Industrial Internet of Things: Challenges, Opportunities

IEEE Transactions on Industrial Informatics 14, 4724-4734

DOI: 10.1109/tii.2018.2852491

Citation Report

#	Article	IF	CITATIONS
1	A New Method of Priority Assignment for Real-Time Flows in the WirelessHART Network by the TDMA Protocol. Sensors, 2018, 18, 4242.	3.8	6
2	A Utilization-Based Approach for Schedulability Analysis in Wireless Control Systems. , 2018, , .		11
3	A low-cost flexible IoT system supporting elderly's healthcare in rural villages. , 2018, , .		6
4	Emerging Trends in Hybrid Wireless Communication and Data Management for the Industry 4.0. Electronics (Switzerland), 2018, 7, 400.	3.1	32
5	Industrial Wireless Systems Guidelines: Practical Considerations and Deployment Life Cycle. IEEE Industrial Electronics Magazine, 2018, 12, 6-17.	2.6	38
6	Machine-to-machine wireless communication technologies for the Internet of Things: Taxonomy, comparison and open issues. Pervasive and Mobile Computing, 2018, 50, 56-81.	3.3	69
7	Internet of Measurement Things: Toward an Architectural Framework for the Calibration Industry. Computer Communications and Networks, 2019, , 81-102.	0.8	2
8	Industrial wireless sensor and actuator networks in industry 4.0: Exploring requirements, protocols, and challenges—A MAC survey. International Journal of Communication Systems, 2019, 32, e4074.	2.5	33
9	Wireless Interference Estimation Using Machine Learning in a Robotic Force-Seeking Scenario., 2019,,.		6
10	Online Optimization of Wireless Powered Mobile-Edge Computing for Heterogeneous Industrial Internet of Things. IEEE Internet of Things Journal, 2019, 6, 9880-9892.	8.7	42
11	Internet-of-Things (IoT)-Based Smart Agriculture: Toward Making the Fields Talk. IEEE Access, 2019, 7, 129551-129583.	4.2	557
12	Secure Environmental Monitoring for Industrial Internet of Things: from Framework to Live Implementation. , 2019, , .		3
13	Performance Analysis of Wireless Information Surveillance in Machine-Type Communication at Finite Blocklength Regime. Sensors, 2019, 19, 3031.	3.8	0
14	Tactile internet and its applications in 5G era: A comprehensive review. International Journal of Communication Systems, 2019, 32, e3981.	2.5	111
15	M2M Learning Environment for Electric Applications. , 2019, , .		3
16	Smart Industrial IoT Monitoring and Control System Based on UAV and Cloud Computing Applied to a Concrete Plant. Sensors, 2019, 19, 3316.	3.8	75
17	Cross-Layer Design for Mission-Critical IoT in Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 9360-9374.	8.7	41
18	Achieving Stagnation-Free Intermittent Computation with Boundary-Free Adaptive Execution. , 2019, , .		22

#	Article	IF	CITATIONS
19	Self-Sovereign Identity: Use-cases, Technologies, and Challenges for Industrial IoT., 2019,,.		36
20	Digitalization of a standard robot arm toward 4th industrial revolution. International Journal of Advanced Manufacturing Technology, 2019, 105, 2707-2720.	3.0	10
21	Data-driven failure analysis for the cyber physical infrastructures. , 2019, , .		13
22	K-Means Spreading Factor Allocation for Large-Scale LoRa Networks. Sensors, 2019, 19, 4723.	3.8	25
23	An efficient genetic method for multi-objective continuous production scheduling in Industrial Internet of Things. , 2019, , .		3
24	Xyreum: A High-Performance and Scalable Blockchain for IIoT Security and Privacy. , 2019, , .		18
25	CoSpec. , 2019, , .		21
26	Toward Self-Adaptive Software Defined Fog Networking Architecture for IIoT and Industry 4.0. , 2019, , .		23
27	Accuracy and Localization-Aware Rescheduling for Flexible Flow Shops in Industry 4.0., 2019, , .		7
28	Application Study of Hardware-Based Security for Future Industrial IoT., 2019,,.		5
29	Control as a Service: A Microservice Approach to Industry 4.0., 2019, , .		13
30	Secure and Privacy-Preserving Warning Message Dissemination in Cloud-Assisted Internet of Vehicles. , 2019, , .		7
31	Digitalization of Manufacturing Processes: Proposal and Experimental Results. , 2019, , .		10
32	Optimization of Sensor Deployment for Industrial Internet of Things Using a Multiswarm Algorithm. IEEE Internet of Things Journal, 2019, 6, 10344-10362.	8.7	25
33	On the evaluation of application level delays in public LoRaWAN networks. , 2019, , .		8
34	Smart Campus: An Experimental Performance Comparison of Collaborative and Cooperative Schemes for Wireless Sensor Network. Energies, 2019, 12, 3135.	3.1	28
35	Energy-Reliability Aware Link Optimization for Battery-Powered IoT Devices With Nonideal Power Amplifiers. IEEE Internet of Things Journal, 2019, 6, 5058-5067.	8.7	15
36	A SysML representation of the wireless factory work cell. International Journal of Advanced Manufacturing Technology, 2019, 104, 119-140.	3.0	5

#	Article	IF	CITATIONS
37	A Secure and Efficient Data Sharing and Searching Scheme in Wireless Sensor Networks. Sensors, 2019, 19, 2583.	3.8	5
38	Industrial Communication Systems and Their Future Challenges: Next-Generation Ethernet, IloT, and 5G. Proceedings of the IEEE, 2019, 107, 944-961.	21.3	236
39	Real-Time and Reliable Industrial Control Over Wireless LANs: Algorithms, Protocols, and Future Directions. Proceedings of the IEEE, 2019, 107, 1027-1052.	21.3	51
40	Heterogeneous slot scheduling for real-time industrial wireless sensor networks. Computer Networks, 2019, 157, 68-77.	5.1	3
41	Towards a systematic survey of industrial IoT security requirements. , 2019, , .		17
42	Wireless Network Design for Emerging IIoT Applications: Reference Framework and Use Cases. Proceedings of the IEEE, 2019, 107, 1166-1192.	21.3	40
43	EPKF: Energy Efficient Communication Schemes Based on Kalman Filter for IoT. IEEE Internet of Things Journal, 2019, 6, 6201-6211.	8.7	14
44	WoT Store: Enabling Things and Applications Discovery for the W3C Web of Things. , 2019, , .		19
45	Optimal Decision-Making to Charge Electric Vehicles in Heterogeneous Networks: Stackelberg Game Approach. Energies, 2019, 12, 325.	3.1	8
46	Building Redactable Consortium Blockchain for Industrial Internet-of-Things. IEEE Transactions on Industrial Informatics, 2019, 15, 3670-3679.	11.3	67
47	Assessment of Electric Vehicle Charging Costs in Presence of Distributed Photovoltaic Generation and Variable Electricity Tariffs. Energies, 2019, 12, 499.	3.1	23
49	Online Period Selection for Wireless Control Systems. , 2019, , .		3
50	Enhancing Authorization Mechanisms using Attribute Certificates for OPC UA based Applications. , 2019, , .		0
51	Research of Energy-Saving Wireless Self-Organizing Multy-Protocol Network for Internet of Things. , 2019, , .		0
52	Monitoring Improvement on Reactive, Proactive and Hybrid Protocols of Wireless Sensor Networks. , 2019, , .		3
53	Cyber Physical Systems and Internet of Things: Emerging Paradigms on Smart Cities. , 2019, , .		5
54	Identifying Cyberthreats in Modern Industrial Systems by Means of Deep-Learning Networks. Automatic Control and Computer Sciences, 2019, 53, 1006-1011.	0.8	2
55	Design and implementation of state-of-charge estimation based on back-propagation neural network for smart uninterruptible power system. International Journal of Distributed Sensor Networks, 2019, 15, 155014771989452.	2.2	3

#	Article	IF	CITATIONS
56	Blockchain for Internet of Things: Architecture, Consensus Advancements, Challenges and Application Areas. , 2019, , .		7
57	Complete Automation of an E-commerce System with Internet of Things. , 2019, , .		2
58	Security Considerations for Collaborations in an Industrial IoT-based Lab of Labs. , 2019, , .		6
59	A Reference Architecture and Evaluation Framework for Industrial Internet Platform. , 2019, , .		O
60	Wireless Sensor Network Prototype to Monitor the Condition of Holding Furnaces in the Aluminum Casting Plant. , 2019, , .		4
61	A Statistical Performance Analysis of Named Data Ultra Dense Networks. Applied Sciences (Switzerland), 2019, 9, 3714.	2.5	3
62	Environmental Monitoring with Distributed Mesh Networks: An Overview and Practical Implementation Perspective for Urban Scenario. Sensors, 2019, 19, 5548.	3.8	6
63	Recent Advances in Machine Learning-based Anomaly Detection for Industrial Control Networks. , 2019, , .		10
64	DART: Dynamic Bandwidth Distribution Framework for Virtualized Software Defined Networks. , 2019, ,		3
65	A Packet Aggregation Scheme for WIA-PA Networks Based on Wireless Channel State., 2019,,.		2
66	Efficient Estimation Algorithm of Carrier Frequency Offset for LTE Machine-Type Communication Using Frequency Hopping. IEEE Access, 2019, 7, 177274-177283.	4.2	2
67	Predictive Analytics in a Pulp Mill using Factory Automation Data—Hidden Potential. , 2019, , .		1
68	Minimizing Age of Information for Real-Time Monitoring in Resource-Constrained Industrial IoT Networks. , 2019, , .		20
69	An opacity approach for security exposure of IoT components in critical infrastructures., 2019,,.		1
70	Robust and Efficient Privacy Preservation in Industrial IoT via correlation completion and tracking. , 2019, , .		0
71	RMA-RP: A Reliable Mobility-Aware Routing Protocol for Industrial IoT Networks. , 2019, , .		6
72	A Smart Gateway Enabling OPC UA and DDS Interoperability. , 2019, , .		8
73	Localization Performance of 1-Bit Passive Radars in NB-IOT Applications. , 2019, , .		4

#	Article	IF	CITATIONS
74	Swarm Intelligence-Based Performance Optimization for Mobile Wireless Sensor Networks: Survey, Challenges, and Future Directions. IEEE Access, 2019, 7, 161524-161553.	4.2	38
75	Development An Open-Source Industrial IoT Gateway. , 2019, , .		15
76	Remote Monitoring of Coupled Tank Accompanied by PLC-OPC-MATLAB Architecture. , 2019, , .		1
77	SensiTrack - A Privacy by Design Concept for Industrial IoT Applications. , 2019, , .		5
78	Nearly-Optimal Resource Allocation for Coexisting Industrial Wireless Networks with Line Topologies. , 2019, , .		3
79	Robust Semidefinite Relaxation Method for Energy-Based Source Localization: Known and Unknown Decay Factor Cases. IEEE Access, 2019, 7, 163740-163748.	4.2	3
80	An Overview on Industrial Internet of Things. Computer Communications and Networks, 2019, , 207-216.	0.8	5
81	CapNet. ACM Transactions on Sensor Networks, 2019, 15, 1-34.	3.6	4
82	Human-Centered Software Engineering. Lecture Notes in Computer Science, 2019, , .	1.3	3
83	Data fusion and machine learning for industrial prognosis: Trends and perspectives towards Industry 4.0. Information Fusion, 2019, 50, 92-111.	19.1	373
84	Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments. IEEE Systems Journal, 2020, 14, 310-320.	4.6	61
85	A Global Manufacturing Big Data Ecosystem for Fault Detection in Predictive Maintenance. IEEE Transactions on Industrial Informatics, 2020, 16, 183-192.	11.3	125
86	IEEE 802.15.4.e TSCH-Based Scheduling for Throughput Optimization: A Combinatorial Multi-Armed Bandit Approach. IEEE Sensors Journal, 2020, 20, 525-537.	4.7	21
87	Energy-Efficient Over-the-Air Computation Scheme for Densely Deployed IoT Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 3558-3565.	11.3	12
88	Blockchain and Federated Learning for Privacy-Preserved Data Sharing in Industrial IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 4177-4186.	11.3	650
89	A Framework of Priority-Aware Packet Transmission Scheduling in Cluster-Based Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 5596-5606.	11.3	33
90	Efficient and Secure Anonymous Authentication With Location Privacy for IoT-Based WBANs. IEEE Transactions on Industrial Informatics, 2020, 16, 2603-2611.	11.3	101
91	Enhanced Resilient State Estimation Using Data-Driven Auxiliary Models. IEEE Transactions on Industrial Informatics, 2020, 16, 639-647.	11.3	38

#	Article	IF	CITATIONS
92	Manipulation With Domino Effect for Cache- and Buffer-Enabled Social IIoT: Preserving Stability in Tripartite Graphs. IEEE Transactions on Industrial Informatics, 2020, 16, 5389-5400.	11.3	11
93	Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing. IEEE Systems Journal, 2020, 14, 113-123.	4.6	5
94	Learning-Based Energy-Efficient Resource Management by Heterogeneous RF/VLC for Ultra-Reliable Low-Latency Industrial IoT Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 5565-5576.	11.3	125
95	Fault-Tolerant Event Region Detection on Trajectory Pattern Extraction for Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 2072-2080.	11.3	40
96	Social-Aware Incentive Mechanisms for D2D Resource Sharing in IIoT. IEEE Transactions on Industrial Informatics, 2020, 16, 5517-5526.	11.3	47
97	Context-Aware Placement of Industry 4.0 Applications in Fog Computing Environments. IEEE Transactions on Industrial Informatics, 2020, 16, 7004-7013.	11.3	60
98	Intelligent Quality of Service Aware Traffic Forwarding for Software-Defined Networking/Open Shortest Path First Hybrid Industrial Internet. IEEE Transactions on Industrial Informatics, 2020, 16, 1395-1405.	11.3	31
99	Challenges and recommended technologies for the industrial internet of things: A comprehensive review. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107198.	5.0	118
100	A Shared Bus Profiling Scheme for Smart Cities Based on Heterogeneous Mobile Crowdsourced Data. IEEE Transactions on Industrial Informatics, 2020, 16, 1436-1444.	11.3	40
101	Cyber Physical systems and security. , 2020, , 271-289.		4
102	Behind the definition of Industry 4.0: Analysis and open questions. International Journal of Production Economics, 2020, 226, 107617.	8.9	337
103	Industry 4.0, digitization, and opportunities for sustainability. Journal of Cleaner Production, 2020, 252, 119869.	9.3	828
104	Data management techniques for Internet of Things. Mechanical Systems and Signal Processing, 2020, 138, 106564.	8.0	84
105	Classifier Inconsistency-Based Domain Adaptation Network for Partial Transfer Intelligent Diagnosis. IEEE Transactions on Industrial Informatics, 2020, 16, 5965-5974.	11.3	80
106	Mobile-Edge-Computing-Based Hierarchical Machine Learning Tasks Distribution for IIoT. IEEE Internet of Things Journal, 2020, 7, 2169-2180.	8.7	72
107	A Deep Learning framework for simulation and defect prediction applied in microelectronics. Simulation Modelling Practice and Theory, 2020, 100, 102063.	3.8	24
108	Faster Authenticated Key Agreement With Perfect Forward Secrecy for Industrial Internet-of-Things. IEEE Transactions on Industrial Informatics, 2020, 16, 6584-6596.	11.3	35
109	Experimental Assessments and Analysis of an SDN Framework to Integrate Mobility Management in Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 5586-5595.	11.3	23

#	ARTICLE	IF	CITATIONS
110	Industrial internet of things: Recent advances, enabling technologies and open challenges. Computers and Electrical Engineering, 2020, 81, 106522.	4.8	289
111	Reliable Data Aggregation in Internet of ViSAR Vehicles Using Chained Dual-Phase Adaptive Interpolation and Data Embedding. IEEE Internet of Things Journal, 2020, 7, 2603-2610.	8.7	35
112	Cyber-security on smart grid: Threats and potential solutions. Computer Networks, 2020, 169, 107094.	5.1	330
113	Sustainable Industry 4.0 in Production and Operations Management: A Systematic Literature Review. Sustainability, 2020, 12, 7982.	3.2	55
114	Dragonfly approach for resource allocation in industrial wireless networks. Physical Communication, 2020, 43, 101198.	2.1	4
115	Joint Computation Offloading and Resource Allocation for NOMA-Enabled Industrial Internet of Things. , 2020, , .		4
116	The Interaction between Internet, Sustainable Development, and Emergence of Society 5.0. Data, 2020, 5, 80.	2.3	42
117	A propagation breakdown management model for the industrial internet of things. Computers in Industry, 2020, 123, 103305.	9.9	1
118	The impact of Industry 4.0 on the reconciliation of dynamic capabilities: evidence from the European manufacturing industries. Production Planning and Control, 2022, 33, 277-300.	8.8	90
119	Permissioned Blockchain-based Security for IIoT. , 2020, , .		11
120	MAKE-ITâ€"A Lightweight Mutual Authentication and Key Exchange Protocol for Industrial Internet of Things. Sensors, 2020, 20, 5166.	3.8	21
121	A Software Architecture for the Industrial Internet of Things—A Conceptual Model. Sensors, 2020, 20, 5603.	3.8	24
122	The contribution of cyber-physical production systems to activity-based costing in manufacturing. An interventionist research approach. International Journal of Engineering Business Management, 2020, 12, 184797902096230.	3.7	7
123	Blockchain Technologies for IoT Applications: Use-cases and Limitations. , 2020, , .		2
124	Computing Algorithms for LDPC Coded Internet-of-Things. IEEE Access, 2020, 8, 88498-88505.	4.2	2
125	On the use of a full stack hardware/software infrastructure for sensor data fusion and fault prediction in industry 4.0. Pattern Recognition Letters, 2020, 138, 30-37.	4.2	17
126	SDN orchestration to combat evolving cyber threats in Internet of Medical Things (IoMT). Computer Communications, 2020, 160, 697-705.	5.1	53
127	Edge Computing in Industrial Internet of Things: Architecture, Advances and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2462-2488.	39.4	355

