q1, IF: 8.9**)
7. Qin Hu, Shengling Wang, Chunqiang Hu, Jianhui Huang, Wei Li, Xiuzhen Cheng, "Messages in a Concealed Bottle: Achieving Query Content Privacy with Accurate Location-Based Services", *IEEE Transactions on Vehicular Technology*, 2018, Vol. 67, No. 8, pp. 7698-7711. (**JCR Q1, IF: 6.8**)
8. Zhilin Wang**, Qin Hu*, Zehui Xiong, Yuan Liu, Dusit Niyato, "Resource optimization for blockchain-based federated learning in mobile edge computing", *IEEE Internet of Things Journal*, 2023. (**JCR Q1, IF: 10.6**)
9. Jianan Chen**, Qin Hu*, Honglu Jiang, "Alliance Makes Difference? Maximizing Social Welfare in Cross-Silo Federated Learning", *IEEE Transactions on Vehicular Technology*, 2023. (**JCR Q1, IF: 6.8**)
10. Zhilin Wang**, Qin Hu*, Ruinian Li, Minghui Xu, Zehui Xiong, "Incentive Mechanism for Joint Resource Allocation in Blockchain-based Federated Learning", *IEEE Transactions on Parallel and Distributed Systems*, 2023. (**JCR Q1, IF: 5.3**)
11. Chen Wang, Qin Hu*, Dongxiao Yu, Xiuzhen Cheng, "Online Learning for Failure-aware Edge Backup of Service Function Chains with the Minimum Latency", *IEEE/ACM Transactions on Networking*, 2023. (**JCR Q1, IF: 3.7**)
12. Cheng Peng**, Qin Hu*, Zhilin Wang, Ryan Wen Liu, Zehui Xiong, "Online Learning based Fast-Convergent

and Energy-Efficient Device Selection in Federated Edge Learning", *IEEE Internet of Things Journal*, March 15, 2023, Vol. 10, No. 6, pp. 5571-5582. (**JCR Q1, IF: 10.6**)

