

Song Guo

PUBLICATIONS

A. Books

1. Deze Zeng, Lin Gu, Shengli Pan, and Song Guo, *Software Defined Systems: Sensing, Communication and Computation*, SpringerBriefs in Computer Science, 1st ed. 2020 edition (December 31, 2019), ISBN-13: 978-3030329419.
2. Song Guo and Deze Zeng (Eds.), *Cyber-Physical Systems: Architecture, Security and Application*, Book Series of EAI/Springer Innovations in Communication and Computing, 2019.
3. Song Guo, Guiyi Wei, Yang Xiang, Xiaodong Lin, and Psacal Lorenz (Eds.), *Testbeds and Research Infrastructures for the Development of Networks and Communities*, TridentCom 2016, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Volume 177, 2017.
4. Shui Yu and Song Guo (Eds.), *Big Data Concepts, Theories, and Applications*, Springer 2016, ISBN 978-3-319-27761-5.
5. Lin Gu, Deze Zeng, and Song Guo, *Cloud Networking for Big Data*, Springer 2015, ISBN 978-3-319-24718-2.
6. Peng Li and Song Guo, *Cooperative Device-to-Device Communication in Cognitive Radio Cellular Networks*, Springer 2014, ISSN 2191-5768.
7. Song Guo and Xiaofei Liao (Eds.), *Collaborative Computing: Networking, Applications, and Worksharing*, CollaborateCom 2015 Proceedings, Springer 2015.
8. Song Guo, Jaime Lloret, Pietro Manzoni, and Stefan Ruehrup (Eds.), *Ad-hoc, Mobile, and Wireless Networks*, ADHOC-NOW 2014 Proceedings, Lecture Notes in Computer Science Volume 8487, 2014.
9. Ivan Stojmenovic, Zixue Cheng, and Song Guo (Eds.), *Mobile and Ubiquitous Systems: Computing, Networking, and Services*, MobiQuitous 2013, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering Volume 131, 2013.
10. Song Guo (Ed.), *Advanced Wireless LAN*, ISBN: 978-953-51-0645-6, InTech, 2012.

B. Refereed Journal Papers

1. Xin Xie, Xiulong Liu, Heng Qi, Song Guo, and Keqiu Li, "A Tag-correlation-based Approach to Fast Identification of Group Tags", *IEEE Transactions on Mobile Computing*, accepted.
2. Zhaolong Ning, Peiran Dong, Xiaojie Wang, Xiping Hu, Song Guo, Tie Qiu, Bin Hu, Lei Guo, and Ricky Y. K. Kwok, "Distributed and Dynamic Service Placement in Pervasive Edge Computing Networks", *IEEE Transactions on Parallel and Distributed Computing*, DOI: 10.1109/TPDS.2020.3046000.
3. Huawei Huang, Wei Kong, Sicong Zhou, Zibin Zheng, and Song Guo, "A Survey of State-of-the-Art on Blockchains: Theories, Modelings, and Tools", *ACM Computing Surveys*, accepted.
4. Yu Ma, Weifa Liang, Meitian Huang, Wenzheng Xu, and Song Guo, "Virtual Network Function Service Provisioning in MEC via Trading Off the Usages between Computing and Communication Resources", *IEEE Transactions on Cloud Computing*, DOI: 10.1109/TCC.2020.3043313.
5. Haozhao Wang, Zhihao Qu, Song Guo, Xin Gao, Ruixuan Li, and Baoliu Ye, "Intermittent Pulling with Local Compensation for Communication-Efficient Distributed Learning", *IEEE Transactions on Emerging Topics in Computing*, DOI: 10.1109/TETC.2020.3043300.

