

Xiaojiang Du

List of Publications by Year in descending order

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425
papers

15,842
citations

24978

57
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26548

107
g-index

426
all docs

426
docs citations

426
times ranked

10956
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | MeDShare: Trust-Less Medical Data Sharing Among Cloud Service Providers via Blockchain. IEEE Access, 2017, 5, 14757-14767. | 2.6 | 834 |
| 2 | A Survey of Machine and Deep Learning Methods for Internet of Things (IoT) Security. IEEE Communications Surveys and Tutorials, 2020, 22, 1646-1685. | 24.8 | 576 |
| 3 | A survey of key management schemes in wireless sensor networks. Computer Communications, 2007, 30, 2314-2341. | 3.1 | 490 |
| 4 | An effective key management scheme for heterogeneous sensor networks. Ad Hoc Networks, 2007, 5, 24-34. | 3.4 | 427 |
| 5 | Privacy-Preserving and Efficient Aggregation Based on Blockchain for Power Grid Communications in Smart Communities. IEEE Communications Magazine, 2018, 56, 82-88. | 4.9 | 344 |
| 6 | Transactions papers a routing-driven Elliptic Curve Cryptography based key management scheme for Heterogeneous Sensor Networks. IEEE Transactions on Wireless Communications, 2009, 8, 1223-1229. | 6.1 | 321 |
| 7 | Privacy-Preserving Support Vector Machine Training Over Blockchain-Based Encrypted IoT Data in Smart Cities. IEEE Internet of Things Journal, 2019, 6, 7702-7712. | 5.5 | 313 |
| 8 | Security in wireless sensor networks. IEEE Wireless Communications, 2008, 15, 60-66. | 6.6 | 297 |
| 9 | CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. IEEE Internet of Things Journal, 2021, 8, 3242-3254. | 5.5 | 296 |
| 10 | Timing Channel in IaaS: How to Identify and Investigate. IEEE Access, 2019, 7, 1-11. | 2.6 | 286 |
| 11 | Internet Protocol Television (IPTV): The Killer Application for the Next-Generation Internet. , 2007, 45, 126-134. | | 262 |
| 12 | Selection of effective machine learning algorithm and Bot-IoT attacks traffic identification for internet of things in smart city. Future Generation Computer Systems, 2020, 107, 433-442. | 4.9 | 256 |
| 13 | A Distributed Deep Learning System for Web Attack Detection on Edge Devices. IEEE Transactions on Industrial Informatics, 2020, 16, 1963-1971. | 7.2 | 234 |
| 14 | From IoT to 5G I-IoT: The Next Generation IoT-Based Intelligent Algorithms and 5G Technologies. IEEE Communications Magazine, 2018, 56, 114-120. | 4.9 | 231 |
| 15 | Blockchain-Assisted Secure Device Authentication for Cross-Domain Industrial IoT. IEEE Journal on Selected Areas in Communications, 2020, 38, 942-954. | 9.7 | 201 |
| 16 | Achieving Efficient and Secure Data Acquisition for Cloud-Supported Internet of Things in Smart Grid. IEEE Internet of Things Journal, 2017, 4, 1934-1944. | 5.5 | 198 |
| 17 | Security in Mobile Edge Caching with Reinforcement Learning. IEEE Wireless Communications, 2018, 25, 116-122. | 6.6 | 188 |
| 18 | Multiple Moving Targets Surveillance Based on a Cooperative Network for Multi-UAV. IEEE Communications Magazine, 2018, 56, 82-89. | 4.9 | 180 |