13. Yinhao Xiao, Yizhen Jia, Qin Hu*, Xiuzhen Cheng, Bei Gong, Jiguo Yu. "CommandFence: A Novel Digital-Twin-Based Preventive Framework for Securing Smart Home Systems", *IEEE Transactions on Dependable and Secure Computing*, 2022. (**JCR Q1, IF: 7.3**)
14. Valli Sanghami Shankar Kumar**, John J. Lee, Qin Hu*, "Machine Learning Enhanced Blockchain Consensus with Transaction Prioritization for Smart Cities", *IEEE Internet of Things Journal*, 2022. (**JCR Q1, IF: 10.6**)
15. Yuhao Bai**, Qin Hu*, Seung-Hyun Seo, Kyubyung Kang, John Lee, "Public Participation Consortium Blockchain for Smart City Governance", *IEEE Internet of Things Journal*, 2021. (**JCR Q1, IF: 10.6**)
16. Zhilin Wang**, Qin Hu*, Yawei Wang, Yinhao Xiao. "Transaction Pricing Mechanism Design and Assessment for Blockchain", *High-Confidence Computing*, 2021.
17. Chunchi Liu, Yinhao Xiao, Vishesh Javangula, Qin Hu*, Shengling Wang, Xiuzhen Cheng, "NormaChain: A Blockchain-based Normalized Autonomous Transaction Settlement System for IoT-based E-commerce", *IEEE Internet of Things Journal*, 2018, Vol. 6, No. 3, pp. 4680-4693. (**JCR Q1, IF: 10.6**)
18. Jianan Chen**, Qin Hu, Honglu Jiang, "Strategic Signaling for Utility Control in Audit Games", *Computers & Security*, 2022. (**JCR Q1, IF: 5.6**)
19. Hongwei Shi, Shengling Wang, Qin Hu, Xiuzhen Cheng , "Black Swan in Blockchain: Micro Analysis of Natural Forking", *IEEE Transactions on Dependable and Secure Computing*, 2022. (**JCR Q1, IF: 7.3**)
20. Minghui Xu, Zongrui Zou, Ye Cheng, Qin Hu, Dongxiao Yu, Xiuzhen Cheng, "SPDL: Blockchain-secured and Privacy-preserving Decentralized Learning", *IEEE Transactions on Computers*, 2022. (**JCR Q1, IF: 3.7**)
21. Shengling Wang, Hongwei Shi, Qin Hu, Bin Lin, Xiuzhen Cheng, "Moving Target Defense for Internet of Things Based on the Zero-Determinant Theory", *IEEE Internet of Things Journal*, 2019. (**JCR Q1, IF: 10.6**)
22. Shengling Wang, Qin Hu, Yunchuan Sun, Jianhui Huang, "Privacy Preservation in Location-Based Services", *IEEE Communications Magazine*, 2018, Vol. 56, No. 3, pp. 134-140. (**JCR Q1, IF: 11.2**)
23. Hongwei Shi, Shengling Wang, Qin Hu, Xiuzhen Cheng, Junshan Zhang, Jiguo Yu. "Fee-free pooled mining for countering pool-hopping attack in blockchain", *IEEE Transactions on Dependable and Secure Computing*, 2020, Vol. 18, No. 4, pp. 1580-1590. (**JCR Q1, IF: 7.3**)
24. Xidi Qu, Qin Hu, Shengling Wang, "Privacy-Preserving Model Training Architecture for Intelligent Edge Computing", *Computer Communications*, 2020, Vol. 162, pp. 94-101. (**JCR Q1, IF: 6**)
25. Minghui Xu, Shengling Wang, Qin Hu, Hao Sheng, Xiuzhen Cheng. "Quantum Analysis on Task Allocation and Quality Control for Crowdsourcing with Homogeneous Workers", *IEEE Transactions on Network Science and Engineering*, 2020. (**JCR Q1, IF: 6.6**)
26. Di Yao, Chao Zhang, Zhihua Zhu, Qin Hu, Zheng Wang, Jianhui Huang, Jingping Bi, "Learning Deep Representation for Trajectory Clustering", *Expert Systems*, 2018, Vol. 35, No. 2, pp. e12252.
27. Kun Li, Shengling Wang, Xiuzhen Cheng, Qin Hu, "A Misreport- and Collusion- Proof Crowdsourcing Mechanism without Quality Verification", *IEEE Transactions on Mobile Computing*, 2021. (**JCR Q1, IF: 7.9**)
28. Xidi Qu, Shengling Wang, Qin Hu, Xiuzhen Cheng, "Proof of Federated Learning: A Novel Energy-recycling Consensus Algorithm", *IEEE Transactions on Parallel and Distributed Systems*, 2021. (**JCR Q1, IF: 5.3**)
29. Shengling Wang, Lina Shi, Qin Hu, Junshan Zhang, Xiuzhen Cheng, Jiguo Yu, "Privacy-aware Data Trading", *IEEE Transactions on Information Forensics and Security*, 2021. (**JCR Q1, IF: 6.8**)
30. Ryan Wen Liu, Yu Guo, Jiangtian Nie, Qin Hu, Zehui Xiong, Han Yu, Mohsen Guizani, "Intelligent Edge-Enabled Efficient Multi-Source Data Fusion for Autonomous Surface Vehicles in Maritime Internet of Things", *IEEE Transactions on Green Communications and Networking*, 2022. (**JCR Q1, IF: 4.8**)
31. Yuan Liu, Zehui Xiong, Qin Hu, Dusit Niyato, Jie Zhang, Chunyan Miao, Cyril Leung, Zhihong Tian, "VRepChain: A Decentralized and Privacy-preserving Reputation System for Social Internet of Vehicles Based on Blockchain", *IEEE Transactions on Vehicular Technology*, 2022. (**JCR Q1, IF: 6.8**)
32. Minghui Xu, Yihao Guo, Qin Hu, Zehui Xiong, Dongxiao Yu, Xiuzhen Cheng, "A Trustless Architecture of Blockchain-enabled Metaverse", *High-Confidence Computing*, 2022, p.100088.
33. Shengling Wang, Xidi Qu, Qin Hu, Xia Wang, Xiuzhen Cheng, "An Uncertainty- and Collusion-Proof Voting Consensus Mechanism in Blockchain", *IEEE/ACM Transactions on Networking*, 2023. (**JCR Q1, IF: 3.7**)
34. Shengling Wang, Lina Shi, Hongwei Shi, Yifang Zhang, Qin Hu, Xiuzhen Cheng, "Proof of User Similarity: the Spatial Measurer of Blockchain", *IEEE Transactions on Services Computing*, 2023. (**JCR Q1, IF: 8.1**)

