

Alireza Jolfaei

List of Publications by Year in descending order

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121
papers

3,353
citations

172457

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docs citations

122
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning-Based Context-Aware Resource Allocation for Edge-Computing-Empowered Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 4260-4277.	8.7	197
2	Artificial Intelligence for Detection, Estimation, and Compensation of Malicious Attacks in Nonlinear Cyber-Physical Systems and Industrial IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 2716-2725.	11.3	189
3	A novel PCA whale optimization-based deep neural network model for classification of tomato plant diseases using GPU. Journal of Real-Time Image Processing, 2021, 18, 1383-1396.	3.5	174
4	On the Security of Permutation-Only Image Encryption Schemes. IEEE Transactions on Information Forensics and Security, 2016, 11, 235-246.	6.9	158
5	EEG-Based Brain-Computer Interfaces (BCIs): A Survey of Recent Studies on Signal Sensing Technologies and Computational Intelligence Approaches and Their Applications. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1645-1666.	3.0	144
6	A Face Emotion Recognition Method Using Convolutional Neural Network and Image Edge Computing. IEEE Access, 2019, 7, 159081-159089.	4.2	114
7	A Novel Conflict Measurement in Decision-Making and Its Application in Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2021, 29, 186-197.	9.8	110
8	A Systematic Review on Clone Node Detection in Static Wireless Sensor Networks. IEEE Access, 2020, 8, 65450-65461.	4.2	99
9	Energy-Aware Marine Predators Algorithm for Task Scheduling in IoT-Based Fog Computing Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 5068-5076.	11.3	96
10	Privacy-Preserving Federated Learning Framework Based on Chained Secure Multiparty Computing. IEEE Internet of Things Journal, 2021, 8, 6178-6186.	8.7	93
11	Mobility Aware Blockchain Enabled Offloading and Scheduling in Vehicular Fog Cloud Computing. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4212-4223.	8.0	72
12	Attacks on Self-Driving Cars and Their Countermeasures: A Survey. IEEE Access, 2020, 8, 207308-207342.	4.2	63
13	Fuzzy Detection System for Rumors Through Explainable Adaptive Learning. IEEE Transactions on Fuzzy Systems, 2021, 29, 3650-3664.	9.8	63
14	Efficient resource management and workload allocation in fog cloud computing paradigm in IoT using learning classifier systems. Computer Communications, 2020, 153, 217-228.	5.1	62
15	Real-time cheating immune secret sharing for remote sensing images. Journal of Real-Time Image Processing, 2021, 18, 1493-1508.	3.5	60
16	Consumer, Commercial, and Industrial IoT (In)Security: Attack Taxonomy and Case Studies. IEEE Internet of Things Journal, 2022, 9, 199-221.	8.7	57
17	Fuz-Spam: Label Smoothing-Based Fuzzy Detection of Spammers in Internet of Things. IEEE Transactions on Fuzzy Systems, 2022, 30, 4543-4554.	9.8	57
18	Investigating the Prospect of Leveraging Blockchain and Machine Learning to Secure Vehicular Networks: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 683-700.	8.0	56

#	ARTICLE	IF	CITATIONS
19	A survey of security and privacy issues in the Internet of Things from the layered context. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3935.	3.9	55
20	A data-driven intelligent planning model for UAVs routing networks in mobile Internet of Things. Computer Communications, 2021, 179, 231-241.	5.1	53
21	Preserving Privacy in the Internet of Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5018-5027.	8.0	49
22	Multi-Objective Neural Evolutionary Algorithm for Combinatorial Optimization Problems. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2133-2143.	11.3	44
23	Task Offloading Strategy Based on Reinforcement Learning Computing in Edge Computing Architecture of Internet of Vehicles. IEEE Access, 2020, 8, 173779-173789.	4.2	43
24	Self-attention-based conditional random fields latent variables model for sequence labeling. Pattern Recognition Letters, 2021, 145, 157-164.	4.2	38
25	Securing smart vehicles from relay attacks using machine learning. Journal of Supercomputing, 2020, 76, 2665-2682.	3.6	37
26	Information security in the post quantum era for 5G and beyond networks: Threats to existing cryptography, and post-quantum cryptography. Computer Communications, 2021, 176, 99-118.	5.1	37
27	Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. IEEE Internet of Things Journal, 2021, 8, 10280-10287.	8.7	35
28	A Novel Spectrum Sharing Scheme Using Dynamic Long Short-Term Memory With CP-OFDMA in 5G Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 926-934.	7.9	33
29	Privacy and Security of Connected Vehicles in Intelligent Transportation System. , 2019, , .		32
30	Mixed Graph Neural Network-Based Fake News Detection for Sustainable Vehicular Social Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15486-15498.	8.0	32
31	Elliptic Curve Cryptography Point Multiplication Core for Hardware Security Module. IEEE Transactions on Computers, 2020, 69, 1707-1718.	3.4	31
32	A Novel Real-Time Deterministic Scheduling Mechanism in Industrial Cyber-Physical Systems for Energy Internet. IEEE Transactions on Industrial Informatics, 2022, 18, 5670-5680.	11.3	31
33	Image Encryption Using Chaos and Block Cipher. Journal of Computer and Information Science, 2010, 4, .	0.3	29
34	On the Security of Networked Control Systems in Smart Vehicle and Its Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3824-3831.	8.0	28
35	Unsupervised-Learning-Based Continuous Depth and Motion Estimation With Monocular Endoscopy for Virtual Reality Minimally Invasive Surgery. IEEE Transactions on Industrial Informatics, 2021, 17, 3920-3928.	11.3	25
36	Antlion re-sampling based deep neural network model for classification of imbalanced multimodal stroke dataset. Multimedia Tools and Applications, 2022, 81, 41429-41453.	3.9	24