6. Xiao Liu, Zaiyang Tang, Peng Li, Song Guo, Xuepeng Fan, and Jinbo Zhang, "A Graph Learning based Approach for Identity Inference in DApp Platform Blockchain", *IEEE Transactions on Emerging Topics in Computing*, DOI: 10.1109/TETC.2020.3027309.
7. Jinlong Sun, Fan Liu, Yuzhi Zhou, Guan Gui, Tomoaki Ohtsuki, Song Guo, and Fumiyuki Adachi, "Surveillance Plane Aided Air-Ground Integrated Vehicular Networks: Architectures, Applications, and Potential", *IEEE Wireless Communications*, DOI: 10.1109/MWC.001.2000079.
8. Xuan Liu, Zhong Xi, Juan Luo, Shigeng Zhang, and Song Guo, "Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems", *IEEE Internet of Things Journal*, DOI: 10.1109/JIOT.2020.3015943.
9. Qi Qi, Runye Shen, Jingyu Wang, Haifeng Sun, Song Guo, and Jianxin Liao, "Spatial-Temporal Learning Based Artificial Intelligence for IT Operations in Edge Network", *IEEE Network Magazine*, accepted.
10. Xiaojie Wang, Zhaolong Ning, Song Guo, and Lei Wang, "Imitation Learning Enabled Task Scheduling for Online Vehicular Edge Computing", *IEEE Transactions on Mobile Computing*, DOI: 10.1109/TMC.2020.3012509.
11. Yu Ma, Weifa Liang, Jing Li, Xiaohua Jia, and Song Guo, "Mobility-Aware and Delay-Sensitive Service Provisioning in Mobile Edge-Cloud Networks", *IEEE Transactions on Mobile Computing*, DOI: 10.1109/TMC.2020.3006507.
12. Chao Fang, Changtong Liu, Zhuwei Wang, Yang Sun, Wei Ni, Peng Li, and Song Guo, "Cache-Assisted Content Delivery in Wireless Networks: A New Game Theoretic Model", *IEEE Systems Journal*, DOI: 10.1109/JSYST.2020.3001229.
13. Haipeng Yao, Chao Qiu, Xiaofei Wang, Haipeng Yao, Jianbo Du, Richard F. Yu, and Song Guo, "Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Learning Approach", *IEEE Internet of Things Journal*, DOI: 10.1109/JIOT.2020.3007650.
14. Shigeng Zhang, Xuan Liu, Yangyang Liu, Bo Ding, Song Guo, and Jianxin Wang, "Accurate Respiration Monitoring for Mobile Users with Commercial RFID Devices", *IEEE Journal on Selected Areas in Communications*, DOI: 10.1109/JSAC.2020.3020604.
15. Sahil Garg, Kuljeet Kaur, Georges Kaddoum, and Song Guo, "SDN-NFV Aided Edge-Cloud Interplay for 5G-Envisioned Energy Internet Ecosystem", *IEEE Network Magazine*, accepted.
16. Jingcai Guo and Song Guo, "A Novel Perspective to Zero-shot Learning: Towards an Alignment of Manifold Structures via Semantic Feature Expansion", *IEEE Transactions on Multimedia*, DOI: 10.1109/TMM.2020.2984091.
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18. Chao Qiu, Haipeng Yao, Chunxiao Jiang, Song Guo, and Fangmin Xu, "Cloud Computing Assisted Blockchain-Enabled Internet of Things", *IEEE Transactions on Cloud Computing*, DOI: 10.1109/TCC.2019.2930259.
19. Meitian Huang, Weifa Liang, Yu Ma, and Song Guo, "Maximizing Throughput of Delay-Sensitive NFV-Enabled Request Admissions via Virtualized Network Function Placement", *IEEE Transactions on Cloud Computing*, DOI: 10.1109/TCC.2019.2915835.
20. Haipeng Yao, Bo Zhang, Peiyong Zhang, Sheng Wu, Chunxiao Jiang, and Song Guo, "RDAM: A Reinforcement Learning Based Dynamic Attribute Matrix Representation for Virtual Network Embedding", *IEEE Transactions on Emerging Topics in Computing*, DOI: 10.1109/TETC.2018.2871549.

21. Jiahui Yu, Kun Wang, Peng Li, and Song Guo, "Efficient Trustworthiness Management for Malicious User Detection in Big Data Collection", *IEEE Transactions on Big Data*, DOI: 10.1109/TBDATA.2017.2761386.
22. Kun Wang, Jiahui Yu, Xiulong, Liu, Song Guo, "A Pre-Authentication Approach to Proxy Re-encryption in Big Data Context", *IEEE Transactions on Big Data*, DOI: 10.1109/TBDATA.2017.2702176.
23. Xiaofei Luo, Huawei Huang, Peng Li, and Song Guo, "Cost-Efficient Service Provisioning for Mobile Applications in Cloudlet Networks", *Journal of Sustainability*, accepted.
24. Qihua Zhou, Song Guo, Zhihao Qu, Peng Li, Li Li, Minyi Guo, and Kun Wang, "Petrel: Heterogeneity-aware Distributed Deep Learning via Hybrid Synchronization", *IEEE Transactions on Parallel and Distributed Computing*, vol. 32, no. 5, May 2021, pp. 1030-1043.
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26. Xiaojie Wang, Zhaolong Ning, and Song Guo, "Multi-agent Imitation Learning for Pervasive Edge Computing: A Decentralized Computation Offloading Algorithm", *IEEE Transactions on Parallel and Distributed Computing*, vol. 32, no. 2, February 2021, pp. 411-425.
27. Qihua Zhou, Song Guo, Haodong Lu, Li Li, Minyi Guo, Yanfei Sun and Kun Wang, "Falcon: Addressing Stragglers in Heterogeneous Parameter Server via Multiple Parallelism", *IEEE Transactions on Computers*, vol. 70, no. 1, January 2021, pp. 139-155.
28. Huawei Huang, Song Guo, Weifa Liang, Kun Wang, and Yasuo Okabe, "Coflow-like Online Data Acquisition from Low-Earth-Orbit Datacenters", *IEEE Transactions on Mobile Computing*, vol. 19, no. 12, December 2020, pp. 2743-2760.
29. Song Guo, Deze Zeng, and Shifu Dong, "Pedagogical Data Analysis via Federated Learning Toward Education 4.0", *American Journal of Education and Information Technology*, vol. 4, no. 2, December 2020, pp. 56-65.
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36. Shiheng Ma, Song Guo, Kun Wang, Weijia Jia, and Minyi Guo, "A Cyclic Game for Service-Oriented Resource Allocation in Edge Computing", *IEEE Transactions on Services Computing*, vol. 13, no. 4, July/August 2020, pp. 723-734.
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