35. Ye Cheng, Yihao Guo, Minghui Xu, Qin Hu, Dongxiao Yu, Xiuzhen Cheng, "An Adaptive and Modular Blockchain Enabled Architecture for a Decentralized Metaverse", *IEEE Journal on Selected Areas in Communications*, 2023. (**JCR Q1, IF: 16.4**)
36. Minghui Xu, Yihao Guo, Chunchi Liu, Qin Hu, Dongxiao Yu, Zehui Xiong, Dusit Niyato, Xiuzhen Cheng, "Exploring Blockchain Technology through a Modular Lens: A Survey", *ACM Computing Surveys*, 2024.

**Conference Papers**

$**$ denotes the student under my supervision; $*$ denotes Corresponding Author.

1. Qin Hu, Shengling Wang, Xiuzhen Cheng, "A Game Theoretic Analysis of Block Withholding Attack Using the Zero-Determinant Strategy", *IEEE/ACM 27th International Symposium on Quality of Service*, (*IWQoS*), 2019, p. 41.
2. Qin Hu, Shengling Wang, Liran Ma, Rongfang Bie, Xiuzhen Cheng, "Anti-Malicious Crowdsourcing Using the Zero-Determinant Strategy", *IEEE International Conference on Distributed Computing Systems* (*ICDCS*), 2017, pp. 1137-1146.
3. Shengling Wang, Chenyu Wang, Qin Hu$^*$, "Corking by Forking: Vulnerability Analysis of Blockchain", *IEEE International Conference on Computer Communications* (*INFOCOM*), 2019, pp. 829-837.
4. Chen Wang, Qin Hu$^*$, Dongxiao Yu, Xiuzhen Cheng, "Proactive Deployment of Chain-based VNF Backup at the Edge using Online Bandit Learning", *IEEE International Conference on Distributed Computing Systems* (*ICDCS*), 2021, pp. 740-750.
5. Qin Hu, Minghui Xu, Shengling Wang, Shaoyong Guo, "Sync or Fork: Node-Level Synchronization Analysis of Blockchain", *International Conference on Wireless Algorithms, Systems, and Applications* (*WASA*), 2020, pp. 170-181. (**Best Paper Award**)
6. Qin Hu, Feng Li, Xukai Zou, Yinhao Xiao, "Correlated Participation Decision Making for Federated Edge Learning", *IEEE Global Communications Conference* (*GLOBECOM*), 2020.
7. Qin Hu, Yash Nigam, Zhilin Wang, Yawei Wang, Yinhao Xiao, "A Correlated Equilibrium based Transaction Pricing Mechanism in Blockchain", *IEEE International Conference on Blockchain and Cryptocurrency* (*ICBC*), 2020.
8. Zhilin Wang$^{**}$, Qin Hu$^*$, Minghui Xu, Honglu Jiang, "Blockchain-based Edge Resource Sharing for Metaverse", *IEEE 19th International Conference on Mobile Ad Hoc and Smart Systems* (*MASS*), 2022.
9. Zhilin Wang$^{**}$, Qiao Kang, Xinyi Zhang, Qin Hu$^*$, "Defense Strategies Toward Model Poisoning Attacks in Federated Learning: A Survey", *2022 IEEE Wireless Communications and Networking Conference* (*WCNC*), 2022: 548-553.
10. Jianan Chen$^{**}$, Qin Hu$^*$, Honglu Jiang, "Social Welfare Maximization in Cross-Silo Federated Learning", *IEEE International Conference on Acoustics, Speech and Signal Processing* (*ICASSP*), 2022.