#	Article	IF	CITATIONS
128	BEE-DRONES: Ultra low-power monitoring systems based on unmanned aerial vehicles and wake-up radio ground sensors. Computer Networks, 2020, 180, 107425.	5.1	13
129	Pitfalls and protocols of data science in manufacturing practice. Journal of Intelligent Manufacturing, 2022, 33, 1189-1207.	7.3	26
130	Towards digital engineering: the advent of digital systems engineering. International Journal of Systems Engineering, 2020, 10, 234.	0.5	11
132	Wireless connectivity in Industrial sensor and control networks: Challenges and issues in a real implementation for a smart production use-case. , 2020, , .		3
133	Towards Customer-Centric Additive Manufacturing: Making Human-Centered 3D Design Tools through a Handheld-Based Multi-Touch User Interface. Sensors, 2020, 20, 4255.	3.8	5
134	Internet of Things and Big Data as enablers for business digitalization strategies. Technovation, 2020, 98, 102173.	7.8	223
135	A Systematic Survey of Industrial Internet of Things Security: Requirements and Fog Computing Opportunities. IEEE Communications Surveys and Tutorials, 2020, 22, 2489-2520.	39.4	225
136	Machine Learning-Aided Classification Of LoS/NLoS Radio Links In Industrial IoT. , 2020, , .		5
137	Evaluation of the impact on industrial applications of NTP Used by IoT devices. , 2020, , .		7
138	Congestion Detection and Control for 6TiSCH Networks in IloT Applications. , 2020, , .		3
139	Security and Privacy in IoT: A Survey. Wireless Personal Communications, 2020, 115, 1667-1693.	2.7	101
140	Work-In-Progress: Assessing Supply/Demand-Bound Based Schedulability Tests For Wireless Sensor-Actuator Networks. , 2020, , .		2
141	The Research and Design of the Management and Control System Based on the Industrial Internet Gateway. , 2020, , .		1
142	Work-in-Progress: Compromising Security of Real-time Ethernet Devices by means of Selective Queue Saturation Attack. , 2020, , .		2
143	Assessment of Different OPC UA Industrial IoT solutions for Distributed Measurement Applications. , 2020, , .		3
144	Decision Triggered Data Transmission and Collection in Industrial Internet of Things. , 2020, , .		1
145	Towards Trusted Data on Decentralized IoT Applications: Integrating Blockchain in Constrained Devices. , 2020, , .		13
146	A Model for the Remote Deployment, Update, and Safe Recovery for Commercial Sensor-Based IoT Systems. Sensors, 2020, 20, 4393.	3.8	2

#	Article	IF	Citations
147	An Approach for Data Pipeline with Distributed Query Engine for Industrial Applications. , 2020, , .		5
148	Internet of Things and Its Applications: A Comprehensive Survey. Symmetry, 2020, 12, 1674.	2.2	130
149	Learning-Based Resource Allocation in Industrial IoT Systems. , 2020, , .		1
150	An Overview of Design Patterns for Self-Adaptive Systems in the Context of the Internet of Things. IEEE Access, 2020, 8, 187384-187399.	4.2	19
151	A Discussion on Context-Awareness to Better Support the IoT Cloud/Edge Continuum. IEEE Access, 2020, 8, 193686-193694.	4.2	9
152	Experiences from Building a Multi-Access Edge Computing Internet of Things Testbed. , 2020, , .		1
153	Supervisory Control and Data Acquisition Approach in Node-RED: Application and Discussions. IoT, 2020, $1,76-91$ .	3.8	16
154	Reduced Complexity Detection of Narrowband Secondary Synchronization Signal for NB-IoT Communication Systems. Symmetry, 2020, 12, 1342.	2.2	1
155	Availability and Operability in Optical Transport Network Architectures. , 2020, , .		1
156	Privacy-preserving solutions in the Industrial Internet of Things. , 2020, , .		6
157	Study on the Reference Architecture and Assessment Framework of Industrial Internet Platform. IEEE Access, 2020, 8, 164950-164971.	4.2	22
158	A Space-Time Correlation Model for MRC Receivers in Rayleigh Fading Channels. Technologies, 2020, 8, 41.	5.1	0
159	Plant Growth Prediction through Intelligent Embedded Sensing. , 2020, , .		10
160	TARA: An Efficient Random Access Mechanism for NB-IoT by Exploiting TA Value Difference in Collided Preambles. IEEE Transactions on Mobile Computing, 2022, 21, 1110-1123.	5.8	5
161	Boundary Tracking of Continuous Objects Based on Binary Tree Structured SVM for Industrial Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2022, 21, 849-861.	5.8	22
162	Real-Time Systems Implications in the Blockchain-Based Vertical Integration of Industry 4.0. Computer, 2020, 53, 46-55.	1.1	10
163	Analysis of Distributed and Autonomous Scheduling Functions for 6TiSCH Networks. IEEE Access, 2020, 8, 158243-158262.	4.2	14
164	Real-Time Sensor Networks and Systems for the Industrial IoT: What Next?. Sensors, 2020, 20, 5023.	3.8	7

#	ARTICLE	IF	CITATIONS
165	Deep Reinforcement Learning for the management of Software-Defined Networks in Smart Farming. , 2020, , .		17
166	TON_IoT Telemetry Dataset: A New Generation Dataset of IoT and IIoT for Data-Driven Intrusion Detection Systems. IEEE Access, 2020, 8, 165130-165150.	4.2	260
167	BlockEdge: Blockchain-Edge Framework for Industrial IoT Networks. IEEE Access, 2020, 8, 154166-154185.	4.2	61
168	MMP - A Platform to Manage Machine Learning Models in Industry 4.0 Environments. , 2020, , .		2
169	Real-Time Target Detection in Visual Sensing Environments Using Deep Transfer Learning and Improved Anchor Box Generation. IEEE Access, 2020, 8, 193512-193522.	4.2	6
170	Key Advances in Pervasive Edge Computing for Industrial Internet of Things in 5G and Beyond. IEEE Access, 2020, 8, 206734-206754.	4.2	43
171	On Data Integrity Attacks against Industrial Internet of Things. , 2020, , .		7
172	Performance Evaluation of Industrial Internet of Things Services in Devices of Cloud-Fog-Dew-Things Computing. , 2020, , .		4
173	Green Industrial Internet of Things from a smart industry perspectives. Energy Reports, 2020, 6, 430-446.	5.1	65
174	Securing IIoT using Defence-in-Depth: Towards an End-to-End secure Industry 4.0. Journal of Manufacturing Systems, 2020, 57, 367-378.	13.9	31
175	HyS-R: A Hybrid Subscription-Recovery Method for Downlink Connectivity in 6TiSCH Networks. , 2020, , .		0
176	An IIoT System to Monitor 3D–Printed Artifacts via LoRaWAN Embedded Sensors. , 2020, , .		1
177	Increasing operational flexibility using Industry 4.0 enabling technologies in final assembly. , 2020, , .		6
178	An Efficient Authentication Scheme for Secure Communication between Industrial IoT Devices. , 2020, ,		8
179	Wireless Powered Mobile Edge Computing for Industrial Internet of Things Systems. IEEE Access, 2020, 8, 101539-101549.	4.2	17
180	Physical Layer Authentication for Non-Coherent Massive SIMO-Enabled Industrial IoT Communications. IEEE Transactions on Information Forensics and Security, 2020, 15, 3722-3733.	6.9	35
181	Internet-based intelligent and sustainable manufacturing: developments and challenges. International Journal of Advanced Manufacturing Technology, 2020, 108, 1767-1791.	3.0	35
182	A Novel Data Collection Framework for Telemetry and Anomaly Detection in Industrial IoT Systems. , 2020, , .		10

#	Article	IF	Citations
183	Blockchain Secured "Smart Buildings―as Cyber Physical Systems. Communications in Computer and Information Science, 2020, , 35-53.	0.5	0
184	The sustainable manufacturing concept, evolution and opportunities within Industry 4.0: A literature review. Advances in Mechanical Engineering, 2020, 12, 168781402092523.	1.6	111
185	A Matching Game With Discard Policy for Virtual Machines Placement in Hybrid Cloud-Edge Architecture for Industrial IoT Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 7046-7055.	11,3	24
186	Random Forest-Bayesian Optimization for Product Quality Prediction With Large-Scale Dimensions in Process Industrial Cyber–Physical Systems. IEEE Internet of Things Journal, 2020, 7, 8641-8653.	8.7	35
187	Efficient and Privacy-Preserving Authentication Protocol for Heterogeneous Systems in IIoT. IEEE Internet of Things Journal, 2020, 7, 11713-11724.	8.7	50
188	Rateless802.11: Extending WiFi applicability in extremely poor channels. Computer Networks, 2020, 179, 107361.	5.1	2
189	Scheduling in Industry 4.0 and Cloud Manufacturing. Profiles in Operations Research, 2020, , .	0.4	29
190	Weather-Based Prediction Strategy inside the Proactive Historian with Application in Wastewater Treatment Plants. Applied Sciences (Switzerland), 2020, 10, 3015.	2.5	5
191	A Strategic Roadmap for the Manufacturing Industry to Implement Industry 4.0. Designs, 2020, 4, 11.	2.4	63
192	Network Optimization for Industrial Internet of Things (IIoT). , 2020, 4, 1-4.		8
193	Towards Industrial Ultra-Wideband Networks: Experiments for Machine Vibration Monitoring. IEEE Access, 2020, 8, 42576-42583.	4.2	3
194	Rugged Linear Array for IoT Applications. IEEE Internet of Things Journal, 2020, 7, 5078-5087.	8.7	15
195	QoS-Aware Fog Service Orchestration for Industrial Internet of Things. IEEE Transactions on Services Computing, 2022, 15, 1265-1279.	4.6	10
196	A Robust Joint Cell Identification and Frequency Recovery Scheme for LTE Machine-Type Communications. IEEE Transactions on Industrial Informatics, 2020, 16, 6433-6443.	11.3	0
197	Attacks on the Industrial Internet of Things – Development of a multi-layer Taxonomy. Computers and Security, 2020, 93, 101790.	6.0	29
198	SC-RPL: A Social Cognitive Routing for Communications in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 7682-7690.	11.3	8
199	Downward traffic retransmission mechanism for improving reliability in RPL environment supporting mobility. International Journal of Distributed Sensor Networks, 2020, 16, 155014772090360.	2.2	7
200	Onboard Spectral Analysis for Low-Complexity IoT Devices. IEEE Access, 2020, 8, 43027-43045.	4.2	4

#	Article	IF	CITATIONS
201	Open ecosystem for future industrial Internet of things (IIoT): Architecture and application. CSEE Journal of Power and Energy Systems, 2020, , .	1.1	13
202	Congestion Control and Traffic Differentiation for Heterogeneous 6TiSCH Networks in IIoT. Sensors, 2020, 20, 3508.	3.8	4
203	Computer Vision Toolkit for Non-invasive Monitoring of Factory Floor Artifacts. Procedia Manufacturing, 2020, 48, 1020-1028.	1.9	10
204	Deep Robust Cramer Shoup Delay Optimized Fully Homomorphic For IIOT secured transmission in cloud computing. Computer Communications, 2020, 161, 10-18.	5.1	8
205	Evaluation of LoRaWAN for Sensor Data Collection in an IIoT–based Additive Manufacturing Project. , 2020, , .		4
206	Manufacturing Blockchain of Things for the Configuration of a Data- and Knowledge-Driven Digital Twin Manufacturing Cell. IEEE Internet of Things Journal, 2020, 7, 11884-11894.	8.7	91
207	A Platform for IEEE 1451 Standard's Education, Development and Validation for Industry 4.0. , 2020, , .		4
208	Geometric Deep Lean Learning: Deep Learning in Industry 4.0 Cyber–Physical Complex Networks. Sensors, 2020, 20, 763.	3.8	17
209	Design of a Smart Manufacturing System With the Application of Multi-Access Edge Computing and Blockchain Technology. IEEE Access, 2020, 8, 28659-28667.	4.2	47
210	Blockchain-Enabled Secure Energy Trading With Verifiable Fairness in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 6564-6574.	11.3	115
211	Optimal Configuration of LoRa Networks in Smart Cities. IEEE Transactions on Industrial Informatics, 2020, 16, 7243-7254.	11.3	58
212	Spatially Coupled Codes via Partial and Recursive Superposition for Industrial IoT With High Trustworthiness. IEEE Transactions on Industrial Informatics, 2020, 16, 6143-6153.	11.3	15
213	Increasing the Trustworthiness in the Industrial IoT Networks Through a Reliable Cyberattack Detection Model. IEEE Transactions on Industrial Informatics, 2020, 16, 6154-6162.	11.3	89
214	FactDAG: Formalizing Data Interoperability in an Internet of Production. IEEE Internet of Things Journal, 2020, 7, 3243-3253.	8.7	40
215	TrustE-VC: Trustworthy Evaluation Framework for Industrial Connected Vehicles in the Cloud. IEEE Transactions on Industrial Informatics, 2020, 16, 6203-6213.	11.3	44
216	Automatic Fault Diagnosis of Infrared Insulator Images Based on Image Instance Segmentation and Temperature Analysis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5345-5355.	4.7	98
217	Security-Critical Energy-Aware Task Scheduling for Heterogeneous Real-Time MPSoCs in IoT. IEEE Transactions on Services Computing, 2020, 13, 745-758.	4.6	110
218	Deterministic Scheduling With Optimization of Average Transmission Delays in Industrial Wireless Sensor Networks. IEEE Access, 2020, 8, 18852-18862.	4.2	9

#	Article	IF	CITATIONS
219	Stackelberg Game-Based Computation Offloading in Social and Cognitive Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 5444-5455.	11.3	54
220	Privacy Preservation in Industrial IoT via Fast Adaptive Correlation Matrix Completion. IEEE Transactions on Industrial Informatics, 2020, 16, 7765-7773.	11.3	8
221	A Blockchain-Based Secure Image Encryption Scheme for the Industrial Internet of Things. Entropy, 2020, 22, 175.	2.2	88
222	WoT Store: Managing resources and applications on the web of things. Internet of Things (Netherlands), 2020, 9, 100164.	7.7	18
223	Renovation of Automation System Based on Industrial Internet of Things: A Case Study of a Sewage Treatment Plant. Sensors, 2020, 20, 2175.	3.8	27
224	Noise Removal in the Presence of Significant Anomalies for Industrial IoT Sensor Data in Manufacturing. IEEE Internet of Things Journal, 2020, 7, 7084-7096.	8.7	33
225	Machine-type wireless communications enablers for beyond 5G: Enabling URLLC via diversity under hard deadlines. Computer Networks, 2020, 174, 107227.	5.1	10
226	Achieving Accountable and Efficient Data Sharing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 1416-1427.	11.3	30
227	Data Age Aware Scheduling for Wireless Powered Mobile-Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 398-408.	11.3	37
228	Energy-Efficient LoRaWAN for Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 891-902.	11.3	62
229	Extending Network Programmability to the Things Overlay Using Distributed Industrial IoT Protocols. IEEE Transactions on Industrial Informatics, 2021, 17, 251-259.	11.3	17
230	Enhancing Performance of Gabriel Graph-Based Classifiers by a Hardware Co-Processor for Embedded System Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 1186-1196.	11.3	4
231	Model-Based Stealth Attack to Networked Control System Based on Real-Time Ethernet. IEEE Transactions on Industrial Electronics, 2021, 68, 7672-7683.	7.9	16
232	Industrial Frameworks for Internet of Things: A Survey. IEEE Systems Journal, 2021, 15, 1149-1159.	4.6	70
233	ADTT: A Highly Efficient Distributed Tensor-Train Decomposition Method for IIoT Big Data. IEEE Transactions on Industrial Informatics, 2021, 17, 1573-1582.	11.3	100
234	SDN-Enabled Energy-Efficient Routing Optimization Framework for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 5660-5667.	11.3	41
235	Efficient and Lightweight Data Streaming Authentication in Industrial Control and Automation Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 4279-4287.	11.3	15
236	Effective Time, Frequency, and Sidelink Synchronization for Cellular Device-to-Device Communications. IEEE Systems Journal, 2021, 15, 2938-2947.	4.6	2