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37	Hiding sensitive information in eHealth datasets. <i>Future Generation Computer Systems</i> , 2021, 117, 169-180.	7.5	24
38	Binary cuckoo search metaheuristic-based supercomputing framework for human behavior analysis in smart home. <i>Journal of Supercomputing</i> , 2020, 76, 2479-2502.	3.6	22
39	Secure Data Streaming to Untrusted Road Side Units in Intelligent Transportation System. , 2019, , .		21
40	Cybersecurity Indexes for eHealth. , 2019, , .		20
41	A Distributed and Anonymous Data Collection Framework Based on Multilevel Edge Computing Architecture. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 6114-6123.	11.3	20
42	Resource allocation solution for sensor networks using improved chaotic firefly algorithm in IoT environment. <i>Computer Communications</i> , 2020, 156, 91-100.	5.1	20
43	Fair-Hierarchical Scheduling for Diversified Services in Space, Air and Ground for 6G-Dense Internet of Things. <i>IEEE Transactions on Network Science and Engineering</i> , 2021, 8, 2837-2848.	6.4	20
44	Comments on the security of "Diffusion" substitution based gray image encryption scheme. , 2014, 32, 34-36.		18
45	A 3D Object Encryption Scheme Which Maintains Dimensional and Spatial Stability. <i>IEEE Transactions on Information Forensics and Security</i> , 2015, 10, 409-422.	6.9	18
46	On the Lifetime of Asynchronous Software-Defined Wireless Sensor Networks. <i>IEEE Internet of Things Journal</i> , 2020, 7, 6069-6077.	8.7	18
47	Intelligent robust control for cyber-physical systems of rotary gantry type under denial of service attack. <i>Journal of Supercomputing</i> , 2020, 76, 3063-3085.	3.6	18
48	Vulnerability Modelling for Hybrid Industrial Control System Networks. <i>Journal of Grid Computing</i> , 2020, 18, 863-878.	3.9	18
49	Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. <i>IEEE Internet of Things Journal</i> , 2021, 8, 5202-5210.	8.7	18
50	A lightweight integrity protection scheme for low latency smart grid applications. <i>Computers and Security</i> , 2019, 86, 471-483.	6.0	17
51	A Secure and Decentralized Trust Management Scheme for Smart Health Systems. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1961-1968.	6.3	17
52	Resource Offload Consolidation Based on Deep-Reinforcement Learning Approach in Cyber-Physical Systems. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2022, 6, 245-254.	4.9	17
53	Vulnerability Modelling for Hybrid IT Systems. , 2019, , .		16
54	Dynamic clustering method for imbalanced learning based on AdaBoost. <i>Journal of Supercomputing</i> , 2020, 76, 9716-9738.	3.6	16