11. Cheng Peng$^{**}$, Qin Hu$^*$, Jianan Chen, Kyubyung Kang, Feng Li, Xukai Zou, "Energy-Efficient Device Selection in Federated Edge Learning", *The 30th International Conference on Computer Communications and Networks* (*ICCCN*), 2021.
12. Valli Sanghami Shankar Kumar$^{**}$, John J. Lee, Qin Hu$^*$, "INDF: Efficient Transaction Publishing in Blockchain", *IEEE International Conference on Communications* (*ICC*), 2021.
13. Yi Qin, Qin Hu$^*$, Dongxiao Yu, Xiuzhen Cheng, "Malice-aware Transaction Forwarding in Payment Channel Networks", *IEEE 18th International Conference on Mobile Ad Hoc and Smart Systems* (*MASS*), 2021, pp. 297-305. (**Best Paper Award Runner-up**)
14. Qin Hu, Shengling Wang, Liran Ma, Xiuzhen Cheng, Rongfang Bie, "Solving the Crowdsourcing Dilemma Using the Zero-Determinant Strategy: Poster", *ACM International Symposium on Mobile Ad Hoc Networking and Computing* (*MobiHoc*), 2016, pp. 373-374.
15. Jianhui Huang, Qin Hu$^*$, Jingping Bi, Zhongcheng Li, "Stackelberg Game Based Incentive Mechanism for Data Transmission in Mobile Opportunistic Networks", *International Conference on Wireless Algorithms, Systems, and Applications* (*WASA*), 2016, pp. 377-388.
16. Qin Hu, Shengling Wang, Rongfang Bie, Xiuzhen Cheng, "Low Price to Win: Interactive Scheme in Cooperative Cognitive Radio Networks", *IEEE International Conference on Communications* (*ICC*), 2015, pp. 7546-7551.
17. Mustafa Abdallah, Qin Hu, "Should I Regret More? A Regret-based Multi-round Learning with Behavioral Human Players in a Multi-Target Security Game", *2023 European Control Conference* (*ECC*), 2023, pp. 1-6.
18. Wenxuan Yu, Minghui Xu, Dongxiao Yu, Xiuzhen Cheng, Qin Hu, Zehui Xiong, "zk-PCN: A Privacy-Preserving Payment Channel Network Using zk-SNARKs", *IEEE International Performance, Computing, and*

*Communications Conference* (*IPCCC*), 2022.

19. Xumin Huang, Weifeng Zhong, Jiangtian Nie, Qin Hu, Zehui Xiong, Jiawen Kang, Tony QS Quek, "Joint User Association and Resource Pricing for Metaverse: Distributed and Centralized Approaches", *IEEE 19th International Conference on Mobile Ad Hoc and Smart Systems* (*MASS*), 2022.
20. Wei Yang Bryan Lim, Jer Shyuan Ng, Jiangtian Nie, Qin Hu, Zehui Xiong, Dusit Niyato, Chunyan Miao, "Evolutionary Model Owner Selection for Federated Learning with Heterogeneous Privacy Budgets", *IEEE International Conference on Communications* (*ICC*), 2022.
21. Agnideven Palanisamy Sundar, Feng Li, Xukai Zou, Qin Hu, Tianchong Gao, "Multi-Armed-Bandit-based Shilling Attack on Collaborative Filtering Recommender Systems ", *IEEE 17th International Conference on Mobile Ad Hoc and Sensor Systems* (*MASS*), 2020.
22. Cheng Zhang, Honglu Jiang, Yawei Wang, Qin Hu, Jiguo Yu, Xiuzhen Cheng, "User Identity De-anonymization Based on Attributes", *International Conference on Wireless Algorithms, Systems, and Applications* (*WASA*), 2019, pp. 458-469.