#	Article	IF	CITATIONS
237	Lucy With Agents in the Sky: Trustworthiness of Cloud Storage for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 953-960.	11.3	5
238	Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems. IEEE Internet of Things Journal, 2021, 8, 4548-4559.	8.7	39
239	A Reinforcement Learning Empowered Cooperative Control Approach for IIoT-Based Virtually Coupled Train Sets. IEEE Transactions on Industrial Informatics, 2021, 17, 4935-4945.	11.3	20
240	Unification of Blockchain and Internet of Things (BIoT): requirements, working model, challenges and future directions. Wireless Networks, 2021, 27, 55-90.	3.0	112
241	A Practical Model Based on Anomaly Detection for Protecting Medical IoT Control Services Against External Attacks. IEEE Transactions on Industrial Informatics, 2021, 17, 4260-4269.	11.3	30
242	Communication-Efficient Federated Learning for Digital Twin Edge Networks in Industrial IoT. IEEE Transactions on Industrial Informatics, 2021, 17, 5709-5718.	11.3	132
243	Timely Information Update With Nonorthogonal Multiple Access. IEEE Transactions on Industrial Informatics, 2021, 17, 4096-4106.	11.3	16
244	Sequential Detection of Cyclic Prefix Mode, Sidelink Synchronization Signal, and Frequency Offset for LTE Device-to-Device Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 3982-3991.	11.3	2
245	Power Management IC With a Three-Phase Cold Self-Start for Thermoelectric Generators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 103-113.	5.4	6
246	An IoT open source platform for photovoltaic plants supervision. International Journal of Electrical Power and Energy Systems, 2021, 125, 106540.	5.5	34
247	A theoretical investigation of modelling the temperature measurement in oil pipelines with edge devices. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108440.	5.0	5
248	Energy-Efficient Dual-Hop Internet of Things Communications Network With Delay-Outage Constraints. IEEE Transactions on Industrial Informatics, 2021, 17, 4892-4903.	11.3	8
249	Cost-effective IoT devices as trustworthy data sources for a blockchain-based water management system in precision agriculture. Computers and Electronics in Agriculture, 2021, 180, 105889.	7.7	60
250	Towards green communication in 5G systems: Survey on beamforming concept. IET Communications, 2021, 15, 142-154.	2.2	16
251	Assessment of Different OPC UA Implementations for Industrial IoT-Based Measurement Applications. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	20
252	Implementing energy efficiency measures: do other production resources matter? A broad study in Slovenian manufacturing small and medium-sized enterprises. Journal of Cleaner Production, 2021, 287, 125044.	9.3	13
253	Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 2318-2329.	8.7	53
254	DWFCAT: Dual Watermarking Framework for Industrial Image Authentication and Tamper Localization. IEEE Transactions on Industrial Informatics, 2021, 17, 5108-5117.	11.3	54

#	Article	IF	CITATIONS
255	Characterization of Event-Based Sampling Encoders for Industrial Internet of Things Using Input–Output Mutual Information. IEEE Transactions on Industrial Informatics, 2021, 17, 5495-5505.	11.3	1
256	Review on Metamaterial Perfect Absorbers and Their Applications to IoT. IEEE Internet of Things Journal, 2021, 8, 4105-4131.	8.7	48
257	Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. IEEE Internet of Things Journal, 2021, 8, 4668-4680.	8.7	9
258	Deep Reinforcement Learning-Based Dynamic Resource Management for Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4925-4934.	11.3	128
259	IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. IEEE Internet of Things Journal, 2021, 8, 3130-3142.	8.7	29
260	A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. IEEE Internet of Things Journal, 2021, 8, 9611-9621.	8.7	34
261	Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. IEEE Internet of Things Journal, 2021, 8, 2900-2909.	8.7	4
262	Deep Reinforcement Learning Based Computation Offloading in Fog Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4978-4987.	11.3	43
263	Task Allocation Strategy for MEC-Enabled IIoTs via Bayesian Network Based Evolutionary Computation. IEEE Transactions on Industrial Informatics, 2021, 17, 3441-3449.	11.3	23
264	INDFORG: Industrial Forgery Detection Using Automatic Rotation Angle Detection and Correction. IEEE Transactions on Industrial Informatics, 2021, 17, 3630-3639.	11.3	16
265	A Scalable and Secure Publish/Subscribe-Based Framework for Industrial IoT. IEEE Transactions on Industrial Informatics, 2021, 17, 3815-3825.	11.3	18
266	Challenges and Opportunities in Securing the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 2985-2996.	11.3	135
267	Towards 5G-Enabled Self Adaptive Green and Reliable Communication in Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5223-5231.	8.0	49
268	REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. IEEE Internet of Things Journal, 2021, 8, 1871-1882.	8.7	8
269	QoS-Guarantee Resource Allocation for Multibeam Satellite Industrial Internet of Things With NOMA. IEEE Transactions on Industrial Informatics, 2021, 17, 2052-2061.	11.3	189
270	SPPS: A Search Pattern Privacy System for Approximate Shortest Distance Query of Encrypted Graphs in IIoT. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 136-150.	9.3	10
271	Operating Systems Support and Network Optimization View of Internet of Things. Lecture Notes in Networks and Systems, 2021, , 845-858.	0.7	0
272	Spatial–temporal out-of-order execution for advanced planning and scheduling in cyber-physical factories. Journal of Intelligent Manufacturing, 2022, 33, 1355-1372.	7.3	8

#	Article	IF	CITATIONS
273	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 391-430.	39.4	27
275	A Framework for Managing Dynamic Routing in Industrial Networks Driven by Software-Defined Networking Technology. IEEE Access, 2021, 9, 74343-74359.	4.2	3
276	3GPP New Radio Release 16: Evolution of 5G for Industrial Internet of Things. IEEE Communications Magazine, 2021, 59, 41-47.	6.1	25
277	The State of IoT Security: Unequivocal Appeal to Cybercriminals, Onerous to Defenders. IEEE Consumer Electronics Magazine, 2022, 11, 59-68.	2.3	9
278	Wireless Characterization and Assessment of an UWB-Based System in Industrial Environments. IEEE Access, 2021, 9, 107824-107841.	4.2	6
279	Industrial IoT: Challenges and Mitigation Policies. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 143-159.	0.7	0
280	Toward Proactive and Efficient DDoS Mitigation in IIoT Systems: A Moving Target Defense Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 2734-2744.	11.3	11
281	Incentive-Driven Task Allocation for Collaborative Edge Computing in Industrial Internet of Things. IEEE Internet of Things Journal, 2022, 9, 706-718.	8.7	17
282	Dynamic Strategic Modeling for Alliance-Driven Data Platforms: The Case of Smart Farming. Lecture Notes in Business Information Processing, 2021, , 92-99.	1.0	2
283	Introduction of a 5G-Enabled Architecture for the Realization of Industry 4.0 Use Cases. IEEE Access, 2021, 9, 25508-25521.	4.2	44
284	Sleep–Wake Sensor Scheduling for Minimizing Aol-Penalty in Industrial Internet of Things. IEEE Internet of Things Journal, 2022, 9, 6404-6417.	8.7	8
285	Federated Transfer Learning for IIoT Devices With Low Computing Power Based on Blockchain and Edge Computing. IEEE Access, 2021, 9, 98630-98638.	4.2	28
286	Grant-Free Communications With Adaptive Period for IIoT: Sparsity and Correlation-Based Joint Channel Estimation and Signal Detection. IEEE Internet of Things Journal, 2022, 9, 4624-4638.	8.7	7
287	Towards a Digital Twin model for Building Energy Management: Case of Morocco. Procedia Computer Science, 2021, 184, 404-410.	2.0	27
288	Blockchain-Empowered Decentralized Horizontal Federated Learning for 5G-Enabled UAVs. IEEE Transactions on Industrial Informatics, 2022, 18, 3582-3592.	11.3	95
289	The contribution of Industry 4.0 technologies to facility management. International Journal of Engineering Business Management, 2021, 13, 184797902110241.	3.7	27
290	Industrial IoT in 5G-and-Beyond Networks: Vision, Architecture, and Design Trends. IEEE Transactions on Industrial Informatics, 2022, 18, 4122-4137.	11.3	77
291	Delegated Anonymous Credentials With Revocation Capability for IoT Service Chains ( <i>DANCIS</i> ). IEEE Internet of Things Journal, 2022, 9, 3729-3742.	8.7	3

#	Article	IF	Citations
292	Literature Review: Real Time Water Quality Monitoring and Management. Advances in Intelligent Systems and Computing, 2021, , 923-929.	0.6	1
293	IoT Ecosystem- A survey on Classification of IoT. , 2021, , .		2
294	Edge Intelligence for Data Handling and Predictive Maintenance in IIOT. IEEE Access, 2021, 9, 49355-49371.	4.2	36
295	Permissioned Blockchain: Securing Industrial IoT Environments. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.7	1
296	Internet of Water Things: A Remote Raw Water Monitoring and Control System. IEEE Access, 2021, 9, 35790-35800.	4.2	26
297	Learning to Charge RF-Energy Harvesting Devices in WiFi Networks. IEEE Systems Journal, 2021, 15, 5516-5525.	4.6	5
298	Localization With One-Bit Passive Radars in Narrowband Internet-of-Things Using Multivariate Polynomial Optimization. IEEE Transactions on Signal Processing, 2021, 69, 2525-2540.	5.3	22
299	Performance impact of network conditions on an IIoT system. , 2021, , .		2
300	Recent Challenges in IoT. Studies in Systems, Decision and Control, 2021, , 65-82.	1.0	0
301	Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. IEEE Internet of Things Journal, 2021, 8, 16337-16348.	8.7	23
302	Enhancing In-Service Tank Maintenance Through Industrial Internet of Things. Advances in Computer and Electrical Engineering Book Series, 2021, , 244-270.	0.3	0
303	Digital Industrial Platforms. Business and Information Systems Engineering, 2021, 63, 181-190.	6.1	43
304	Extensive Review of Cloud Based Internet of Things Architecture and Current Trends. , 2021, , .		5
305	Monitoring on a shoestring: Low cost solutions for digital manufacturing. Annual Reviews in Control, 2021, 51, 374-391.	7.9	22
306	Energy-Efficient Diffusion Kalman Filtering for Multiagent Networks in IoT. IEEE Internet of Things Journal, 2022, 9, 6277-6287.	8.7	6
307	TCDA: Truthful Combinatorial Double Auctions for Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	77
308	Nonlinear Online Multioutput Gaussian Process for Multistream Data Informatics. IEEE Transactions on Industrial Informatics, 2022, 18, 3885-3893.	11.3	5
309	Two-Level Soft RAN Slicing for Customized Services in 5G-and-Beyond Wireless Communications. IEEE Transactions on Industrial Informatics, 2022, 18, 4169-4179.	11.3	10

#	Article	IF	CITATIONS
310	loT- Based Indicator for Industrial Accident Risks. Smart Innovation, Systems and Technologies, 2021, , 148-155.	0.6	0
311	Toward Accurate Anomaly Detection in Industrial Internet of Things Using Hierarchical Federated Learning. IEEE Internet of Things Journal, 2022, 9, 7110-7119.	8.7	65
312	Industrial Internet of Things (IIoT) Applications of Edge and Fog Computing: A Review and Future Directions. Advances in Information Security, 2021, , 293-325.	1.2	38
313	Drive-by-Wi-Fi: Model-Based Control Over Wireless at 1 kHz. IEEE Transactions on Control Systems Technology, 2022, 30, 1078-1089.	5.2	4
315	Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. IEEE Internet of Things Journal, 2021, 8, 16653-16665.	8.7	8
316	Comprehensive Study of Artificial Intelligence Tools in Supply Chain. Lecture Notes in Mechanical Engineering, 2021, , 175-188.	0.4	2
317	Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. IEEE Internet of Things Journal, 2021, 8, 16256-16268.	8.7	32
318	Lightweight Data Compression for Low Energy Consumption in Industrial Internet of Things. , 2021, , .		2
319	Securing Internet of Things: Attacks, Countermeasures and Open Challenges. Advances in Intelligent Systems and Computing, 2021, , 873-885.	0.6	3
321	SIRDAM4.0: A Support Infrastructure for Reliable Data Acquisition and Management in Industry 4.0. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 1605-1620.	4.6	5
322	Blockchain Applications in the Industrial Internet of Things. , 2021, , 41-76.		3
323	Mission Effective Capacityâ€"A Novel Dependability Metric: A Study Case of Multiconnectivity-Enabled URLLC for IIoT. IEEE Transactions on Industrial Informatics, 2022, 18, 4180-4188.	11.3	10
324	Adaptive Physical Layer Selection for Bluetooth 5: Measurements and Simulations. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	3
325	State-to-Noise-Ratio-Based Transmission Scheduling in Wireless Control Systems for IIoT. IEEE Internet of Things Journal, 2022, 9, 4949-4957.	8.7	0
326	Energy-Efficient Convolution Module With Flexible Bit-Adjustment Method and ADC Multiplier Architecture for Industrial IoT. IEEE Transactions on Industrial Informatics, 2022, 18, 3055-3065.	11.3	3
327	Performance Evaluation of Adaptive Autonomous Scheduling Functions for 6TiSCH Networks. IEEE Access, 2021, 9, 127576-127594.	4.2	4
329	A LoRaWAN IoT-Enabled Trash Bin Level Monitoring System. IEEE Transactions on Industrial Informatics, 2022, 18, 786-795.	11.3	29
330	Fault Detection and Classification in Industrial IoT in Case of Missing Sensor Data. IEEE Internet of Things Journal, 2022, 9, 8892-8900.	8.7	22

#	Article	IF	Citations
331	A Privacy-Preserving Cross-Domain Healthcare Wearables Recommendation Algorithm Based on Domain-Dependent and Domain-Independent Feature Fusion. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1928-1936.	6.3	51
332	Product Lifecycle Management (PLM): A Key Enabler in Implementation of Industry 4.0., 2021, , 1-32.		2
333	Assessment of Industrial Internet Platform Application in Manufacturing Enterprises: System Construction and Industrial Practice. IEEE Access, 2021, 9, 103709-103727.	4.2	2
334	SDN-Enabled Resource Orchestration for Industrial IoT in Collaborative Edge-Cloud Networks. IEEE Access, 2021, 9, 115839-115854.	4.2	14
335	A Novel User Pairing Scheme for Non-orthogonal Multiple Access Backscatter Communication. , 2021, , .		2
336	Enhancing SDN WISE with Slicing Over TSCH. Sensors, 2021, 21, 1075.	3.8	14
337	Generating Datasets for Anomaly-Based Intrusion Detection Systems in IoT and Industrial IoT Networks. Sensors, 2021, 21, 1528.	3.8	28
338	Heterogeneous and dependable networks in industry – A survey. Computers in Industry, 2021, 125, 103388.	9.9	40
339	Industrial IoT Using Wavelet Transform. , 0, , .		0
340	Internet of Things (IoT) based Smart Agriculture in India: An Overview. Journal of ISMAC, 2021, 3, 1-15.	2.7	77
341	Power and energy measurement devices: A review, comparison, discussion, and the future of research. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108961.	5.0	14
342	Anomaly detection method based on the deep knowledge behind behavior patterns in industrial components. Application to a hydropower plant. Computers in Industry, 2021, 125, 103376.	9.9	21
343	A Green Data Management Layer in Industrial IoT. IOP Conference Series: Materials Science and Engineering, 2021, 1067, 012131.	0.6	2
344	Factors Affecting Internet of Things (IoT) Adoption in the Yemeni Oil and Gas Sector., 2021,,.		8
345	SAG-EC: Edge Computing Platform Based on Space-Air-Ground Integrated Network., 2021,,.		2
346	A Polishing Robot Force Control System Based on Time Series Data in Industrial Internet of Things. ACM Transactions on Internet Technology, 2021, 21, 1-22.	4.4	4
347	Design of the Intelligent Elderly's Lighting Emotional Interactive Experience System based on Internet of Things. , 2021, , .		0
348	Blockchainâ€Based Reliable Fogâ€Cloud Service Solution for IIoT. Chinese Journal of Electronics, 2021, 30, 359-366.	1.5	3

#	Article	IF	Citations
349	Clinical Study on Electronic Medical Neuroelectric Stimulation Based on the Internet of Things to Treat Epilepsy Patients with Anxiety and Depression. Journal of Healthcare Engineering, 2021, 2021, 1-13.	1.9	3
350	Towards a Domain-Specific Approach Enabling Tool-Supported Model-Based Systems Engineering of Complex Industrial Internet-of-Things Applications. Systems, 2021, 9, 21.	2.3	15
351	Industrial Internet: Architecture, characteristics and implementation challenges., 2021,,.		3
352	A Novel Coverage Optimization Strategy Based on Grey Wolf Algorithm Optimized by Simulated Annealing for Wireless Sensor Networks. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.7	12
353	Optimization of 5G Networks for Smart Logistics. Energies, 2021, 14, 1758.	3.1	37
354	A hybrid DL-driven intelligent SDN-enabled malware detection framework for Internet of Medical Things (IoMT). Computer Communications, 2021, 170, 209-216.	5.1	43
355	Enhanced Clustering and Intelligent Mobile Sink Path Construction for an Efficient Data Gathering in Wireless Sensor Networks. Arabian Journal for Science and Engineering, 2021, 46, 8329-8344.	3.0	10
356	Application of indoor positioning technology in smart home management system. , 2021, , .		2
357	Multiobjective Optimization Method of Coevolution to Intelligent Agricultural Dynamic Services under the Internet of Things Environment. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	1
358	Optimized Analog Multi-Band Carrierless Amplitude and Phase Modulation for Visible Light Communication-Based Internet of Things Systems. Sensors, 2021, 21, 2537.	3.8	8
359	Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT. IEEE Internet of Things Journal, 2021, 8, 5219-5229.	8.7	30
360	Current Progress and Future Prospects of Agriculture Technology: Gateway to Sustainable Agriculture. Sustainability, 2021, 13, 4883.	3.2	84
361	Launching Adversarial Attacks against Network Intrusion Detection Systems for IoT. Journal of Cybersecurity and Privacy, 2021, 1, 252-273.	3.9	30
362	SDN-Enabled Hybrid DL-Driven Framework for the Detection of Emerging Cyber Threats in IoT. Electronics (Switzerland), 2021, 10, 918.	3.1	55
363	Complete Automation of an Energy Consumption Reduction Strategy from a Water Treatment and Distribution Facility, Inside an Industrial Internet of Things-Compliant Proactive Historian Application. Sensors, 2021, 21, 2569.	3.8	4
364	A Survey of Industrial Internet of Things Platforms for Establishing Centralized Data-Acquisition Middleware: Categorization, Experiment, and Challenges. Scientific Programming, 2021, 2021, 1-11.	0.7	4
365	Distributed Antenna System in 3GPP Specified Industrial Environment., 2021,,.		0
366	A novel optimization method for WSN based on mixed matrix decomposition of NMF and 2-SVD-QR. Ad Hoc Networks, 2021, 115, 102454.	5.5	4