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| 19 | Real-Time Lateral Movement Detection Based on Evidence Reasoning Network for Edge Computing Environment. IEEE Transactions on Industrial Informatics, 2019, 15, 4285-4294. | 7.2 | 167 |
| 20 | IoT malicious traffic identification using wrapper-based feature selection mechanisms. Computers and Security, 2020, 94, 101863. | 4.0 | 165 |
| 21 | Cloud-Based Malware Detection Game for Mobile Devices with Offloading. IEEE Transactions on Mobile Computing, 2017, 16, 2742-2750. | 3.9 | 161 |
| 22 | A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications. IEEE Sensors Journal, 2013, 13, 3693-3701. | 2.4 | 160 |
| 23 | Evaluating Reputation Management Schemes of Internet of Vehicles Based on Evolutionary Game Theory. IEEE Transactions on Vehicular Technology, 2019, 68, 5971-5980. | 3.9 | 148 |
| 24 | A Blockchain-SDN-Enabled Internet of Vehicles Environment for Fog Computing and 5G Networks. IEEE Internet of Things Journal, 2020, 7, 4278-4291. | 5.5 | 147 |
| 25 | Privacy-Preserving Image Retrieval for Medical IoT Systems: A Blockchain-Based Approach. IEEE Network, 2019, 33, 27-33. | 4.9 | 140 |
| 26 | When Energy Trading Meets Blockchain in Electrical Power System: The State of the Art. Applied Sciences (Switzerland), 2019, 9, 1561. | 1.3 | 140 |
| 27 | BPDS: A Blockchain Based Privacy-Preserving Data Sharing for Electronic Medical Records. , 2018, , . | | 136 |
| 28 | Cloud-Based Approximate Constrained Shortest Distance Queries Over Encrypted Graphs With Privacy Protection. IEEE Transactions on Information Forensics and Security, 2018, 13, 940-953. | 4.5 | 134 |
| 29 | Consortium Blockchain-Based Malware Detection in Mobile Devices. IEEE Access, 2018, 6, 12118-12128. | 2.6 | 132 |
| 30 | Cognitive femtocell networks: an opportunistic spectrum access for future indoor wireless coverage. IEEE Wireless Communications, 2013, 20, 44-51. | 6.6 | 129 |
| 31 | Toward Vehicle-Assisted Cloud Computing for Smartphones. IEEE Transactions on Vehicular Technology, 2015, 64, 5610-5618. | 3.9 | 128 |
| 32 | A data-driven method for future Internet route decision modeling. Future Generation Computer Systems, 2019, 95, 212-220. | 4.9 | 119 |
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| 34 | Provably efficient algorithms for joint placement and allocation of virtual network functions. , 2017, , . | | 107 |
| 35 | Toward Privacy and Regulation in Blockchain-Based Cryptocurrencies. IEEE Network, 2019, 33, 111-117. | 4.9 | 104 |
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| 37 | Accurate Decentralized Application Identification via Encrypted Traffic Analysis Using Graph Neural Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 2367-2380. | 4.5 | 99 |
| 38 | Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. IEEE Internet of Things Journal, 2021, 8, 8119-8132. | 5.5 | 98 |
| 39 | Privacy-Preserving DDoS Attack Detection Using Cross-Domain Traffic in Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 628-643. | 9.7 | 93 |
| 40 | Efficient attribute-based encryption with attribute revocation for assured data deletion. Information Sciences, 2019, 479, 640-650. | 4.0 | 93 |
| 41 | Achieving Efficient Detection Against False Data Injection Attacks in Smart Grid. IEEE Access, 2017, 5, 13787-13798. | 2.6 | 90 |
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| 43 | Energy-efficient and traffic-aware service function chaining orchestration in multi-domain networks. Future Generation Computer Systems, 2019, 91, 347-360. | 4.9 | 89 |
| 44 | Blockchain-Based Incentives for Secure and Collaborative Data Sharing in Multiple Clouds. IEEE Journal on Selected Areas in Communications, 2020, 38, 1229-1241. | 9.7 | 89 |
| 45 | Maintaining Differentiated Coverage in Heterogeneous Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1. | 1.5 | 87 |
| 46 | A lightweight live memory forensic approach based on hardware virtualization. Information Sciences, 2017, 379, 23-41. | 4.0 | 85 |
| 47 | A detection method for a novel DDoS attack against SDN controllers by vast new low-traffic flows. , 2016, , . | | 84 |
| 48 | Two Tier Secure Routing Protocol for Heterogeneous Sensor Networks. IEEE Transactions on Wireless Communications, 2007, 6, 3395-3401. | 6.1 | 81 |
| 49 | File-Centric Multi-Key Aggregate Keyword Searchable Encryption for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 3648-3658. | 7.2 | 81 |
| 50 | Defending Resource Depletion Attacks on Implantable Medical Devices. , 2010, , . | | 80 |
| 51 | Permission-combination-based scheme for Android mobile malware detection. , 2014, , . | | 77 |
| 52 | Secure and Efficient Time Synchronization in Heterogeneous Sensor Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 2387-2394. | 3.9 | 74 |
| 53 | Towards secure and efficient energy trading in IIoT-enabled energy internet: A blockchain approach. Future Generation Computer Systems, 2020, 110, 686-695. | 4.9 | 71 |
| 54 | Collaborative Intrusion Detection for VANETs: A Deep Learning-Based Distributed SDN Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4519-4530. | 4.7 | 71 |