## GRANTS & FUNDING

1. NSF CRII, PI: "CRII: CNS: Blockchain-based Distributed Machine Learning for Mobile Crowd Sensing", $174,823, 07/01/2021 - 05/31/2024.
2. IUPUI iAI seed funding, PI (Co-PI: Ming Jiang): "Securing the privacy of using large language models", $25,000, 08/01/2023 - 07/31/2024.
3. IUPUI Release Time for Research, PI: "Blockchain-based Hierarchical Federated Learning: A Security-efficiency Co-design Perspective", $10,000, Summer 2023.
4. IUPUI EMPOWER program, PI: "Consensus Security in Blockchain", $10,000, 02/01/2020 - 12/31/2021.
5. IUPUI iAI seed funding, Co-PI (PI: Subir K. Chakrabarti): "Stochastic Games, AI and Cybersecurity", $20,000, 01/15/2021 - 01/14/2022.
6. South Korea IITP, Co-PI (PI: Kyubyung Kang): "Development of Citizen Participatory Platform for Smart City Infrastructure Operation and Maintenance using Blockchain Technology", $51,508, 06/01/2020 - 05/31/2021.

## PRESENTATIONS & SEMINARS

**Invited Talks**

1. "Enhancing Security and Efficiency of Blockchain", Apr 22, 2021, School of Science Spring Faculty Homecoming Event, IUPUI, Virtual
2. "Toward Security and Efficiency in Blockchain Systems", Mar 10, 2021, Beijing Normal University, Virtual
3. "Enhancing Crowdsourcing with the Zero-Determinant Game Theory", Feb 23, 2019, Workshop of Socialized Cognitive Radio Networks, Georgia State University, Atlanta, Georgia, USA
4. "Solving the Crowdsourcing Dilemma Using the Zero-Determinant Strategy", May 23, 2017, College of Information Science and Technology, Beijing Normal University, Beijing, China

**Conference Presentations**

1. "Correlated Participation Decision Making for Federated Edge Learning", Dec 8, 2020, Globecom 2020, Virtual
2. "Sync or Fork: Node-Level Synchronization Analysis of Blockchain", Sep 13, 2020, WASA 2020, Virtual
3. "A Correlated Equilibrium based Transaction Pricing Mechanism in Blockchain", May 2, 2020, ICBC 2020, Virtual
4. "A Game Theoretic Analysis on Block Withholding Attacks Using the Zero-Determinant Strategy", June 25, 2019, IWQoS 2019, Phoenix, Arizona, USA
5. "Anti-Malicious Crowdsourcing Using the Zero-Determinant Strategy", June 8, 2017, ICDCS 2017, Atlanta, Georgia, USA
6. "Low Price to Win: Interactive Scheme in Cooperative Cognitive Radio Networks", June 10, 2015, ICC 2015, London, UK

## TEACHING EXPERIENCES

**Instructor**
- Principles of Computer Networking, CSCI43600/ECE46300, Fall 2022/2023
- Explorations Applied Computing, CSCI 49500, Spring 2020-2023
- Wireless and Mobile Security, CSCI 59000, Fall 2019-2021, Spring 2023
- Wireless Network Security, CSCI 49000, Summer 2020

## AWARDS

**Indiana University Trustees Teaching Award**, Indiana University Indianapolis, 2024
**IEEE Outstanding Leadership Award**, as Publicity Chair of the 20th IEEE International Conference on Embedded and Ubiquitous Computing, 2022
**Best Paper Award Runner-up**, IEEE 18th International Conference on Mobile Ad Hoc and Smart Systems (MASS), 2021
**Best Paper Award**, International Conference on Wireless Algorithms, Systems, and Applications (WASA), 2020