#	ARTICLE	IF	CITATIONS
55	A Low-Complexity Equalizer for Video Broadcasting in Cyber-Physical Social Systems Through Handheld Mobile Devices. IEEE Access, 2020, 8, 67591-67602.	4.2	16
56	A Novel Image Encryption Scheme Using Pixel Shuffler and A5/1. , 2010, , .		15
57	Integrating NFV and ICN for Advanced Driver-Assistance Systems. IEEE Internet of Things Journal, 2020, 7, 5861-5873.	8.7	15
58	Fuzzy-in-the-Loop-Driven Low-Cost and Secure Biometric User Access to Server. IEEE Transactions on Reliability, 2021, 70, 1014-1025.	4.6	15
59	Leveraging Energy Function Virtualization With Game Theory for Fault-Tolerant Smart Grid. IEEE Transactions on Industrial Informatics, 2021, 17, 678-687.	11.3	15
60	Uncertain-Driven Analytics of Sequence Data in IoCV Environments. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5403-5414.	8.0	15
61	Fault Current Limiter Dynamic Voltage Restorer (FCL-DVR) With Reduced Number of Components. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 526-534.	3.9	15
62	Cognitive Popularity Based AI Service Sharing for Software-Defined Information-Centric Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2126-2136.	6.4	14
63	Guest Editorial Special Issue on Privacy and Security in Distributed Edge Computing and Evolving IoT. IEEE Internet of Things Journal, 2020, 7, 2496-2500.	8.7	14
64	Secure Passive Keyless Entry and Start System Using Machine Learning. Lecture Notes in Computer Science, 2018, , 304-313.	1.3	13
65	An Intelligent prediction model for UCG state based on dual-source LSTM. International Journal of Machine Learning and Cybernetics, 2021, 12, 3169-3178.	3.6	13
66	Security and Privacy in Shared HitLCPS Using a GA-Based Multiple-Threshold Sanitization Model. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 16-25.	4.9	13
67	FinPrivacy: A Privacy-preserving Mechanism for Fingerprint Identification. ACM Transactions on Internet Technology, 2021, 21, 1-15.	4.4	13
68	Robust Multimodal Representation Learning With Evolutionary Adversarial Attention Networks. IEEE Transactions on Evolutionary Computation, 2021, 25, 856-868.	10.0	12
69	Detection and Compensation of Covert Service-Degrading Intrusions in Cyber Physical Systems through Intelligent Adaptive Control. , 2019, , .		11
70	An energy-aware drone trajectory planning scheme for terrestrial sensors localization. Computer Communications, 2020, 154, 542-550.	5.1	11
71	An intelligent cryptographic key management model for secure communications in distributed industrial intelligent systems. International Journal of Intelligent Systems, 2022, 37, 10158-10171.	5.7	11
72	SPEED: A Deep Learning Assisted Privacy-Preserved Framework for Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4376-4384.	8.0	11

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73	Experience-Driven Attack Design and Federated-Learning-Based Intrusion Detection in Industry 4.0. IEEE Transactions on Industrial Informatics, 2022, 18, 6398-6405.	11.3	11
74	Intrusion Detection for Maritime Transportation Systems With Batch Federated Aggregation. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-12.	8.0	11
75	Image encryption using HC-128 and HC-256 stream ciphers. International Journal of Electronic Security and Digital Forensics, 2012, 4, 19.	0.2	10
76	Ransomware Triage Using Deep Learning: Twitter as a Case Study. , 2019, , .		10
77	A Machine Learning-based Approach to Build Zero False-Positive IPSs for Industrial IoT and CPS with a Case Study on Power Grids Security. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	10
78	Automation of Recording in Smart Classrooms via Deep Learning and Bayesian Maximum $\langle i \rangle$ a Posteriori $\langle /i \rangle$ Estimation of Instructor's Pose. IEEE Transactions on Industrial Informatics, 2021, 17, 2813-2820.	11.3	10
79	Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. IEEE Internet of Things Journal, 2021, 8, 12716-12723.	8.7	10
80	Energy Efficient Proactive Routing Scheme for Enabling Reliable Communication in Underwater Internet of Things. IEEE Transactions on Network Science and Engineering, 2021, 8, 2934-2945.	6.4	9
81	A Lightweight Integrity Protection Scheme for Fast Communications in Smart Grid. , 2017, , .		9
82	An Embedding-Based Topic Model for Document Classification. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-13.	2.0	8
83	Missing Value Filling Based on the Collaboration of Cloud and Edge in Artificial Intelligence of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 5394-5402.	11.3	8
84	On the Silent Perturbation of State Estimation in Smart Grid. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	7
85	Learning Influential Cognitive Links in Social Networks by a New Hybrid Model for Opinion Dynamics. IEEE Transactions on Computational Social Systems, 2021, 8, 1262-1271.	4.4	7
86	Preserving the confidentiality of digital images using a chaotic encryption scheme. International Journal of Electronic Security and Digital Forensics, 2015, 7, 258.	0.2	6
87	A High Step-up Dual-Source Three Phase Inverter Topology with Decoupled and Reliable Control Algorithm. IEEE Transactions on Industry Applications, 2019, , 1-1.	4.9	6
88	Jam-Absorption Driving Strategy for Improving Safety Near Oscillations in a Connected Vehicle Environment Considering Consequential Jams. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 41-52.	3.8	6
89	Decentralized Opportunistic Channel Access in CRNs Using Big-Data Driven Learning Algorithm. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 57-69.	4.9	6
90	A Quantitative Comparative Study of Data-oriented Trust Management Schemes in Internet of Things. ACM Transactions on Management Information Systems, 2022, 13, 1-30.	2.8	6