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| 55 | Intelligent Cognitive Radio in 5G: AI-Based Hierarchical Cognitive Cellular Networks. IEEE Wireless Communications, 2019, 26, 54-61. | 6.6 | 68 |
| 56 | Building Redactable Consortium Blockchain for Industrial Internet-of-Things. IEEE Transactions on Industrial Informatics, 2019, 15, 3670-3679. | 7.2 | 67 |
| 57 | Energy-Efficient Resource Allocation for Heterogeneous Services in OFDMA Downlink Networks: Systematic Perspective. IEEE Transactions on Vehicular Technology, 2014, 63, 2071-2082. | 3.9 | 66 |
| 58 | Assured Data Deletion With Fine-Grained Access Control for Fog-Based Industrial Applications. IEEE Transactions on Industrial Informatics, 2018, 14, 4538-4547. | 7.2 | 66 |
| 59 | Blockchain-Enhanced High-Confidence Energy Sharing in Internet of Electric Vehicles. IEEE Internet of Things Journal, 2020, 7, 7868-7882. | 5.5 | 66 |
| 60 | Interference management for heterogeneous networks with spectral efficiency improvement. IEEE Wireless Communications, 2015, 22, 101-107. | 6.6 | 65 |
| 61 | Bus-Trajectory-Based Street-Centric Routing for Message Delivery in Urban Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7550-7563. | 3.9 | 65 |
| 62 | Content-based multi-source encrypted image retrieval in clouds with privacy preservation. Future Generation Computer Systems, 2020, 109, 621-632. | 4.9 | 65 |
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| 67 | Improved Dota2 lineup recommendation model based on a bidirectional LSTM. Tsinghua Science and Technology, 2020, 25, 712-720. | 4.1 | 59 |
| 68 | Privacy-Preserving Authentication and Data Aggregation for Fog-Based Smart Grid. IEEE Communications Magazine, 2019, 57, 80-85. | 4.9 | 58 |
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| 70 | Achieving big data privacy via hybrid cloud. , 2014, , . | | 56 |
| 71 | Prometheus: Privacy-aware data retrieval on hybrid cloud. , 2013, , . | | 55 |
| 72 | Blockchain-Based Anonymous Authentication With Selective Revocation for Smart Industrial Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 3290-3300. | 7.2 | 55 |

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| 74 | Optimizing Feature Selection for Efficient Encrypted Traffic Classification: A Systematic Approach. IEEE Network, 2020, 34, 20-27. | 4.9 | 52 |
| 75 | QoS routing based on multi-class nodes for mobile ad hoc networks. Ad Hoc Networks, 2004, 2, 241-254. | 3.4 | 51 |
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| 85 | Adversarial Samples on Android Malware Detection Systems for IoT Systems. Sensors, 2019, 19, 974. | 2.1 | 47 |
| 86 | LPTD: Achieving lightweight and privacy-preserving truth discovery in CloT. Future Generation Computer Systems, 2019, 90, 175-184. | 4.9 | 46 |
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| 112 | Cross-App Interference Threats in Smart Homes: Categorization, Detection and Handling. , 2020, , . | | 36 |
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| 139 | A Course-Aware Opportunistic Routing Protocol for FANETs. IEEE Access, 2019, 7, 144303-144312. | 2.6 | 26 |
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| 146 | Context-Aware Object Detection for Vehicular Networks Based on Edge-Cloud Cooperation. <i>IEEE Internet of Things Journal</i> , 2020, 7, 5783-5791. | 5.5 | 25 |
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| 155 | Artificial Intelligence Security in 5G Networks: Adversarial Examples for Estimating a Travel Time Task. <i>IEEE Vehicular Technology Magazine</i> , 2020, 15, 95-100. | 2.8 | 23 |
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| 158 | Resource Allocation in Information-Centric Wireless Networking With D2D-Enabled MEC: A Deep Reinforcement Learning Approach. <i>IEEE Access</i> , 2019, 7, 114935-114944. | 2.6 | 22 |
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