# Shigeng Zhang

List of Publications by Year
in descending order

| 80 | 1,565 | 361413 | 345221 |
|---|---|---|---|
| papers | citations | 20 | 36 |
|  |  | h-index | g-index |

| 80 | 80 | 80 | 1528 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Receive Only Necessary: Efficient Tag Category Identification in Large-Scale RFID Systems. IEEE Transactions on Mobile Computing, 2023, 22, 1157-1169. | 5.8 | 1 |
| 2 | Time Efficient Tag Searching in Large-Scale RFID Systems: A Compact Exclusive Validation Method. IEEE Transactions on Mobile Computing, 2022, 21, 1476-1491. | 5.8 | 14 |
| 3 | Detecting Adversarial Samples for Deep Learning Models: A Comparative Study. IEEE Transactions on Network Science and Engineering, 2022, 9, 231-244. | 6.4 | 8 |
| 4 | An Adaptive Task Migration Scheduling Approach for Edge-Cloud Collaborative Inference. Wireless Communications and Mobile Computing, 2022, 2022, 1-12. | 1.2 | 3 |
| 5 | Efficient and accurate identification of missing tags for large-scale dynamic RFID systems. Journal of Systems Architecture, 2022, 124, 102394. | 4.3 | 7 |
| 6 | An optimal deployment scheme for extremely fast charging stations. Peer-to-Peer Networking and Applications, 2022, 15, 1486-1504. | 3.9 | 2 |
| 7 | More Than Scheduling: Novel and Efficient Coordination Algorithms for Multiple readers in RFID Systems. IEEE Transactions on Mobile Computing, 2022, , 1-1. | 5.8 | 1 |
| 8 | FGL_Droid: An Efficient Android Malware Detection Method Based on Hybrid Analysis. Security and Communication Networks, 2022, 2022, 1-11. | 1.5 | 6 |
| 9 | Encoding-based Range Detection in Commodity RFID Systems. , 2022, , . | | 1 |
| 10 | Time-Efficient Target Tags Information Collection in Large-Scale RFID Systems. IEEE Transactions on Mobile Computing, 2021, 20, 2891-2905. | 5.8 | 26 |
| 11 | Accurate Respiration Monitoring for Mobile Users With Commercial RFID Devices. IEEE Journal on Selected Areas in Communications, 2021, 39, 513-525. | 14.0 | 34 |
| 12 | Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems. IEEE Internet of Things Journal, 2021, 8, 1651-1661. | 8.7 | 12 |
| 13 | An Exploit Kits Detection Approach Based on HTTP Message Graph. IEEE Transactions on Information Forensics and Security, 2021, 16, 3387-3400. | 6.9 | 4 |
| 14 | RF-Ubia: User Biometric Information Authentication Based on RFID. Lecture Notes in Computer Science, 2021, , 135-146. | 1.3 | 0 |
| 15 | Learning to Transfer Under Unknown Noisy Environments: An Universal Weakly-Supervised Domain Adaptation Method. , 2021, , . | | 2 |
| 16 | Securing middlebox policy enforcement in SDN. Computer Networks, 2021, 193, 108099. | 5.1 | 3 |
| 17 | Expandable Fractional Repetition Codes for Distributed Storage Systems. , 2021, , . | | 0 |
| 18 | IoT-IE: An Information-Entropy-Based Approach to Traffic Anomaly Detection in Internet of Things. Security and Communication Networks, 2021, 2021, 1-13. | 1.5 | 3 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | LSCDroid: Malware Detection Based on Local Sensitive API Invocation Sequences. IEEE Transactions on Reliability, 2020, 69, 174-187. | 4.6 | 20 |
| 20 | A Cloudâ€"MEC Collaborative Task Offloading Scheme With Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 5792-5805. | 8.7 | 103 |
| 21 | Accurate human activity recognition with multi-task learning. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 288-298. | 2.6 | 6 |
| 22 | RLLL: Accurate Relative Localization of RFID Tags with Low Latency. , 2020, , . | | 6 |
| 23 | When Sharing Economy Meets IoT. , 2020, 4, 1-26. | | 26 |
| 24 | Towards Real-time Cooperative Deep Inference over the Cloud and Edge End Devices. , 2020, 4, 1-24. | | 28 |