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91	Adult content image recognition by Boltzmann machine limited and deep learning. Evolutionary Intelligence, 2023, 16, 1185-1194.	3.6	6
92	Enhanced adaptive bandwidth tracking using mean shift algorithm. , 2011, , .		5
93	On the Feasibility and Performance of Pass-Thought Authentication Systems. , 2013, , .		5
94	A Secure Lightweight Texture Encryption Scheme. Lecture Notes in Computer Science, 2016, , 344-356.	1.3	5
95	Guest Editorial: Security, Reliability, Privacy, and Quality in Industrial Automation and Control. IEEE Transactions on Industry Applications, 2020, 56, 4378-4380.	4.9	5
96	Guest Editorial Advanced Sensing and Sensor Fusion for Intelligent Transportation Systems. IEEE Sensors Journal, 2021, 21, 15425-15426.	4.7	5
97	High Bandwidth Green Communication With Vehicles by Decentralized Resource Optimization in Integrated Access Backhaul 5G Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 1438-1447.	5.5	5
98	A Computationally Intelligent Hierarchical Authentication and Key Establishment Framework for the Internet of Things. IEEE Internet of Things Magazine, 2020, 3, 36-39.	2.6	4
99	Security Principles and Challenges in Electronic Voting. , 2021, , .		4
100	Guest Editorial: Computational Intelligence for Human-in-the-Loop Cyber Physical Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 2-5.	4.9	4
101	Real-Time Transmission Optimization for Edge Computing in Industrial Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 9292-9301.	11.3	4
102	DeformableGAN: Generating Medical Images With Improved Integrity for Healthcare Cyber Physical Systems. IEEE Transactions on Network Science and Engineering, 2022, , 1-13.	6.4	4
103	Differentially Private Streaming to Untrusted Edge Servers in Intelligent Transportation System. , 2019, , .		3
104	Modeling of Human Cognition in Consensus Agreement on Social Media and Its Implications for Smarter Manufacturing. IEEE Transactions on Industrial Informatics, 2021, 17, 2902-2909.	11.3	3
105	A Weak-Region Enhanced Bayesian Classification for Spam Content-Based Filtering. ACM Transactions on Asian and Low-Resource Language Information Processing, 2023, 22, 1-18.	2.0	3
106	Closing the Loop in Feedback Driven Learning Environments Using Trust Decision Making and Utility Theory. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 6-18.	4.9	2
107	Vulnerability Detection in IoT Applications: A Fuzzing Method on their Binaries. IEEE Transactions on Network Science and Engineering, 2022, 9, 970-979.	6.4	2
108	Sensitivity Analysis for Vulnerability Mitigation in Hybrid Networks. Electronics (Switzerland), 2022, 11, 238.	3.1	2

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109	Multifactor Pattern Implicit Authentication. IEEE Consumer Electronics Magazine, 2022, 11, 26-32.	2.3	1
110	Power Side-Channel Analysis of RNS GLV ECC Using Machine and Deep Learning Algorithms. ACM Transactions on Internet Technology, 2021, 21, 1-20.	4.4	1
111	Guest Editorial Introduction to the Special Issue on Deep Learning Models for Safe and Secure Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4224-4229.	8.0	1
112	Impact of Rotations in the Salsa 20/8 Image Encryption Scheme. International Journal of Computer Theory and Engineering, 2012, , 938-943.	3.4	1
113	Secure ticket-based authentication method for IoT applications. Digital Communications and Networks, 2023, 9, 710-716.	5.0	1
114	Data Exchange in Delay Tolerant Networks using Joint Inter- and Intra-Flow Network Coding. , 2018, , .		0
115	Security Hardening of Implantable Cardioverter Defibrillators. , 2019, , .		0
116	Guest Editorial: Configuration Security for Industrial Automation and Control Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 4206-4209.	11.3	0
117	Renewable prediction-driven service offloading for IoT-enabled energy systems with edge computing. Wireless Networks, 0, , 1.	3.0	0
118	Securing the Internet of Everything through Adaptive and Resource-Efficient Mechanisms. IEEE Internet of Things Magazine, 2020, 3, 16-19.	2.6	0
119	Cyber-Physical Systems in Transportation. Internet of Things, 2022, , 129-149.	1.7	0
120	DeCoP: Deep Learning for COVID-19 Prediction of Survival. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2022, 8, 239-248.	2.1	0
121	Guest Editorial Introduction to the Special Issue on Context Prediction of Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9307-9310.	8.0	0