#	Article	IF	CITATIONS
367	Artificial-Intelligence-Driven Customized Manufacturing Factory: Key Technologies, Applications, and Challenges. Proceedings of the IEEE, 2021, 109, 377-398.	21.3	85
368	Bibliometric and content analysis of the internet of things research: a social science perspective. Online Information Review, 2021, 45, 1148-1166.	3.2	19
369	Industry 4.0 smart reconfigurable manufacturing machines. Journal of Manufacturing Systems, 2021, 59, 481-506.	13.9	147
371	Cooperative PSK constellation design and power allocation for massive MIMO uplink communications., 2021, 111, 102935.		2
372	A lightweight and provable secure identity-based generalized proxy signcryption (IBGPS) scheme for Industrial Internet of Things (IIoT). Journal of Information Security and Applications, 2021, 58, 102625.	2.5	27
373	A survey of low-latency transmission strategies in software defined networking. Computer Science Review, 2021, 40, 100386.	15.3	16
374	Data Transmission from ATEX Boxes by Means of LoRa Technology for Industrial Internet of Things (IIoT) Applications. , 2021, , .		1
375	Internet of Things Meet Internet of Threats: New Concern Cyber Security Issues of Critical Cyber Infrastructure. Applied Sciences (Switzerland), 2021, 11, 4580.	2.5	41
376	Searchable Encryption with Access Control in Industrial Internet of Things (IIoT). Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	12
378	News Information Platform Optimization Based on the Internet of Things. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	1.2	4
379	Demo Abstract: A Full-Blown 6TiSCH Network with Partition-based Resource Management for Large-Scale Real-Time Wireless Applications. , 2021, , .		0
380	APaS: An Adaptive Partition-Based Scheduling Framework for 6TiSCH Networks. , 2021, , .		5
381	A Novel Software Architecture Solution with a Focus on Long-Term IoT Device Security Support. Applied Sciences (Switzerland), 2021, 11, 4955.	2.5	4
382	Towards a Real-Time Wireless Powered Communication Network: Design, Implementation and Evaluation., 2021,,.		3
383	SNR-based Reinforcement Learning Rate Adaptation for Time Critical Wi-Fi Networks: Assessment through a Calibrated Simulator. , 2021, , .		0
384	In-network generalized trustworthy data collection for event detection in cyber-physical systems. PeerJ Computer Science, 2021, 7, e504.	4.5	0
385	mOptical Sensing for the Internet of Things: A Smartphoneâ€Controlled Platform for Temperature Monitoring. Advanced Photonics Research, 2021, 2, 2000211.	3.6	28
386	A sentence-level text adversarial attack algorithm against IIoT based smart grid. Computer Networks, 2021, 190, 107956.	5.1	8

#	Article	IF	CITATIONS
387	Fully Constant-Size CP-ABE with Privacy-Preserving Outsourced Decryption for Lightweight Devices in Cloud-Assisted IoT. Security and Communication Networks, 2021, 2021, 1-16.	1.5	5
388	Design and implementation of smart pressure sensor for automotive applications. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109184.	5.0	19
389	Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. IEEE Internet of Things Journal, 2021, 8, 7252-7269.	8.7	17
390	Demo Abstract: RT-WPCN: A Multi-hop Real-time Wireless Powered Communication Network. , 2021, , .		0
391	Real Time Remote Monitoring, Control and Reporting Dashboard System to Avoid Industrial Disasters Using Industrial IOT. Advances in Science and Technology, 0, , .	0.2	0
393	Digital twin to improve the virtual-real integration of industrial IoT. Journal of Industrial Information Integration, 2021, 22, 100196.	6.4	72
394	What Do Practitioners Discuss about IoT and Industry 4.0 Related Technologies? Characterization and Identification of IoT and Industry 4.0 Categories in Stack Overflow Discussions. Internet of Things (Netherlands), 2021, 14, 100364.	7.7	16
395	Turning old into new: adding LoRaWAN connectivity to PLC in brownfield installations., 2021,,.		3
396	Industrial Vision Optimization Distributed Strategy based on Edge Intelligence Collaboration., 2021,,.		0
397	Context-Aware Fog Computing Implementation for Industrial Internet of Things. , 2021, , .		1
398	An Overview of Machine Learning-Based Energy-Efficient Routing Algorithms in Wireless Sensor Networks. Electronics (Switzerland), 2021, 10, 1539.	3.1	30
399	Task offloading and resource allocation algorithm based on mobile edge computing in Internet of Things environment. Journal of Engineering, 2021, 2021, 500-509.	1.1	6
400	BER Analysis of a Backscatter Communication System With Non-Orthogonal Multiple Access. IEEE Transactions on Green Communications and Networking, 2021, 5, 574-586.	5.5	24
401	A review of logistics Internet-of-Things: Current trends and scope for future research. Journal of Industrial Information Integration, 2021, 22, 100194.	6.4	67
402	MAC for Machine-Type Communications in Industrial IoTâ€"Part I: Protocol Design and Analysis. IEEE Internet of Things Journal, 2021, 8, 9945-9957.	8.7	22
403	Determining the Degree of Characteristics for Internet of Healthcare Devices Using Fuzzy ANP. Scientific Programming, 2021, 2021, 1-11.	0.7	1
404	Autonomous Haulage Systems in the Mining Industry: Cybersecurity, Communication and Safety Issues and Challenges. Electronics (Switzerland), 2021, 10, 1357.	3.1	17
405	Enhancing the Performance of Industry 4.0 Scenarios via Serverless Processing at the Edge., 2021,,.		3

#	Article	IF	CITATIONS
406	Deep-Green: A Dispersed Energy-Efficiency Computing Paradigm for Green Industrial IoT. IEEE Transactions on Green Communications and Networking, 2021, 5, 750-764.	5.5	33
407	Collaborative Industrial Internet of Things for Noise Mapping: Prospects and Research Opportunities. IEEE Industrial Electronics Magazine, 2021, 15, 52-64.	2.6	5
408	Online fault diagnosis for smart machines embedded in Industry 4.0 manufacturing systems: A labeled Petri net-based approach. IFAC Journal of Systems and Control, 2021, 16, 100146.	1.7	6
409	Secure and secret cooperation in robot swarms. Science Robotics, 2021, 6, .	17.6	28
411	Differential Privacy for Industrial Internet of Things: Opportunities, Applications, and Challenges. IEEE Internet of Things Journal, 2021, 8, 10430-10451.	8.7	74
412	Improved Ensemble-Learning Algorithm for Predictive Maintenance in the Manufacturing Process. Applied Sciences (Switzerland), 2021, 11, 6832.	2.5	15
413	Blockchain technology for the industrial Internet of Things: A comprehensive survey on security challenges, architectures, applications, and future research directions. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4337.	3.9	39
414	Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. IEEE Internet of Things Journal, 2021, 8, 11016-11040.	8.7	102
415	Perception of IOT: Application and Challenges. , 2021, , .		5
416	Research on the Realization and Application of Intelligent IoT Platform for Electrical Equipment under Industrial Internet. Journal of Physics: Conference Series, 2021, 1982, 012078.	0.4	2
417	An Edge-IoT Architecture and Regression Techniques Applied to an Agriculture Industry Scenario. Lecture Notes in Networks and Systems, 2022, , 92-102.	0.7	0
418	Active disturbance rejection-based industrial cascade control plant with cloud monitoring. Journal of Engineering, Design and Technology, 2022, 20, 1280-1296.	1.7	1
419	Multiple Access-Enabled Relaying with Piece-Wise and Forward NOMA: Rate Optimization under Reliability Constraints. Sensors, 2021, 21, 4783.	3.8	2
420	WiFi HaLow for Long-Range and Low-Power Internet of Things: System on Chip Development and Performance Evaluation. IEEE Communications Magazine, 2021, 59, 101-107.	6.1	18
421	Synchronization-oriented reconfiguration of FPAI under graduation intelligent manufacturing system in the COVID-19 pandemic and beyond. Journal of Manufacturing Systems, 2021, 60, 893-902.	13.9	16
422	Real-Time Model Predictive Control of an Industrial Internet Platform. Journal of Advanced Engineering Trends, 2021, 40, 71-83.	0.4	1
423	Spherical fuzzy decision making method based on combined compromise solution for IIoT industry evaluation. Artificial Intelligence Review, 2022, 55, 1857-1886.	15.7	8
424	A Survey on Battery-Less RFID-Based Wireless Sensors. Micromachines, 2021, 12, 819.	2.9	20

#	Article	IF	CITATIONS
425	Deep Q-Learning and Preference Based Multi-Agent System for Sustainable Agricultural Market. Sensors, 2021, 21, 5276.	3.8	10
426	Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. IEEE Internet of Things Journal, 2021, 8, 11860-11876.	8.7	11
427	Industry 4.0: Latent Dirichlet Allocation and clustering based theme identification of bibliography. Engineering Applications of Artificial Intelligence, 2021, 103, 104280.	8.1	13
428	Cloud–Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. IEEE Internet of Things Journal, 2021, 8, 12578-12587.	8.7	72
429	SACR: A Stability-Aware Cluster-Based Routing Protocol for Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2021, 21, 17350-17359.	4.7	18
430	Constructing Sports Multi-Index Data Analysis Based on 5G IoT Technology. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	0
431	Selection of Devices Based on Multicriteria for Mobile Data in Internet of Things Environment. Mobile Information Systems, 2021, 2021, 1-7.	0.6	4
432	Deep Reinforcement Learning Based Resource Management for DNN Inference in Industrial IoT. IEEE Transactions on Vehicular Technology, 2021, 70, 7605-7618.	6.3	69
433	Suitability of NB-IoT for Indoor Industrial Environment: A Survey and Insights. Sensors, 2021, 21, 5284.	3.8	21
434	EnvelopeNet: A robust convolutional neural network with optimal kernels for intelligent fault diagnosis of rolling bearings. Measurement: Journal of the International Measurement Confederation, 2021, 180, 109563.	<b>5.</b> O	12
435	Internet of Things (IoT) Technology Research in Business and Management Literature: Results from a Co-Citation Analysis. Journal of Theoretical and Applied Electronic Commerce Research, 2021, 16, 2073-2090.	5.7	21
437	A survey on the role of Internet of Things for adopting and promoting Agriculture 4.0. Journal of Network and Computer Applications, 2021, 187, 103107.	9.1	92
438	Toward Deep Transfer Learning in Industrial Internet of Things. IEEE Internet of Things Journal, 2021, 8, 12163-12175.	8.7	31
439	UEE-RPL: A UAV-Based Energy Efficient Routing for Internet of Things. IEEE Transactions on Green Communications and Networking, 2021, 5, 1333-1344.	5.5	18
440	Blockchain Technology for Trustworthy Operations in the Management of Strategic Grain Reserves. Foods, 2021, 10, 2323.	4.3	10
441	Towards a Holistic DLT Architecture forÂlloT: Improved DAG for Production Lines. Lecture Notes in Networks and Systems, 2022, , 179-188.	0.7	3
442	Dynamic Scheduling Framework of the Flexible Mixed-Model Assembly Line Based on the Internet of Manufacturing Things. Journal of Physics: Conference Series, 2021, 2025, 012073.	0.4	0
443	ĐΫĐĐžĐœĐ°Đ¡Đ»ĐžĐ'аЙ ІĐĐ¢Đ•ĐĐĐ•Đ¢ ĐЕЧЕЙ Đ¢Đ•Đ™ĐžĐ"Đž Đ—ĐĐ¡Đ¢ĐžĐ¡Đ£Đ'ĐĐĐа Đ£ Đ'Đ	)† <del>100.2</del> D•0	<sub> </sub> - <b>:</b> ]ŸĐОР  •] _

#	Article	IF	CITATIONS
444	Social class particle swarm optimization for variable-length Wireless Sensor Network Deployment. Applied Soft Computing Journal, 2021, 113, 107926.	7.2	14
445	Performance Analysis of LoRaWAN in Industrial Scenarios. IEEE Transactions on Industrial Informatics, 2021, 17, 6241-6250.	11.3	22
446	Energy-efficient user association with load-balancing for cooperative IIoT network within B5G era. Journal of Network and Computer Applications, 2021, 189, 103110.	9.1	8
447	Measuring the effect of automatically authored video aid on assembly time for procedural knowledge transfer among operators in adaptive assembly stations. International Journal of Production Research, $0$ , $1$ - $16$ .	7.5	4
448	Towards a Holistic DLT Architecture forÂlloT. Lecture Notes in Networks and Systems, 2022, , 363-366.	0.7	0
449	Artificial Intelligence Applied to Battery Research: Hype or Reality?. Chemical Reviews, 2022, 122, 10899-10969.	47.7	153
450	Analysis of Industry 4.0 challenges using best worst method: A case study. Computers and Industrial Engineering, 2021, 159, 107487.	6.3	56
451	Automated and Controlled Data Collection Using Industrial IoT System for Smart Maintenance. TehniÄki Glasnik, 2021, 15, 401-409.	0.7	O
452	Functional Safety Networks and Protocols in the Industrial Internet of Things Era. Sensors, 2021, 21, 6073.	3.8	15
453	The Road to Accountable and Dependable Manufacturing. Automation, 2021, 2, 202-219.	2.3	8
454	Towards scalable, secure, and smart mission-critical IoT systems. , 2021, , .		5
455	Towards Self-X cognitive manufacturing network: An industrial knowledge graph-based multi-agent reinforcement learning approach. Journal of Manufacturing Systems, 2021, 61, 16-26.	13.9	92
456	Toward Secure Data Fusion in Industrial IoT Using Transfer Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 7114-7122.	11,3	33
457	Sparse and Structured Function-on-Function Quality Predictive Modeling by Hierarchical Variable Selection and Multitask Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 6720-6730.	11.3	2
458	Network Traffic Prediction in Industrial Internet of Things Backbone Networks: A Multitask Learning Mechanism. IEEE Transactions on Industrial Informatics, 2021, 17, 7123-7132.	11.3	22
459	Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. IEEE Internet of Things Journal, 2021, 8, 14746-14755.	8.7	16
460	Construction of a smart management system for physical health based on IoT and cloud computing with big data. Computer Communications, 2021, 179, 183-194.	5.1	11
461	Enabling Secure Authentication in Industrial IoT With Transfer Learning Empowered Blockchain. IEEE Transactions on Industrial Informatics, 2021, 17, 7725-7733.	11.3	47

#	Article	IF	CITATIONS
462	A Novel Image Steganography Method for Industrial Internet of Things Security. IEEE Transactions on Industrial Informatics, 2021, 17, 7743-7751.	11.3	67
463	Energy-aware system design for batteryless LPWAN devices in IoT applications. Ad Hoc Networks, 2021, 122, 102625.	5.5	23
464	A parallel genetic algorithm for multi-objective flexible flowshop scheduling in pasta manufacturing. Computers and Industrial Engineering, 2021, 161, 107659.	6.3	16
465	Energy-Efficient Industrial Internet of Things: Overview and Open Issues. IEEE Transactions on Industrial Informatics, 2021, 17, 7225-7237.	11.3	84
466	TrustFed: A Framework for Fair and Trustworthy Cross-Device Federated Learning in IIoT. IEEE Transactions on Industrial Informatics, 2021, 17, 8485-8494.	11.3	56
467	Looking back to look forward: Lessons learnt from cyber-attacks on Industrial Control Systems. International Journal of Critical Infrastructure Protection, 2021, 35, 100464.	4.6	53
468	XSRU-IoMT: Explainable simple recurrent units for threat detection in Internet of Medical Things networks. Future Generation Computer Systems, 2022, 127, 181-193.	7.5	58
469	Service-oriented industrial internet of things gateway for cloud manufacturing. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102217.	9.9	53
470	SecureDeepNetâ€IoT: A deep learning application for invasion detection in industrial Internet of Things sensing systems. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4228.	3.9	12
471	Hybrid Deep Model for Human Behavior Understanding on Industrial Internet of Video Things. IEEE Transactions on Industrial Informatics, 2022, 18, 7000-7008.	11.3	13
472	Integration of Blockchain and IoT (B-IoT): Architecture, Solutions, & Samp; Future Research Direction. IOP Conference Series: Materials Science and Engineering, 2021, 1022, 012103.	0.6	10
473	Federated Learning for Industrial Internet of Things in Future Industries. IEEE Wireless Communications, 2021, 28, 192-199.	9.0	39
474	Reliable Federated Learning Systems Based on Intelligent Resource Sharing Scheme for Big Data Internet of Things. IEEE Access, 2021, 9, 108091-108100.	4.2	9
475	Optimized Composition for Multiple User Service Requests Based on Edge-Cloud Collaboration. IEEE Access, 2021, 9, 94862-94878.	4.2	3
476	Present and Future of Network Security Monitoring. IEEE Access, 2021, 9, 112744-112760.	4.2	18
477	Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. IEEE Internet of Things Journal, 2021, 8, 17678-17690.	8.7	10
478	A Survey of Honeypots and Honeynets for Internet of Things, Industrial Internet of Things, and Cyber-Physical Systems. IEEE Communications Surveys and Tutorials, 2021, 23, 2351-2383.	39.4	87
479	GT-Chain: A Fair Blockchain for Intelligent Industrial IoT Applications. IEEE Transactions on Network Science and Engineering, 2022, 9, 3244-3257.	6.4	3