| 25 | RPAD: An Unsupervised HTTP Request Parameter Anomaly Detection Method. , 2020, , . | | 2 |
| 26 | WSAD: An Unsupervised Web Session Anomaly Detection Method. , 2020, , . | | 1 |
| 27 | Real-time and Accurate RFID Tag Localization based on Multiple Feature Fusion. , 2020, , . | | 2 |
| 28 | Accurate IoT Device Identification from Merely Packet Length. , 2020, , . | | 1 |
| 29 | Why queue up?. , 2020, , . | | 6 |
| 30 | Range-Based Localization for Sparse 3-D Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 753-764. | 8.7 | 60 |
| 31 | BridgeTaint: A Bi-Directional Dynamic Taint Tracking Method for JavaScript Bridges in Android Hybrid Applications. IEEE Transactions on Information Forensics and Security, 2019, 14, 677-692. | 6.9 | 9 |
| 32 | Vital Signs Monitoring with RFID: Opportunities and Challenges. IEEE Network, 2019, 33, 126-132. | 6.9 | 34 |
| 33 | PDRCNN: Precise Phishing Detection with Recurrent Convolutional Neural Networks. Security and Communication Networks, 2019, 2019, 1-15. | 1.5 | 50 |
| 34 | ReActor: Real-time and Accurate Contactless Gesture Recognition with RFID. , 2019, , . | | 18 |
| 35 | Enabling Adaptive Intelligence in Cloud-Augmented Multiple Robots Systems. , 2019, , . | | 2 |
| 36 | Page-sharing-based virtual machine packing with multi-resource constraints to reduce network traffic in migration for clouds. Future Generation Computer Systems, 2019, 96, 462-471. | 7.5 | 20 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Nothing Blocks Me: Precise and Real-Time LOS/NLOS Path Recognition in RFID Systems. IEEE Internet of Things Journal, 2019, 6, 5814-5824. | 8.7 | 19 |
| 38 | An Energy-Aware Offloading Framework for Edge-Augmented Mobile RFID Systems. IEEE Internet of Things Journal, 2019, 6, 3994-4004. | 8.7 | 40 |
| 39 | Characterizing the Capability of Vehicular Fog Computing in Large-scale Urban Environment. Mobile Networks and Applications, 2018, 23, 1050-1067. | 3.3 | 25 |
| 40 | Big program code dissemination scheme for emergency software-define wireless sensor networks. Peer-to-Peer Networking and Applications, 2018, 11, 1038-1059. | 3.9 | 40 |
| 41 | Leveraging content similarity among VMI files to allocate virtual machines in cloud. Future Generation Computer Systems, 2018, 79, 528-542. | 7.5 | 10 |
| 42 | An optimal algorithm for small group multicast in wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2018, 28, 168. | 0.5 | 1 |
| 43 | A Novel Indoor Localization Algorithm for Efficient Mobility Management in Wireless Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-12. | 1.2 | 6 |
| 44 | RFID Localization Based on Multiple Feature Fusion. , 2018, , . | | 10 |
| 45 | Energy-Aware Temporal Reachability Graphs for Time-Varying Mobile Opportunistic Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9831-9844. | 6.3 | 9 |
| 46 | Key parameters decision for cloud computing: Insights from a multiple game model. Concurrency Computation Practice and Experience, 2017, 29, e4200. | 2.2 | 14 |
| 47 | Exploiting distribution of channel state information for accurate wireless indoor localization. Computer Communications, 2017, 114, 73-83. | 5.1 | 17 |
| 48 | Edge Mesh: A New Paradigm to Enable Distributed Intelligence in Internet of Things. IEEE Access, 2017, 5, 16441-16458. | 4.2 | 157 |
| 49 | A High Throughput Reader Scheduling Algorithm for Large RFID Systems in Smart Environments. , 2017, , . | | 0 |
| 50 | Tag size profiling in multiple reader RFID systems. , 2017, , . | | 16 |
| 51 | Accurate Indoor Localization with Multiple Feature Fusion. Lecture Notes in Computer Science, 2017, , 522-533. | 1.3 | 1 |
| 52 | Let's work together: Fast tag identification by interference elimination for multiple RFID readers. , 2016, , . | | 12 |