## STUDENT MENTORING

**PhD students:** Jianan Chen (Fall 2020-), Zhilin Wang (Spring 2021-), Valli Sanghami Shankar Kumar (co-advise) (Fall 2020-)
**Master students:** Yohan Mahajan (Fall 2019-Spring 2021), Cheng Peng (Spring 2020-Fall 2022, thesis-based), Shengyang Li (Fall 2021-Spring 2022)
**Undergraduate students:** Yash Nigam (Fall 2019-Spring 2020), Anastacio Salvaje Meza (Summer 2020), Xinyi Zhang (Summer 2021, from PUWL), Simeon Dunn (Summer 2021, IN LSAMP), Samuel Beraki Sibhatu (Summer 2022, IN LSAMP), Richard Ekwenibe (Summer 2022, IN LSAMP)
**PhD dissertation committee:** Zhilin Wang (chair, Fall 2023-), Agnideven Palanisamy Sundar (member, Spring 2023-), Davinder Kaur (member, Fall 2022-Fall 2023), Suleyman Uslu (member, Fall 2022-Fall 2023), Valli Sanghami Shankar Kumar (member, Fall 2022-)
**Master thesis committee:** Agnideven Palanisamy Sundar (member, Summer 2022), Nathan Swearingen (member, Spring 2022)

## PROFESSIONAL SERVICES

**Editor:** ELSEVIER Journal of Network and Computer Applications, ELSEVIER High-Confidence Computing
**Guest Editor:** IEEE Transactions on Consumer Electronics SI on Opportunities and Challenges for Consumer Electronics and Metaverse Integration, IEEE Transactions on Network Science and Engineering SI on Advanced Networking Technologies for Web 3.0, EURASIP Journal on Wireless Communications and Networking SI on Blockchain for Wireless Networking, ELSEVIER Computer Communications SI on Wireless Communication-based Solutions for Combating COVID-19 From the Game Theory Viewpoint, ELSEVIER High-Confidence Computing SI on Architectures, Algorithms, and Applications for High-Confidence IoT, Wireless Communications and Mobile Computing SI on Advances of Intelligent Sensory Data Processing and Protection in IoT
**TPC Co-Chair:** IEEE HPCC 2021 Workshop on Artificial Intelligence Empowered Efficient and Secure 6G Networking and Communications, IEEE ICC 2022 2nd Workshop on Scalable, Secure and Intelligent Blockchain for Future Networking and Communications, The 2023 IEEE 98th Vehicular Technology Conference in the track of Wireless Networks: Protocols, Security and Services
**Publicity Co-Chair:** IEEE International Conference on Embedded and Ubiquitous Computing (EUC) 2022, International Conference on Computational Data and Social Networks (CSoNet) 2022, IEEE WCNC 2022 2nd Workshop on Machine Learning for Communications: Distributed Machine Learning for Future Communications and Networking, IEEE Blockchain 2019 Symposium
**Program Committee Member:** FL-IJCAI 2023, IEEE IPCCC 2023, ICNC 2024, IEEE MetaCom 2023, IEEE INFOCOM 2022-2024, IEEE WCNC 2022, IEEE MASS 2022/2023, IEEE Blockchain 2019-2023, IEEE Globecom 2019-2023, IEEE ICCCN 2020/2021, IEEE Comnetsat 2020, SocialSens 2021

**Panel Reviewer:** National Science Foundation (NSF) Computer and Network Systems (CNS)
**Reviewer of Journals:** IEEE Wireless Communications Magazine, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Mobile Computing, IEEE Internet of Things Journal, IEEE Transactions on Computers, IEEE/ACM Transactions on Networking, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, Computer Communications, IEEE Internet Computing, CCF Transactions on Networking, PLOS ONE, Sensors, Electronics, Wireless Communications and Mobile Computing, IEEE Access, Journal of Systems Architecture, Computers & Security, ELSEVIER Journal of Parallel and Distributed Computing