#	Article	IF	CITATIONS
480	Synchronization of Shop-Floor Logistics and Manufacturing Under IIoT and Digital Twin-Enabled Graduation Intelligent Manufacturing System. IEEE Transactions on Cybernetics, 2023, 53, 2005-2016.	9.5	25
481	Cyber-Physical Systems for Micro-/Nano-assembly Operations: a Survey. Current Robotics Reports, 2021, 2, 33-41.	7.9	3
482	UAV-Aided Ultra-Reliable Low-Latency Computation Offloading in Future IoT Networks. IEEE Transactions on Communications, 2021, 69, 6838-6851.	7.8	34
483	Parallel Route Optimization and Service Assurance in Energy-Efficient Software-Defined Industrial IoT Networks. IEEE Access, 2021, 9, 24682-24696.	4.2	20
484	Internet of Things (IoT) in Agriculture. Advances in Data Mining and Database Management Book Series, 2021, , 88-117.	0.5	2
485	Blockchain-Based Industrial Internet of Things for the Integration of Industrial Process Automation Systems. Advances in Data Mining and Database Management Book Series, 2021, , 163-186.	0.5	0
486	A Novel Enhanced Quantum PSO for Optimal Network Configuration in Heterogeneous Industrial IoT. IEEE Access, 2021, 9, 134022-134036.	4.2	23
487	Deep Reinforcement Learning-Based Service-Oriented Resource Allocation in Smart Grids. IEEE Access, 2021, 9, 77637-77648.	4.2	5
488	An Enhanced CoAP Scheme Using Fuzzy Logic With Adaptive Timeout for IoT Congestion Control. IEEE Access, 2021, 9, 58967-58981.	4.2	9
489	Core-GAE: Toward Generation of IoT Networks. IEEE Internet of Things Journal, 2022, 9, 9241-9248.	8.7	2
490	A Hybrid Deep Random Neural Network for Cyberattack Detection in the Industrial Internet of Things. IEEE Access, 2021, 9, 55595-55605.	4.2	52
491	A Review of Cyber Securities in Smart Grid Technology. , 2021, , .		14
492	Variation Model Abstraction and Adaptive Control Based on Element Description Method Toward Smart Factory. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 489-497.	6.8	3
493	Fast Node Clustering Based on an Improved Birch Algorithm for Data Collection Towards Software-Defined Underwater Acoustic Sensor Networks. IEEE Sensors Journal, 2021, 21, 25480-25488.	4.7	7
495	Architecture Drivers for Trustworthy Interoperability in Industry 4.0. IEEE Systems Journal, 2021, 15, 5454-5463.	4.6	4
496	From Suppliers to Complementors: Motivational Factors for Joining Industrial Internet of Things Platform Ecosystems. , 0, , .		2
497	Survey on Delegated and Self-Contained Authorization Techniques in CPS and IoT. IEEE Access, 2021, 9, 98169-98184.	4.2	10
498	Synchronous and Asynchronous Requirements for Digital Twins Applications in Industry 4.0., 2021, , .		3

#	Article	IF	CITATIONS
499	All-Polarized Wideband Rectenna With Enhanced Efficiency Within Wide Input Power and Load Ranges. IEEE Transactions on Industrial Electronics, 2022, 69, 7470-7480.	7.9	11
500	Using IoT to Dynamically Test Smart Connected Devices. MATEC Web of Conferences, 2021, 343, 03004.	0.2	0
501	A Learning-Based Fast Uplink Grant for Massive IoT via Support Vector Machines and Long Short-Term Memory. IEEE Internet of Things Journal, 2022, 9, 3889-3898.	8.7	14
502	Average Rate and Error Probability Analysis in Short Packet Communications Over RIS-Aided URLLC Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 10320-10334.	6.3	36
503	Matrix profile implementation perspective in Industrial Internet of Things production maintenance application. Journal of Physics: Conference Series, 2021, 1736, 012036.	0.4	4
504	Towards design and implementation of Industry 4.0 for food manufacturing. Neural Computing and Applications, 2023, 35, 23753-23765.	5.6	29
505	Requirements, Protocols, and Security Challenges in Wireless Sensor Networks: An Industrial Perspective., 2020,, 683-713.		47
506	Internet of Things Applications and Use Cases in the Era of Industry 4.0. Computer Communications and Networks, 2019, , 279-298.	0.8	5
507	The Manufacturing Planning and Control System: A Journey Towards the New Perspectives in Industry 4.0 Architectures. Profiles in Operations Research, 2020, , 193-216.	0.4	5
508	A Model Management Platform for Industry 4.0 – Enabling Management of Machine Learning Models in Manufacturing Environments. Lecture Notes in Business Information Processing, 2020, , 403-417.	1.0	11
509	Modulating the percolation network of polymer nanocomposites for flexible sensors. Journal of Applied Physics, 2020, 128, 220901.	2.5	18
510	On TOA-based Ranging over mmWave 5G for Indoor Industrial IoT Networks. , 2020, , .		5
511	Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. IEEE Internet of Things Journal, 2021, 8, 16452-16472.	8.7	8
512	Industrial Pollution Areas Detection and Location via Satellite-Based IIOT. IEEE Transactions on Industrial Informatics, 2020, , 1-1.	11.3	11
513	Toward Smart Manufacturing Using Spiral Digital Twin Framework and Twinchain. IEEE Transactions on Industrial Informatics, 2022, 18, 1359-1366.	11.3	39
514	LiS: Lightweight Signature Schemes for Continuous Message Authentication in Cyber-Physical Systems. , 2020, , .		10
515	An Experimental Analysis of Security Vulnerabilities in Industrial IoT Devices. ACM Transactions on Internet Technology, 2020, 20, 1-24.	4.4	46
516	Complexity Effective Frequency and Sidelink Synchronization Algorithm for LTE Device-to-Device Communication Systems. Computers, Materials and Continua, 2020, 62, 443-458.	1.9	3

#	Article	IF	CITATIONS
517	When Wireless Communication Responds to COVID-19: Combating the Pandemic and Saving the Economy. Frontiers in Communications and Networks, 2020, $1$ , .	3.0	38
518	Increasing Profitability and Monitoring Environmental Performance: A Case Study in the Agri-Food Industry through an Edge-IoT Platform. Sustainability, 2021, 13, 283.	3.2	17
519	Fuzzy-Decision Algorithms for Cyber Security Analysis of Advanced SCADA and Remote Monitoring Systems. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 131-155.	0.5	4
520	Optimizing Federated Learning in Distributed Industrial IoT: A Multi-Agent Approach. IEEE Journal on Selected Areas in Communications, 2021, 39, 3688-3703.	14.0	84
521	Blockchain for Edge of Things: Applications, Opportunities, and Challenges. IEEE Internet of Things Journal, 2022, 9, 964-988.	8.7	90
522	An Energy-Efficient Multilevel Secure Routing Protocol in IoT Networks. IEEE Internet of Things Journal, 2022, 9, 10539-10553.	8.7	8
523	Multicast Scheduling in SDN WISE to Support Mobile Nodes in Industrial Wireless Sensor Networks. IEEE Access, 2021, 9, 141651-141666.	4.2	8
524	Balanced-Offset Joint Acquisition of Physical Cell Identity and Radio Frame Number for NB-IoT Communication Systems. IEEE Internet of Things Journal, 2022, 9, 8669-8680.	8.7	2
525	QoS-Aware Heterogeneous Data Transmission Mechanism for Industrial IoT Systems. , 2021, , .		0
526	Tuning of a simulation model for the assessment of Functional Safety over Wi-Fi. , 2021, , .		2
527	A Semi-Supervised Bayesian Anomaly Detection Technique for Diagnosing Faults in Industrial IoT Systems., 2021,,.		1
528	Analytics of IIoT Data Using a NoSQL Datastore. , 2021, , .		1
529	Packet Scheduling Algorithm Based on Hybrid System Theory in the Industrial Internet of Things. , 2021, , .		2
530	Increasing key randomness in physical layer key generation based on RSSI in LoRaWAN devices. Physical Communication, 2021, 49, 101480.	2.1	4
531	Protocol-Based and Hybrid Access Control for the IoT: Approaches and Research Opportunities. Sensors, 2021, 21, 6832.	3.8	7
532	IoT Helper: A Lightweight and Extensible Framework for Fast-Prototyping IoT Architectures. Applied Sciences (Switzerland), 2021, 11, 9670.	2.5	2
533	Analysis of Security Issues and Countermeasures for the Industrial Internet of Things. Applied Sciences (Switzerland), 2021, 11, 9393.	2.5	30
534	A GEMMA-GRAFCET Generator for the Automation Software of Smart Manufacturing Systems. Machines, 2021, 9, 232.	2.2	2

#	Article	IF	Citations
535	IoT Sistemlerde Sınır Bilişim Destekli Anomali Tespiti. European Journal of Science and Technology, 0, , .	0.5	0
536	A decentralized strongly secure attribute-based encryption and authentication scheme for distributed Internet of Mobile Things. Computer Networks, 2021, 201, 108553.	5.1	11
537	Entropy of complex manufacturing networks as a metric of flexibility. Journal of Industrial Information Integration, 2021, , 100285.	6.4	0
538	Achieving Cognitive Mass Personalization via the Self-X Cognitive Manufacturing Network: An Industrial Knowledge Graph- and Graph Embedding-Enabled Pathway. Engineering, 2023, 22, 14-19.	6.7	20
539	Cognizant computing + transformative marketing: an intelligent solution for sustainable business development. Business Process Management Journal, 2021, 27, 1926-1934.	4.2	0
540	An SDN-Enabled Architecture for IT/OT Converged Networks: A Proposal and Qualitative Analysis under DDoS Attacks. Future Internet, 2021, 13, 258.	3.8	7
541	Preparing Datasets of Surface Roughness for Constructing Big Data from the Context of Smart Manufacturing and Cognitive Computing. Big Data and Cognitive Computing, 2021, 5, 58.	4.7	9
542	A cyclic prefix based secure side-channel (CP-SSC) over OFDM for LTE D2D sidelink communication. Physical Communication, 2021, 49, 101478.	2.1	0
543	FAIR sensor services - Towards sustainable sensor data management. Measurement: Sensors, 2021, 18, 100206.	1.7	9
544	Industrial Internet of Things as a Challenge for Higher Education. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	9
545	New Perspectives on Industrial Engineering Education. Advances in Civil and Industrial Engineering Book Series, 2019, , 1-19.	0.2	0
546	Deploying W3C Web of Things-Based Interoperable Mash-up Applications for Industry 4.0: A Testbed. Lecture Notes in Computer Science, 2019, , 3-14.	1.3	5
547	Multiprocessor Scheduling meets the Industrial Wireless. U Porto Journal of Engineering, 2019, 5, 59-76.	0.4	3
549	Industry 4.0: current trend and future scope for further research in High Performance Manufacturing., 0,,.		0
550	Industry 4.0 in Emerging Economies. Advances in Civil and Industrial Engineering Book Series, 2020, , 31-48.	0.2	4
551	Application and improvement of sequence alignment algorithms for intrusion detection in the Internet of Things. , 2020, , .		3
552	Blockchain-based Bonus-penalty Access Control Strategy for IoT Service in Cloud Radio Over Fiber Network. , 2020, , .		1
553	Application of Virtualization Technologies in Novel Industrial Automation: Catalyst or Show-Stopper?., 2020,,.		5

#	Article	IF	Citations
554	Secure and Energy-Efficient Data Transmission. Advances in Intelligent Systems and Computing, 2021, , 1311-1322.	0.6	3
555	An aggregated-tasks oriented manufacturing services scheduling toward industrial Internet platforms. , 2020, , .		0
556	A Decentralized Structure for the Digital Shadows of Internet of Production. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2021, , 179-186.	0.6	1
557	Mass personalization strategy under Industrial Internet of Things: A case study on furniture production. Advanced Engineering Informatics, 2021, 50, 101439.	8.0	13
558	Enabling Distributed Intelligence with Ferroelectric Multifunctionalities. Advanced Science, 2022, 9, e2103842.	11.2	15
559	Multi-Link Scheduling Algorithm of LLC Protocol in Heterogeneous Vehicle Networks Based on Environment and Vehicle-Risk-Field Model. IEEE Access, 2020, 8, 224211-224223.	4.2	2
560	Wireless Communication for the Industrial IoT. , 2020, , 57-94.		6
561	lloT Based Hierarchical Data Distribution Strategy over Edge and End Device., 2020,,.		1
562	Trusted Industrial Modbus Firewall for Critical Infrastructure Systems. , 2020, , .		4
563	Dynamic Resource Management in Real-Time Wireless Networks. , 2021, , 131-156.		1
565	Wireless Technology and Protocol for IIoT and Digital Twins. , 2020, , .		7
566	Modelling Industrial IoT System Complexity. , 2020, , .		3
567	An Optimal Resource Allocation Method for IIoT Network. , 2021, , .		8
568	A Secure Cloud Enabled Indoor Hydroponic System Via ThingsSentral IoT Platform., 2020,,.		4
569	Internet of Things (IoT) in Agriculture: The Idea of Making the Fields Talk. Engineering International, 2020, 8, 87-100.	0.9	4
570	A Model for Evaluating HR Analytics Critical Success Factors in Industry 5.0. Advances in Logistics, Operations, and Management Science Book Series, 2022, , 136-149.	0.4	0
571	IIoT Framework Based ML Model to Improve Automobile Industry Product. Intelligent Automation and Soft Computing, 2022, 31, 1435-1449.	2.1	11
572	Certificateless signature schemes in Industrial Internet of Things: A comparative survey. Computer Communications, 2022, 181, 116-131.	5.1	18

#	Article	IF	CITATIONS
573	SDN Enhanced Resource Orchestration of Containerized Edge Applications for Industrial IoT. IEEE Access, 2020, 8, 229117-229131.	4.2	18
574	A Taxonomy of Industrial IoT Platforms' Architectural Features. Lecture Notes in Information Systems and Organisation, 2021, , 404-421.	0.6	4
575	Evaluation of OPC-UA communication in an autonomous advanced manufacturing cell implementation. Gestão & Produção, 2020, 27, .	0.5	5
576	Real-Time Data Analytics in Internet of Things Systems. , 2020, , 1-28.		3
577	Towards Digital Engineering The Advent of Digital Systems Engineering. International Journal of Systems Engineering, 2020, 10, 1.	0.5	2
579	Review of Trends in Automatic Human Activity Recognition in Vehicle Based in Synthetic Data. Lecture Notes in Computer Science, 2020, , 368-376.	1.3	1
580	Blockchain-Based Management of Strategic Grain Reserves. SSRN Electronic Journal, 0, , .	0.4	0
581	Control Structure with Dual Acceleration Feedback for Positioning Machine with Semi-Closed Servo System. IEEJ Journal of Industry Applications, 2022, 11, 351-358.	1.1	2
582	Detecting Out-Of-Control Sensor Signals in Sheet Metal Forming using In-Network Computing. , 2021, , .		10
583	Trustworthy intelligent industrial monitoring architecture for early event detection by exploiting social IoT., 2020,,.		5
584	How the Data Provided by IIoT Are Utilized in Enterprise Resource Planning: A Multiple-Case Study of Three Change Projects. , $0$ , , .		0
585	HSA-SPC: Hybrid Spectrum Access with Spectrum Prediction and Cooperation for Performance Enhancement of Multiuser Cognitive Radio Network. Computer Networks, 2022, 203, 108596.	5.1	2
586	A novel intelligent manufacturing mode with human-cyber-physical collaboration and fusion in the non-ferrous metal industry. International Journal of Advanced Manufacturing Technology, 2022, 119, 549-569.	3.0	4
587	The Current Status and Developing Trends of Industry 4.0: a Review. Information Systems Frontiers, 0, , 1.	6.4	34
588	A secure and flexible edge computing scheme for Al-driven industrial IoT. Cluster Computing, 2023, 26, 283-301.	5.0	4
589	Task Offloading Based on Edge Computing Considering Overhead and Load Balancing in Industrial Internet of Things. , 2020, , .		3
590	Fault-Tolerance in Cyber-Physical Systems: Literature Review and Challenges. , 2020, , .		4
591	Social behaviorism model for interactions management in Industrial IoT. , 2020, , .		2