| 53 | Flexible and Time-Efficient Tag Scanning with Handheld Readers. IEEE Transactions on Mobile Computing, 2016, 15, 840-852. | 5.8 | 50 |
| 54 | Who stole my cheese?: Verifying intactness of anonymous RFID systems. Ad Hoc Networks, 2016, 36, 111-126. | 5.5 | 5 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 55 | A locality-based range-free localization algorithm for anisotropic wireless sensor networks. Telecommunication Systems, 2016, 62, 3-13. | 2.5 | 38 |
| 56 | Algorithmic Methods in Wireless Sensor Network 2014. International Journal of Distributed Sensor Networks, 2015, 11, 805091. | 2.2 | 0 |
| 57 | Energy-efficient active tag searching in large scale RFID systems. Information Sciences, 2015, 317, 143-156. | 6.9 | 26 |
| 58 | Unknown Tag Identification in Large RFID Systems: An Efficient and Complete Solution. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1775-1788. | 5.6 | 71 |
| 59 | Accurate Range-Free Localization for Anisotropic Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-28. | 3.6 | 61 |
| 60 | STEP: A Time-Efficient Tag Searching Protocol in Large RFID Systems. IEEE Transactions on Computers, 2015, 64, 3265-3277. | 3.4 | 34 |
| 61 | Deterministic Detection of Cloning Attacks for Anonymous RFID Systems. IEEE Transactions on Industrial Informatics, 2015, 11, 1255-1266. | 11.3 | 36 |
| 62 | Minimizing Movement for Target Coverage and Network Connectivity in Mobile Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1971-1983. | 5.6 | 149 |
| 63 | ArPat: Accurate RFID reader positioning with mere boundary tags. , 2014, , . | | 1 |
| 64 | ECN-Based Congestion Probability Prediction over Hybrid Wired-Wireless Networks. International Journal of Distributed Sensor Networks, 2014, 10, 134620. | 2.2 | 5 |
| 65 | An energyâ€preserving spectrum access strategy in mobile cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2014, 25, 865-874. | 3.9 | 4 |
| 66 | LOCK: A fast and flexible tag scanning mechanism with handheld readers. , 2014, , . | | 2 |
| 67 | Toward Fast and Deterministic Clone Detection for Large Anonymous RFID Systems. , 2014, , . | | 6 |
| 68 | Secure localization and location verification in wireless sensor networks: a survey. Journal of Supercomputing, 2013, 64, 685-701. | 3.6 | 74 |
| 69 | Adaptive explicit congestion control based on bandwidth estimation for high bandwidth-delay product networks. Computer Communications, 2013, 36, 1235-1244. | 5.1 | 20 |
| 70 | Component-Based Localization for Wireless Sensor Networks Combining Angle and Distance Information. , 2013, , . | | 0 |
| 71 | A data gathering algorithm based on energy-balanced connected dominating sets in wireless sensor networks. , 2013, , . | | 1 |
| 72 | An energy-preserving spectrum access strategy in cognitive radio networks. , 2013, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 73 | Time Efficient Tag Searching in Multiple Reader RFID Systems. , 2013, , . | | 3 |
| 74 | An energy-balanced clustering protocol based on dominating set for data gathering in wireless sensor networks. , 2012, , . | | 6 |
| 75 | Complete and fast unknown tag identification in large RFID systems. , 2012, , . | | 30 |
| 76 | Minimizing Movement for Target Coverage in Mobile Sensor Networks. , 2012, , . | | 13 |
| 77 | Clique partition based relay placement in WiMAX mesh networks. , 2012, , . | | 2 |
| 78 | A Buffer Management Scheme Based on Message Transmission Status in Delay Tolerant Networks. , 2011, , . | | 10 |
| 79 | Anchor supervised distance estimation in anisotropic wireless sensor networks. , 2011, , . | | 18 |
| 80 | An Explicit Congestion Control Protocol Based on Bandwidth Estimation. , 2011, , . | | 1 |