#	Article	IF	Citations
592	Enhanced security in industrial internet of things networks using latency based fingerprinting. , 2020, , .		1
593	Wireless Technologies and Applications for Industrial Internet of Things: A Review. Advances in Intelligent Systems and Computing, 2021, , 505-516.	0.6	5
594	A Multi-Ray Analysis of LOS V2V Links for Multiple Antennas with Ground Reflection. , 2020, , .		9
595	An Industrial PaaS Platform Based on E-cloud. , 2020, , .		0
596	Development of the Industrial Internet of Things in the Russian Economy. , 2020, , .		0
597	Peculiarities of Development of Industrial Internet of Things in the context of Russian economy. , 2020, , .		0
598	IIOT Within The Architecture Of The Manufacturing Company. , 2020, , .		6
599	Cross-Layer Device Authentication With Quantum Encryption for 5G Enabled IIoT in Industry 4.0. IEEE Transactions on Industrial Informatics, 2022, 18, 6368-6378.	11.3	42
600	Deep Reinforcement Learning for Securing Software-Defined Industrial Networks With Distributed Control Plane. IEEE Transactions on Industrial Informatics, 2022, 18, 4275-4285.	11.3	6
601	Modelling protocol gateways for cyber-physical systems using Architecture Analysis & Design Language. Procedia CIRP, 2021, 104, 1339-1344.	1.9	0
602	Industrial Internet of Things: Smart Factory. Wireless Networks, 2021, , 11-61.	0.5	0
603	Towards differential access control and privacy-preserving for secure media data sharing in the cloud. Computers and Security, 2022, 113, 102553.	6.0	12
604	Water quality prediction on a Sigfox-compliant IoT device: The road ahead of WaterS. Ad Hoc Networks, 2022, 126, 102749.	5.5	12
605	Research on UWB/BLE-based Fusion Indoor Positioning Algorithm and System Application. , 2021, , .		5
606	Accelerating Low-Cost Edge-Based Real-Time Video Analytics using Task Scheduling. , 2021, , .		2
607	Cooperative Vehicle Platoon Intra-communications over Space-Time Correlated Rice fading Channels with co-channel Interference., 2021,,.		0
608	Advanced Data Analytics Platform for Manufacturing Companies. , 2021, , .		0
609	On Analysis of Security and Elasticity Dependency in IIoT Platform Services., 2021,,.		0

#	Article	IF	CITATIONS
610	AloT-based Audio Recognition System for Smart Home Applications., 2021,,.		2
611	Manufacturing Resource Semantic Modeling & Description Towards Virtual Reorganization of Production Line Based on the IIoT., 2021,,.		0
612	A Preliminary Prototype Based on Biological Mimicry for Hardware Data Acquisition., 2021,,.		O
613	Systems and Monitoring Apparata Based on Reflectometric Techniques for Enhanced Revealing. , 2021, , .		0
614	Challenges in the Organization of a Wireless Network in Complex Industrial Scenario. , 2021, , .		0
615	Enabling Industrial Motion Control through IIoT Multi-Agent Communication. , 2021, , .		2
616	Triple Band Vivaldi Antenna for Construction Monitoring Based on the IIoT Systems. , 2021, , .		1
617	Editorial: Big Data Management in Industry 4.0. Frontiers in Big Data, 2021, 4, 788491.	2.9	3
618	Federated Transfer Learning for Authentication and Privacy Preservation Using Novel Supportive Twin Delayed DDPG (S-TD3) Algorithm for IIoT. Sensors, 2021, 21, 7793.	3.8	29
619	Selecting industrial IoT Platform for digital servitisation: a framework integrating platform leverage practices and cloud HBWM-TOPSIS approach. International Journal of Production Research, 2023, 61, 4022-4044.	<b>7.</b> 5	15
620	Deep Learning for the Industrial Internet of Things (IIoT): A Comprehensive Survey of Techniques, Implementation Frameworks, Potential Applications, and Future Directions. Sensors, 2021, 21, 7518.	3.8	56
621	Decades of Internet of Things Towards Twenty-first Century: A Research-Based Introspective. Wireless Personal Communications, 2022, 123, 3661-3697.	2.7	18
622	A review on security threats, vulnerabilities, and counter measures of 5G enabled Internetâ€ofâ€Medicalâ€Things. IET Communications, 2022, 16, 421-432.	2.2	90
623	Digital twin-driven complexity management in intelligent manufacturing. Digital Twin, 0, 1, 9.	0.0	5
624	Metamaterials: Advancement and Futuristic Design Approach. Wireless Personal Communications, 2022, 124, 2075-2095.	2.7	1
625	Matching sensor ontologies with unsupervised neural network with competitive learning. PeerJ Computer Science, 2021, 7, e763.	4.5	2
626	Secure IIoT-Enabled Industry 4.0. Sustainability, 2021, 13, 12384.	3.2	11
627	VLCIoT: design and implementation of a visible light communication system for indoor Internet of Things applications. Applied Optics, 2021, 60, 11094.	1.8	4

#	Article	IF	CITATIONS
628	Digital transformation of industrial businesses: A dynamic capability approach. Technovation, 2022, 113, 102414.	7.8	92
629	Food Informaticsâ€"Review of the Current State-of-the-Art, Revised Definition, and Classification into the Research Landscape. Foods, 2021, 10, 2889.	4.3	8
630	Optimal Network Configuration in Heterogeneous Industrial IoT. SpringerBriefs in Applied Sciences and Technology, 2022, , 67-94.	0.4	0
631	A Survey on blockchain for industrial Internet of Things. AEJ - Alexandria Engineering Journal, 2022, 61, 6001-6022.	6.4	59
632	Managing Smart Agriculture: the IoT Entity Management System (IoTEMS)., 2021,,.		0
633	DDS and OPC UA Protocol Coexistence Solution in Real-Time and Industry 4.0 Context Using Non-Ideal Infrastructure. Sensors, 2021, 21, 7760.	3.8	11
634	The TriLS Approach for Drift-Aware Time-Series Prediction in IIoT Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 6581-6591.	11.3	3
635	FAS-DQN: Freshness-Aware Scheduling via Reinforcement Learning for Latency-Sensitive Applications. IEEE Transactions on Computers, 2022, 71, 2381-2394.	3.4	2
636	Cross-Layer Optimization for Industrial Internet of Things in NOMA-Based C-RANs. IEEE Internet of Things Journal, 2022, 9, 16962-16975.	8.7	1
637	Event-Driven Business Process Management Enhancing IoT – A Systematic Literature Review and Development of Research Agenda. Lecture Notes in Information Systems and Organisation, 2021, , 645-661.	0.6	3
638	AlloT for Development of Test Standards for Agricultural Technology., 2021,, 77-99.		10
639	Buffer Space Management in Intermittently Connected Internet of Things: Sharing or Allocation?. IEEE Internet of Things Journal, 2022, 9, 10961-10977.	8.7	2
640	BESIFL: Blockchain-Empowered Secure and Incentive Federated Learning Paradigm in IoT. IEEE Internet of Things Journal, 2023, 10, 6561-6573.	8.7	21
641	On The Private Data Synthesis Through Deep Generative Models for Data Scarsity of Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, , 1-1.	11.3	0
642	Primal–Dual Learning for Cross-Layer Resource Management in Cell-Free Massive MIMO IIoT. IEEE Internet of Things Journal, 2022, 9, 17026-17034.	8.7	3
643	A Survey on LoRaWAN Technology: Recent Trends, Opportunities, Simulation Tools and Future Directions. Electronics (Switzerland), 2022, 11, 164.	3.1	83
644	Edge-cloud cooperation driven self-adaptive exception control method for the smart factory. Advanced Engineering Informatics, 2022, 51, 101493.	8.0	11
645	Achieving Knowledge-as-a-Service in IIoT-driven smart manufacturing: A crowdsourcing-based continuous enrichment method for Industrial Knowledge Graph. Advanced Engineering Informatics, 2022, 51, 101494.	8.0	29

#	Article	IF	CITATIONS
646	Adoption of Blockchain With 5G Networks for Industrial IoT: Recent Advances, Challenges, and Potential Solutions. IEEE Access, 2022, 10, 981-997.	4.2	15
647	Optimization of Fusion Center Parameters With Threshold Selection in Multiple Antenna and Censoring-Based Cognitive Radio Network. IEEE Sensors Journal, 2022, 22, 4709-4721.	4.7	5
649	PLC Protection System Based on Verification Separation. Computers, Materials and Continua, 2022, 71, 2401-2417.	1.9	3
650	Industrial digital twins at the nexus of NextG wireless networks and computational intelligence: A survey. Journal of Network and Computer Applications, 2022, 200, 103309.	9.1	41
651	An Industrial Cloud-Based IoT System for Real-Time Monitoring and Controlling of Wastewater. IEEE Access, 2022, 10, 6528-6540.	4.2	7
652	Global optimisation approach for designing high-efficiency piezoelectric beam-based energy harvesting devices. Nano Energy, 2022, 93, 106684.	16.0	19
653	A cost aware topology formation scheme for latency sensitive applications in edge infrastructure-as-a-service paradigm. Journal of Network and Computer Applications, 2022, 199, 103303.	9.1	10
655	A Low-Cost IoT-Based System for Manufacturing Process Data Acquisition. , 2020, , .		1
656	Dynamic task scheduling for fog nodes based on deadline constraints and task frequency for smart factories. , 2020, , .		5
657	Semantic Interoperability in the Industry 4.0 Using the IEEE 1451 Standard. , 2020, , .		12
658	Refined Characterization of Internet of Things Applications in Power Systems. , 2020, , .		0
659	Implementation of a WSN-Based IIoT Monitoring System within the Workshop of a Solar Protection Curtains Company., 2020, 2, .		1
660	Generalized Polarization-Space Modulation in Reconfigurable Intelligent Surfaces., 2020,,.		5
661	Blockchain-based machine-to-machine communication in the industry 4.0 applied at the industrial mining environment. , 2020, , .		3
662	End-to-End Transmission Control for Cross-Regional Industrial Internet of Things in Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 4215-4223.	11.3	22
663	Symbiosis Between D2D Communication and Industrial IoT for Industry 5.0 in 5G mm-Wave Cellular Network: An Interference Management Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 5527-5536.	11.3	15
664	Context-Dependent Services Selection in Smart Environments. , 2021, , .		0
665	Stochastic Switching of Power Levels can Accelerate Self-Organized Synchronization in Wireless Networks with Interference., 2021,,.		1

#	Article	IF	CITATIONS
666	Generating IoT Edge Network Datasets based on the TON_IoT Telemetry Dataset., 2021,,.		3
667	Optimal Task Offloading Decision in IIoT Enviornments Using Reinforcement Learning., 2021,,.		1
669	Survey on Blockchain Enabled Authentication for Industrial Internet of Things. , 2021, , .		1
670	Graph-based operational robustness analysis of industrial Internet of things platform for manufacturing service collaboration. International Journal of Production Research, 2023, 61, 4237-4264.	7.5	3
671	Secure Partial Aggregation: Making Federated Learning More Robust for Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 6340-6348.	11.3	10
672	Q2A-NOMA: A Q-Learning-Based QoS-Aware NOMA System Design for Diverse Data Rate Requirements. IEEE Transactions on Industrial Informatics, 2022, 18, 7549-7559.	11.3	5
673	An advanced order batching approach for automated sequential auctions with forecasting and postponement. International Journal of Production Research, 2023, 61, 4180-4195.	7.5	2
674	On the Data Freshness for Industrial Internet of Things With Mobile-Edge Computing. IEEE Internet of Things Journal, 2022, 9, 13542-13554.	8.7	6
675	Analysis of Beyond 5G Integrated Communication and Ranging Services Under Indoor 3-D mmWave Stochastic Channels. IEEE Transactions on Industrial Informatics, 2022, 18, 7128-7138.	11.3	5
676	Review of commercial and open technologies available for Industrial Internet of Things. , 2022, , 209-241.		6
677	A Review of Efficient Real-Time Decision Making in the Internet of Things. Technologies, 2022, 10, 12.	5.1	3
678	A bibliometric review of research on digital identity: Research streams, influential works and future research paths. Journal of Manufacturing Systems, 2022, 62, 523-538.	13.9	8
679	Providing Convenient Indoor Thermal Comfort in Real-Time Based on Energy-Efficiency IoT Network. Energies, 2022, 15, 808.	3.1	6
680	A knowledge graph-based data representation approach for IIoT-enabled cognitive manufacturing. Advanced Engineering Informatics, 2022, 51, 101515.	8.0	43
681	Edge Artificial Intelligence for 6C: Vision, Enabling Technologies, and Applications. IEEE Journal on Selected Areas in Communications, 2022, 40, 5-36.	14.0	206
682	A survey of application research based on blockchain smart contract. Wireless Networks, 2022, 28, 635-690.	3.0	61
683	A Novel Distributed Stack Ensembled Meta-Learning-Based Optimized Classification Framework for Real-time Prolific IoT Traffic Streams. Arabian Journal for Science and Engineering, 2022, 47, 9907-9930.	3.0	7
684	QoS-aware placement of microservices-based IoT applications in Fog computing environments. Future Generation Computer Systems, 2022, 131, 121-136.	7.5	37

#	Article	IF	CITATIONS
685	Multiple Adaptive-Resource-Allocation Real-Time Supervisor (MARS) for Elastic IIoT Hybrid Cloud Services. IEEE Transactions on Network Science and Engineering, 2022, 9, 1462-1476.	6.4	3
686	Industrial Internet of Things for Condition Monitoring and Diagnosis of Dry Vacuum Pumps in Atomic Layer Deposition Equipment. Electronics (Switzerland), 2022, 11, 375.	3.1	5
687	Learning Algorithms for Complete Targets Coverage in RF-Energy Harvesting Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3229-3240.	6.3	0
688	When IEEE 802.11 and 5G Meet Time-Sensitive Networking. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 14-36.	6.8	29
689	Information Dissemination With Service-Oriented Incentive Mechanism in Industrial Internet of Things. IEEE Internet of Things Journal, 2022, 9, 16897-16907.	8.7	6
690	A Comprehensive Survey on Blockchain in Industrial Internet of Things: Motivations, Research Progresses, and Future Challenges. IEEE Communications Surveys and Tutorials, 2022, 24, 88-122.	39.4	93
691	A Fault-Tolerant Transmission Scheme in SDN-Based Industrial IoT (IIoT) over Fiber-Wireless Networks. Entropy, 2022, 24, 157.	2.2	12
692	A design method for an intelligent manufacturing and service system for rehabilitation assistive devices and special groups. Advanced Engineering Informatics, 2022, 51, 101504.	8.0	17
693	Robust Time Synchronization for Industrial Internet of Things by <i>H</i> <sub>â^ž</sub> Output Feedback Control. IEEE Internet of Things Journal, 2023, 10, 2021-2030.	8.7	9
694	Temporal Computing Resource Allocation Scheme With End Device Assistance. IEEE Internet of Things Journal, 2022, 9, 16884-16896.	8.7	2
695	Self-Learning Spatial Distribution-Based Intrusion Detection for Industrial Cyber-Physical Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 1693-1702.	4.4	12
696	Hypnos: A Hardware and Software Toolkit for Energy-Aware Sensing in Low-Cost IoT Nodes. IEEE Internet of Things Journal, 2022, 9, 13524-13541.	8.7	0
697	Efficient Load Balancing for Heterogeneous Radio-Replication-Combined LoRaWAN. IEEE Transactions on Industrial Informatics, 2022, 18, 7400-7411.	11.3	7
698	Semantic-aware event link reasoning over industrial knowledge graph embedding time series data. International Journal of Production Research, 2023, 61, 4117-4134.	7.5	22
699	The Role of Emerging Technologies to Fight Against COVID-19 Pandemic: An Exploratory Review. , 2022, 7, 157-174.		11
700	Applicability of Internet of Things in Smart Farming. Journal of Food Quality, 2022, 2022, 1-7.	2.6	39
701	Industrial internet of things (IIoT) forensics: The forgotten concept in the race towards industry 4.0. Forensic Science International: Reports, 2022, 5, 100257.	0.8	15
702	Edge Intelligence for Smart EL Images Defects Detection of PV Plants in the IoT-Based Inspection System. IEEE Internet of Things Journal, 2023, 10, 3047-3056.	8.7	5

#	Article	IF	CITATIONS
703	De-prioritization Impact of LCH-based Prioritization for Industrial Internet of Things in 3GPP NR. , 2022, , .		0
704	Reliability Versus Latency in IIoT Visual Applications: A Scalable Task Offloading Framework. IEEE Internet of Things Journal, 2022, 9, 16726-16735.	8.7	8
705	Securing Remote User Authentication in Industrial Internet of Things. , 2022, , .		4
706	A Secure Cloudlet-Based Charging Station Recommendation for Electric Vehicles Empowered by Federated Learning. IEEE Transactions on Industrial Informatics, 2022, 18, 6464-6473.	11.3	21
707	Exploring Human Mobility for Multi-Pattern Passenger Prediction: A Graph Learning Framework. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16148-16160.	8.0	24
708	Delay Considerations for Reliable Communications in LoRaWAN. , 2022, , .		3
709	Digitalization Solutions in the Mineral Processing Industry: The Case of GTK Mintec, Finland. Minerals (Basel, Switzerland), 2022, 12, 210.	2.0	13
710	On the Reliability of Industrial Internet of Things from Systematic Perspectives: Evaluation Approaches, Challenges, and Open Issues. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784	43 <b>3.</b> 4 rgBT	  Overlock
711	Fog-supported Low-latency Monitoring of System Disruptions in Industry 4.0: A Federated Learning Approach. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-23.	2.5	10
712	Sustainable Smart Tags with Twoâ€5tep Verification for Anticounterfeiting Triggered by the Photothermal Response of Upconverting Nanoparticles. Advanced Photonics Research, 2022, 3, .	3.6	9
713	A Comprehensive Survey on Interoperability for IIoT: Taxonomy, Standards, and Future Directions. ACM Computing Surveys, 2023, 55, 1-35.	23.0	60
714	A Truthful Combinatorial Auction Mechanism Towards Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Cloud Computing, 2023, 11, 1678-1691.	4.4	6
715	Assessment of the PLC Code generated with the GEMMA-GRAFCET Methodology. Procedia Computer Science, 2022, 200, 699-709.	2.0	2
716	Energy-Efficient Beamforming for Heterogeneous Industrial IoT Networks With Phase and Distortion Noises. IEEE Transactions on Industrial Informatics, 2022, 18, 7423-7434.	11.3	15
717	Comparative Analysis of Machine Learning-Based Algorithms for Detection of Anomalies in IIoT. International Journal of Information Retrieval Research, 2022, 12, 1-55.	0.7	1
718	Hierarchical Multiple Access for Spectrum-Energy Opportunistic Ambient Backscatter Wireless Networks. IEEE Transactions on Mobile Computing, 2022, , 1-1.	5.8	1
719	Energy-Saving Deployment Optimization and Resource Management for UAV-Assisted Wireless Sensor Networks With NOMA. IEEE Transactions on Vehicular Technology, 2022, 71, 6609-6623.	6.3	31
720	Data Collection in Studies on Internet of Things (IoT), Wireless Sensor Networks (WSNs), and Sensor Cloud (SC): Similarities and Differences. IEEE Access, 2022, 10, 33909-33931.	4.2	24

#	Article	IF	CITATIONS
721	Design of Security Protection Based on Industrial Internet of Things Technology., 2022,,.		2
722	Dependable Intrusion Detection System for IoT: A Deep Transfer Learning Based Approach. IEEE Transactions on Industrial Informatics, 2023, 19, 1006-1017.	11.3	38
725	HealthStack: Providing an IoT Middleware for Malleable QoS Service Stacking for Hospital 4.0 Operating Rooms. IEEE Internet of Things Journal, 2022, 9, 18406-18430.	8.7	4
726	Digital Twin Perspective of Fourth Industrial and Healthcare Revolution. IEEE Access, 2022, 10, 25732-25754.	4.2	33
727	TTGN: Two-Tier Geographical Networking for Industrial Internet of Things With Edge-Based Cognitive Computing. IEEE Access, 2022, 10, 22238-22246.	4.2	2
728	A Dynamic System to Predict an Assembly Line Worker's Comfortable Work-Duration Time by Using the Machine Learning Technique. Procedia CIRP, 2022, 106, 270-275.	1.9	3
729	Correlation Aware Scheduling for Edge-Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 7967-7976.	11.3	2
730	QTT-DLSTM: A Cloud-Edge-Aided Distributed LSTM for Cyber–Physical–Social Big Data. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7286-7298.	11.3	20
731	Factory 5G: A Review of Industry-Centric Features and Deployment Options. IEEE Industrial Electronics Magazine, 2022, 16, 24-34.	2.6	18
732	An Approach for Assessing Industrial lot Data Sources to Determine Their Data Trustworthiness. SSRN Electronic Journal, 0, , .	0.4	1
733	Timely Device Status Updates in Industrial Wireless Monitoring Systems Under Resource Constraints. IEEE Internet of Things Journal, 2022, 9, 18791-18805.	8.7	1
734	A Review on Communication Protocols of Industrial Internet of Things. , 2022, , .		6
735	Developing a smart port architecture and essential elements in the era of Industry 4.0. Maritime Economics and Logistics, 2022, 24, 189-207.	4.0	25
736	Blockchain Data Privacy Protection and Sharing Scheme Based on Zero-Knowledge Proof. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	1.2	7
737	Smart Warehouse Management System: Architecture, Real-Time Implementation and Prototype Design. Machines, 2022, 10, 150.	2.2	23
738	The design of smart classroom for modern college English teaching under Internet of Things. PLoS ONE, 2022, 17, e0264176.	2.5	9
739	Internet of Things in Industry: Research Profiling, Application, Challenges and Opportunities—A Review. Energies, 2022, 15, 1806.	3.1	50
740	SUKRY: Suricata IDS with Enhanced kNN Algorithm on Raspberry Pi for Classifying IoT Botnet Attacks. Electronics (Switzerland), 2022, 11, 737.	3.1	11

#	Article	IF	CITATIONS
741	An Intelligent System to Detect Advanced Persistent Threats in Industrial Internet of Things (I-IoT). Electronics (Switzerland), 2022, 11, 742.	3.1	24
742	RESCUE: Enabling green healthcare services using integrated loTâ€edgeâ€fogâ€cloud computing environments. Software - Practice and Experience, 2022, 52, 1615-1642.	3.6	12
743	A novel approach for the detection of anomalous energy consumption patterns in industrial cyberâ€physical systems. Expert Systems, 2024, 41, .	4.5	4
744	Deep Learning-Based Scheduling Scheme for IEEE 802.15.4e TSCH Network. Wireless Communications and Mobile Computing, 2022, 2022, 1-17.	1.2	1
745	An Aggregated Data Integration Approach to the Web and Cloud Platforms through a Modular REST-Based OPC UA Middleware. Sensors, 2022, 22, 1952.	3.8	6
746	Predictive Energy-Aware Routing Solution for Industrial IoT Evaluated on a WSN Hardware Platform. Sensors, 2022, 22, 2107.	3.8	3
747	Web Intelligence meets Brain Informatics: Towards the future of artificial intelligence in the connected world. World Wide Web, 2022, 25, 1223-1241.	4.0	8
748	Security Perspective Analysis of Industrial Cyber Physical Systems (I-CPS): A Decade-wide Survey. ISA Transactions, 2022, 130, 10-24.	5.7	15
749	lloT platforms' architectural features – a taxonomy and five prevalent archetypes. Electronic Markets, 2022, 32, 927-944.	8.1	10
750	Achieving QoS for Bursty uRLLC Applications over Passive Optical Networks. Journal of Optical Communications and Networking, 0, , .	4.8	2
751	Hierarchical framework for analysing the challenges of implementing industrial Internet of Things in manufacturing industries using ISM approach. International Journal of Systems Assurance Engineering and Management, 2022, 13, 2356-2370.	2.4	8
752	Blockchain Technology in the Chemical Industry. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, .	6.8	2
753	An energy $\hat{e}$ efficient data management scheme for industrial IoT. International Journal of Communication Systems, 0, , .	2.5	2
754	A transfer learning CNN-LSTM network-based production progress prediction approach in IIoT-enabled manufacturing. International Journal of Production Research, 2023, 61, 4045-4068.	<b>7.</b> 5	8
755	Just Trolley: Implementation of industrial IoT and digital twin-enabled spatial-temporal traceability and visibility for finished goods logistics. Advanced Engineering Informatics, 2022, 52, 101571.	8.0	12
756	A Computer Science Perspective on Digital Transformation in Production. ACM Transactions on Internet of Things, 2022, 3, 1-32.	4.6	68
757	Evolution model of high quality of service for spatial heterogeneous wireless sensor networks. Physica A: Statistical Mechanics and Its Applications, 2022, 596, 127182.	2.6	2
758	Communication and Computation Resource Allocation for Digital Twin in IIoT Systems. , 2021, , .		2

#	Article	IF	CITATIONS
759	Text Analytics Architecture in IoT Systems. , 2021, , .		1
760	Ubiquitous System Integration as a Service in Smart Factories. , 2021, , .		3
761	Detecting Network Attacks using Federated Learning for IoT Devices. , 2021, , .		4
762	Internet of Things Security Requirements, Threats, Attacks, and Countermeasures. Studies in Computational Intelligence, 2022, , 67-112.	0.9	1
763	DATA SECURITY $\hat{a} \in$ "THE NEXT IMPERATIVE IN HEALTHCARE SYSTEMS. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	0
764	Digital Twin-Based Services for Smart Production Logistics. , 2021, , .		4
765	CrowdBox: Crowdsourced Network-in-Box Recruitment for Edge Computing-Enabled Industrial Internet of Things. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	0
766	Stable Online Offloading and Trajectory Control for UAV-enabled MEC with EH Devices. , 2021, , .		4
767	SCADA WebView: A State-of-the-Art Enterprise Transmission SCADA Engine., 2021,,.		0
768	Logistics 4.0: Do we have professionals prepared from an Education 4.0?. International Journal of Scientific Research and Management, 2021, 9, 2040-2053.	0.1	1
770	The Registration-based Scheduling for Avoiding Collision using the Triggered RAW for IEEE 802.11ah. , 2021, , .		1
771	Blockchain-based secure Handover for IoT using Zero-Knowledge Proof protocol. , 2021, , .		3
772	Composite Resource Scheduling for Networked Control Systems. , 2021, , .		2
773	An Overview on Artificial Intelligence Techniques for Advanced Operation and Maintenance of PhotoVoltaic Power Plants., 2021, , .		1
774	A Cluster-Based Optimal Computation Offloading Decision Mechanism Using RL in the IIoT Field. Applied Sciences (Switzerland), 2022, 12, 384.	2.5	2
775	Performance Limit of Two-Agent Scheduling with Kinematic Constraints. , 2021, , .		2
776	A web platform for the management of road survey and maintenance information: A preliminary step towards smart road management systems. Structural Control and Health Monitoring, 2022, 29, .	4.0	9
777	A Layered Middleware for OT/IT Convergence to Empower Industry 5.0 Applications. Sensors, 2022, 22, 190.	3.8	18

#	Article	IF	CITATIONS
778	Weighted RAFT: An Improved Blockchain Consensus Mechanism for Internet of Things Application. , 2021, , .		8
779	Comparative Study of Malware Detection Techniques for Industrial Control Systems. , 2021, , .		0
780	Toward Dispersed Computing: Cases and State-of-The-Art., 2021,,.		2
781	Knowledge mapping of research on Industry 4.0: A visual analysis using CiteSpace. Serbian Journal of Management, 2022, 17, 125-143.	0.9	0
782	A \$T^{2}\$-Tensor-Aided Multiscale Transformer for Remaining Useful Life Prediction in IIoT. IEEE Transactions on Industrial Informatics, 2022, 18, 8108-8118.	11.3	11
783	Age of Information in Physical-Layer Network Coding Enabled Two-Way Relay Networks. IEEE Transactions on Mobile Computing, 2023, 22, 4485-4499.	5.8	8
784	Smart Production Systems: Methods and Application. , 2022, , .		1
785	A multi-point collaborative DDoS defense mechanism for IIoT environment. Digital Communications and Networks, 2023, 9, 590-601.	5.0	6
786	Machine Learning-Enabled IoT Security: Open Issues and Challenges Under Advanced Persistent Threats. ACM Computing Surveys, 2023, 55, 1-37.	23.0	20
787	A dualâ€system trusted computing node construction method based on ARM multiâ€core CPU architecture. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	1
788	Landscape of IoT security. Computer Science Review, 2022, 44, 100467.	15.3	56
789	A synchronous multiple change-point detecting method for manufacturing process. Computers and Industrial Engineering, 2022, 169, 108114.	6.3	2
790	Digital Twin: A Comprehensive Survey of Security Threats. IEEE Communications Surveys and Tutorials, 2022, 24, 1475-1503.	39.4	63
791	Edge Computing-Aided Coded Vertical Federated Linear Regression. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1543-1551.	7.9	3
792	A Delay-Sensitive Multibase-Station Multichannel Access System for Smart Factory. IEEE Systems Journal, 2023, 17, 188-199.	4.6	3
793	A Novel Sensing Template Using Data Fusion for Large Volume Assembly. IFAC-PapersOnLine, 2022, 55, 283-288.	0.9	0
794	A Frequency-Time Synchronization Scheme for Real-Time Wireless Sensor Networks. IEEE Access, 2022, 10, 51447-51457.	4.2	2
796	A Learning-Based Context-Aware Quality Test System in B5G-Aided Advanced Manufacturing. IEEE Transactions on Industrial Informatics, 2022, , 1-1.	11.3	O

#	Article	IF	CITATIONS
797	Efficient Opportunities and Boundaries towards Internet of Things (IoT) Cost Adaptive Model. , 2022, , .		3
798	Usage of Internet of Things Based Devices in Smart Agriculture for Monitoring the field and Pest Control., 2022,,.		5
799	Research on the Method of Digital Media Content Creation Based on the Internet of Things. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.7	3
800	Heterogeneous Network Access and Fusion in Smart Factory: A Survey. ACM Computing Surveys, 2023, 55, 1-31.	23.0	4
801	Research on a collaboration model of green closed-loop supply chains towards intelligent manufacturing. Multimedia Tools and Applications, $0,1.$	3.9	2
802	Service Innovation and Quality Assessment of Industry 4.0 Microservice through Data Modeling and System Simulation Evaluation Approaches. Applied Sciences (Switzerland), 2022, 12, 4718.	2.5	3
803	A Tutorial on Bandit Learning and Its Applications in 5G Mobile Edge Computing (Invited Paper). Frontiers in Signal Processing, 2022, 2, .	1.7	0
804	Delay and Energy Consumption of MQTT over QUIC: An Empirical Characterization Using Commercial-Off-The-Shelf Devices. Sensors, 2022, 22, 3694.	3.8	3
805	Autonomous runtime consumer interface generation and deployment for service interoperability. Journal of Industrial Information Integration, 2022, 28, 100355.	6.4	1
806	M-UPS: A multi-user Pairing Scheme for NOMA-enabled Backscatter Communication Networks. , 2021, , .		1
807	5G and Blockchain Enabled Lightweight Solutions for Containing COVID-19. Security and Communication Networks, 2022, 2022, 1-12.	1.5	1
808	Dynamic Noisy Measurement A ware Localization Model for Wireless Sensor Networks. Journal of Interconnection Networks, 0, , .	1.0	0
810	Mapping regional strengths in a key enabling technology: The distribution of Internet of Things competences across European regions. Papers in Regional Science, 2022, 101, 875-901.	1.9	5
811	Enhancing the Effectiveness of Trimethylchlorosilane Purification Process Monitoring with Variational Autoencoder. CMES - Computer Modeling in Engineering and Sciences, 2022, .	1.1	2
812	A Framework for Classifying Internet-of-Things Challenges. Advances in Wireless Technologies and Telecommunication Book Series, 2022, , 20-53.	0.4	0
813	Age of Information in SIC-based Non-Orthogonal Multiple Access. , 2022, , .		5
814	Fast Connectivity Construction via Deep Channel Learning Cognition in Beyond 5G D2D Networks. Electronics (Switzerland), 2022, 11, 1580.	3.1	0
815	SDNRCFII: An SDN-Based Reliable Communication Framework for Industrial Internet. IEICE Transactions on Communications, 2022, E105.B, 1508-1518.	0.7	0

#	Article	IF	CITATIONS
816	Blockchain-Enabled Multiparty Computation for Privacy Preserving and Public Audit in Industrial IoT. IEEE Transactions on Industrial Informatics, 2022, 18, 9259-9267.	11.3	10
817	Digital Twins forÂEnhanced Resilience: Aerospace Manufacturing Scenario. Lecture Notes in Business Information Processing, 2022, , 107-118.	1.0	0
818	MANU-ML: Methodology for the application of machine learning in manufacturing processes. Procedia CIRP, 2022, 107, 798-803.	1.9	0
819	A Fair Access Mechanism to Support Fragmented Data Transfers in CAN., 2022,,.		1
820	CONSIP: Consistency Protocol for Hopping Function Exchange and Black listing in TSCH., 2022, , .		0
821	Proactive Network Fault Management for Reliable Subscribed Network Slicing in Software-Defined Mobile Data IoT Services. Scientific Programming, 2022, 2022, 1-11.	0.7	1
822	Enhancing the through-plane thermal conductivity of a cellulose nanofiber film via boron nitride surface functionalization and cellulose chemical crosslinking. Ceramics International, 2022, 48, 25284-25291.	4.8	11
823	Implementation of Cloud Component for Security Monitoring and Comprehensive Guarantee of Identifier Resolution System. , 2022, , .		0
824	A Comparison of Machine Learning Techniques for the Quality Classification of Molded Products. Information (Switzerland), 2022, 13, 272.	2.9	8
825	Rapid prototyping of ion-selective electrodes using a low-cost 3D printed internet-of-things (IoT) controlled robot. Talanta, 2022, 247, 123544.	5.5	7
826	Efficient and Privacy-Preserving Blockchain-Based Multifactor Device Authentication Protocol for Cross-Domain IIoT. IEEE Internet of Things Journal, 2022, 9, 22501-22515.	8.7	14
827	Security Outage Probability Analysis of Cognitive Networks With Multiple Eavesdroppers for Industrial Internet of Things. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1422-1433.	7.9	4
828	Review andÂClassification ofÂDigital Manufacturing Reference Architectures. Studies in Computational Intelligence, 2022, , 231-247.	0.9	2
829	On the Impact of Multimodal and Multisensor Biometrics in Smart Factories. IEEE Transactions on Industrial Informatics, 2022, 18, 9092-9100.	11.3	10
830	Edge Computing-Assisted IoT Framework With an Autoencoder for Fault Detection in Manufacturing Predictive Maintenance. IEEE Transactions on Industrial Informatics, 2023, 19, 5701-5710.	11.3	14
831	Efficient Gaussian Kernel Microcluster Real-Time Clustering Method for Industrial Internet of Things (IIoT) Streams. IEEE Internet of Things Journal, 2022, 9, 21323-21337.	8.7	2
832	Implementation of a Secure LoRaWAN System for Industrial Internet of Things Integrated With IPFS and Blockchain. IEEE Systems Journal, 2022, 16, 5455-5464.	4.6	13
833	A Real-Time Locating System with Intelligent Position Correction for Harsh Environments. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
834	Learning Algorithms for Data Collection in RF-Charging IIoT Networks. IEEE Transactions on Industrial Informatics, 2022, , $1-1$ .	11.3	1
835	Integrating process management and event processing in smart factories: A systems architecture and use cases. Journal of Manufacturing Systems, 2022, 63, 575-592.	13.9	19
836	Smart Farming System Based on Intelligent Internet of Things and Predictive Analytics. Journal of Food Quality, 2022, 2022, 1-8.	2.6	11
837	Metamaterial Absorbers: From Tunable Surface to Structural Transformation. Advanced Materials, 2022, 34, .	21.0	47
838	Joint Latency and Energy-aware Data Management Layer for Industrial IoT., 2022,,.		2
839	An Intelligent Product Service System for Adaptive Maintenance of Engineered-to-Order Manufacturing Equipment Assisted by Augmented Reality. Applied Sciences (Switzerland), 2022, 12, 5349.	2.5	18
840	Exploring the Application Sphere of the Internet of Things in Industry 4.0: A Review, Bibliometric and Content Analysis. Sensors, 2022, 22, 4276.	3.8	39
841	Energy Oriented Concepts and Other SMART WORLD Trends as Game Changers of Co-Production—Reality or Future?. Energies, 2022, 15, 4112.	3.1	3
842	Workload-optimized sensor data store for industrial IoT gateways. Future Generation Computer Systems, 2022, 135, 394-408.	7.5	1
843	A Privacy-Aware Cross-Domain Device Authentication Scheme for IIoT Based on Blockchain., 2021, , .		2
844	Dual-Timescale Resource Allocation for Collaborative Service Caching and Computation Offloading in IoT Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 1735-1746.	11.3	3
845	Industrial Internet of Things: Requirements, Architecture, Challenges, and Future Research Directions. IEEE Access, 2022, 10, 66374-66400.	4.2	21
846	PNC Enabled IIoT: A General Framework for Channel-Coded Asymmetric Physical-Layer Network Coding. IEEE Transactions on Wireless Communications, 2022, 21, 10335-10350.	9.2	1
847	Joint Task Offloading and Resource Allocation for Accuracy-Aware Machine-Learning-Based IIoT Applications. IEEE Internet of Things Journal, 2023, 10, 3305-3321.	8.7	8
848	An Image Security Model Based on Chaos and DNA Cryptography for IIoT Images. IEEE Transactions on Industrial Informatics, 2023, 19, 1957-1964.	11.3	11
849	Hybrid Genetic Algorithm and Simulated Annealing for Task Allocation with Data Security. SSRN Electronic Journal, 0, , .	0.4	0
850	Clustered WSN forÂBuilding Energy Management Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 673-687.	0.3	2
852	A Comparative Analysis of Machine Learning Techniques for IoT Intrusion Detection. Lecture Notes in Computer Science, 2022, , 191-207.	1.3	11

#	Article	IF	CITATIONS
853	A New Approach to Accelerate Edge Computing Process Based on Multi-User Computation Offloading. , 2022, , .		O
854	Deep-Learning-Based Mobile Group Intelligence Perception Mechanism Oriented to User Privacy and Data Security in the Internet of Things. IEEE Wireless Communications, 2022, 29, 60-67.	9.0	0
855	How do manufacturing companies and service providers share knowledge in the context of servitization? An evolutionary-game model of complex networks. International Journal of Production Research, 2023, 61, 4279-4301.	7.5	6
856	Research on Real-Time Communication Algorithm of Substation Based on Time-Sensitive Network. Symmetry, 2022, 14, 1170.	2.2	1
857	EDSF: Efficient Distributed Scheduling Function for IETF 6TiSCH-based Industrial Wireless Networks. Mobile Networks and Applications, 2022, 27, 2244-2253.	3.3	1
858	Fully Textile Dual-Band Logo Antenna for IoT Wearable Devices. Sensors, 2022, 22, 4516.	3.8	14
859	Embedded intelligence and the data-driven future of application-specific Internet of Things for smart environments. International Journal of Distributed Sensor Networks, 2022, 18, 155013292211023.	2.2	2
860	MACP: Multifactor Authentication using Physical Unclonable Function and Fuzzy Extractor based Chebyshev Polynomial for Industrial Internet of Things devices. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	2
861	Enabling industrial internet of things-based digital servitization in smart production logistics. International Journal of Production Research, 2023, 61, 3884-3909.	7.5	10
862	Intelligent manufacturing system with human-cyber-physical fusion and collaboration for process fine control. Journal of Manufacturing Systems, 2022, 64, 149-169.	13.9	10
863	URLLC and eMBB in 5G Industrial IoT: A Survey. IEEE Open Journal of the Communications Society, 2022, 3, 1134-1163.	6.9	33
864	Dynamic Offloading and Trajectory Control for UAV-Enabled Mobile Edge Computing System With Energy Harvesting Devices. IEEE Transactions on Wireless Communications, 2022, 21, 10515-10528.	9.2	10
865	Elastic O-RAN Slicing for Industrial Monitoring and Control: A Distributed Matching Game and Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 10808-10822.	6.3	13
866	Using IoT-Type Metadata and Smart Web Design to Create User Interfaces Automatically. IEEE Transactions on Industrial Informatics, 2023, 19, 3109-3118.	11.3	7
867	Traffic-Aware 6TiSCH Routing Method for IIoT Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 22709-22722.	8.7	3
868	An Explainable Deep Learning Framework for Resilient Intrusion Detection in IoT-Enabled Transportation Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1000-1014.	8.0	22
869	Unsupervised Recurrent Federated Learning for Edge Popularity Prediction in Privacy-Preserving Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 24328-24345.	8.7	11
870	Hypergraph-Based Resource Allocation for Ultra-Dense Wireless Network in Industrial IoT. IEEE Communications Letters, 2022, 26, 2106-2110.	4.1	1

#	Article	IF	CITATIONS
871	Dew-Cloud-Based Hierarchical Federated Learning for Intrusion Detection in IoMT. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 722-731.	6.3	13
872	Metamaterial Absorbers for IoT Applications. , 2022, , .		0
873	Internet of Things (IoT) benefits, future perspective, and implementation challenges., 2022,,.		4
874	Reinforcement of QoE based Feedback System to Allocate Resources in IIoT., 2022,,.		1
875	RT-WiFi on Software-Defined Radio: Design and Implementation. , 2022, , .		4
876	Anomaly detection of industrial state quantity time-Series data based on correlation and long short-term memory. Connection Science, 2022, 34, 2048-2065.	3.0	9
877	Instrument reading recognition by deep learning of capsules network model for digitalization in Industrial Internet of Things. Engineering Reports, 2022, 4, .	1.7	4
878	Two-layers service middleware for non-smart IoT sensors: case studies on industrial applications. Service Oriented Computing and Applications, 2022, 16, 179-189.	1.6	1
879	The internet of things in businesses in Turkey: A research on the barriers in practice. Balıkesir Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, 0, , .	0.6	1
880	Wireless Sensor Network-Based Automation of Irrigation in India. Lecture Notes in Networks and Systems, 2023, , 631-639.	0.7	1
881	Day ahead Power Demand Forecasting for Hybrid Power at the Edge., 2022,,.		1
882	XFDDC: eXplainable Fault Detection Diagnosis and Correction framework for chemical process systems. Chemical Engineering Research and Design, 2022, 165, 463-474.	5.6	12
883	Different Applications and Technologies of Internet of Things (IoT). Lecture Notes in Networks and Systems, 2023, , 41-54.	0.7	1
884	Industry 4.0 Based Business Process Re-Engineering Framework for Manufacturing Industry Setup Incorporating Evolutionary Multi-Objective Optimization. IEICE Transactions on Information and Systems, 2022, E105.D, 1283-1295.	0.7	0
885	DSMLB: Dynamic switch-migration based load balancing for software-defined IoT network. Computer Networks, 2022, 214, 109145.	5.1	4
886	An Analytical Model for the Aggregate Throughput of IEEE 802.11ah Networks under the Restricted Access Window Mechanism. Sensors, 2022, 22, 5561.	3.8	3
887	Aggregate processes as distributed adaptive services for the Industrial Internet of Things. Pervasive and Mobile Computing, 2022, 85, 101658.	3.3	9
888	Network Lifetime Optimization in Multi-hop Industrial Cognitive Radio Sensor Networks. ACM Transactions on Sensor Networks, 2023, 19, 1-22.	3.6	0

#	Article	IF	CITATIONS
889	HRC-mCNNs: A Hybrid Regression and Classification Multibranch CNNs for Automatic Meter Reading With Smart Shell. IEEE Internet of Things Journal, 2022, 9, 25752-25766.	8.7	3
890	Secure and Efficient Certificateless Searchable Authenticated Encryption Scheme Without Random Oracle for Industrial Internet of Things. IEEE Systems Journal, 2023, 17, 1304-1315.	4.6	3
891	Fraship: A Framework to Support End-User Personalization of Smart Home Services with Runtime Knowledge Graph., 2022,,.		1
892	ELSA: A Keyword-based Searchable Encryption for Cloud-edge assisted Industrial Internet of Things. , 2022, , .		3
893	Process management of ergonomic workplace based on augmented reality principles. Human Technology, 2022, 18, 66-91.	2.0	1
894	The Spectral and Energy Efficiency of Ultra-Dense IoT Networks. , 2022, , .		2
895	A Communication-efficient Semi Asynchronous Federated Learning Network in Power Grid., 2022,,.		0
896	IoT Based Smart Grid Communication with Transmission Line Fault Identification., 2022,,.		1
897	Internet of Things and Shop-Floor Digital Twin: an Aerospace case study. , 2022, , .		3
898	Impact of Missing Data on Classification Success in Health and Comparative Analysis of Imputation Methods. , 2022, , .		1
899	An IoT Measurement System Based on LoRaWAN for Additive Manufacturing. Sensors, 2022, 22, 5466.	3.8	7
900	Digital twin implementation for performance improvement in process industries- A case study of food processing company. International Journal of Production Research, 2023, 61, 8343-8365.	<b>7.</b> 5	9
901	Role of fogâ€assisted Industrial Internet of Things: A systematic review. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	1
902	Enhancing and securing cyberâ€physical systems and Industry 4.0 through digital twins: A critical review. Journal of Software: Evolution and Process, 2023, 35, .	1.6	9
903	An Industrial Network Digital Twin for enhanced security of Cyber-Physical Systems. , 2022, , .		5
904	Blockchain applications for the Internet of Things: Systematic review and challenges. Microprocessors and Microsystems, 2022, 94, 104632.	2.8	9
905	Optimal data transmission and pathfinding for WSN and decentralized IoT systems using I-GWO and Ex-GWO algorithms. AEJ - Alexandria Engineering Journal, 2023, 63, 339-357.	6.4	29
906	A novel Internet of Things and federated learning-based privacy protection in blockchain technology. International Journal of Pervasive Computing and Communications, 2022, ahead-of-print, .	1.3	0

#	Article	IF	CITATIONS
907	Price-based low-carbon demand response considering the conduction of carbon emission costs in smart grids. Frontiers in Energy Research, $0,10,10$	2.3	4
908	Smart Farming Solution for Crop Disease Prediction and Protection. , 2022, , 282-298.		0
909	High-capacity reversible data hiding in encrypted images based on pixel-value-ordering and histogram shifting. Expert Systems With Applications, 2023, 211, 118600.	7.6	17
910	Key Challenges and Emerging Technologies in Industrial IoT Architectures: A Review. Sensors, 2022, 22, 5836.	3.8	21
911	IFD: An Intelligent Fast Detection for Real-Time Image Information in Industrial IoT. Applied Sciences (Switzerland), 2022, 12, 7847.	2.5	1
912	Moving time domain blending operational strategy for alumina production by mixed integer optimization. Computers and Chemical Engineering, 2022, , 107950.	3.8	0
913	Artificial Intelligence Applications and Self-Learning 6G Networks for Smart Cities Digital Ecosystems: Taxonomy, Challenges, and Future Directions. Sensors, 2022, 22, 5750.	3.8	16
914	DRaNN_PSO: A deep random neural network with particle swarm optimization for intrusion detection in the industrial internet of things. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 8112-8121.	3.9	11
915	Content-centric data and computation offloading in Al-supported fog networks for next generation IoT. Pervasive and Mobile Computing, 2022, 85, 101654.	3.3	4
916	Multilevel sensor deployment approach in IloT-based environmental monitoring system in underground coal mines. Computer Communications, 2022, 195, 1-13.	5.1	7
917	Elastic and Reliable Bandwidth Reservation Based on Distributed Traffic Monitoring and Control. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4563-4580.	5.6	40
918	Energy System 4.0: Digitalization of the Energy Sector with Inclination towards Sustainability. Sensors, 2022, 22, 6619.	3.8	56
919	Poly(vinylidene fluoride-co-hexafluoropropylene) based tri-composites with zeolite and ionic liquid for electromechanical actuator and lithium-ion battery applications. Electrochimica Acta, 2022, 431, 141186.	5.2	6
920	Model-driven development of interoperable communication interfaces for FAIR sensor services. Measurement: Sensors, 2022, 24, 100442.	1.7	0
921	Optimization Scheme of Trusted Task Offloading in IIoT Scenario Basedç^n燚QN. Computers, Materials and Continua, 2023, 74, 2055-2071.	1.9	1
922	Aol-aware energy control and computation offloading for industrial IoT. Future Generation Computer Systems, 2023, 139, 29-37.	7.5	45
923	How Digital Shadows, New Forms of Human-Machine Collaboration, and Data-Driven Business Models Are Driving the Future of Industry 4.0: A Delphi Study. Contributions To Management Science, 2022, , 1-31.	0.5	4
924	Prototype Development for Automation of Irrigation System Based on IoT for Small and Medium Rural Producers. Lecture Notes in Networks and Systems, 2022, , 229-239.	0.7	0

#	Article	IF	CITATIONS
925	Speech-Oriented Sparse Attention Denoising for Voice User Interface Toward Industry 5.0. IEEE Transactions on Industrial Informatics, 2023, 19, 2151-2160.	11.3	5
926	An Anonymous and Outsourcing-Supported Multiauthority Access Control Scheme With Revocation for Edge-Enabled IIoT System. IEEE Systems Journal, 2022, 16, 6569-6580.	4.6	3
927	Multigateway Designation for Real-Time TSCH Networks Using Spectral Clustering and Centrality. IEEE Embedded Systems Letters, 2023, 15, 97-100.	1.9	0
928	The Adaptive Personalized Federated Meta-Learning for Anomaly Detection of Industrial Equipment. IEEE Journal of Radio Frequency Identification, 2022, 6, 832-836.	2.3	1
929	Machine Learning-Based Communication Failure Identification Scheme for Directional Industrial IoT Networks. IEEE Systems Journal, 2023, 17, 1559-1568.	4.6	1
930	The Road to Industry 4.0 and Beyond: A Communications-, Information-, and Operation Technology Collaboration Perspective. IEEE Network, 2022, 36, 157-164.	6.9	7
931	Federated Hierarchical Trust-Based Interaction Scheme for Cross-Domain Industrial IoT. IEEE Internet of Things Journal, 2023, 10, 447-457.	8.7	11
932	SCADA Systems With Focus on Continuous Manufacturing and Steel Industry: A Survey on Architectures, Standards, Challenges and Industry 5.0. IEEE Access, 2022, 10, 109395-109430.	4.2	11
933	Attack and Defense: Adversarial Security of Data-Driven FDC Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 5-19.	11.3	8
934	Energy-Efficient UAV-Based IoT Communications With WiFi Suppression in 5 GHz ISM Bands. IEEE Transactions on Vehicular Technology, 2023, 72, 2024-2039.	6.3	1
935	Fog Computing Security and Privacy for Internet of Things (IoT) and Industrial Internet of Things (IIoT) Applications: State of the Art. Internet of Things, 2022, , 145-157.	1.7	1
936	Deep-Learning-Enabled Predictive Maintenance in Industrial Internet of Things: Methods, Applications, and Challenges. IEEE Systems Journal, 2023, 17, 2602-2615.	4.6	12
937	Reliable Dynamic Packet Scheduling with Slot Sharing for Real-Time Wireless Networks. IEEE Transactions on Mobile Computing, 2022, , 1-19.	5.8	0
938	Some Aspects of Intelligent Human-Operators Decision Support Systems for NPP. IFAC-PapersOnLine, 2022, 55, 204-209.	0.9	2
939	Deep Reinforcement Learning-Based QoS Optimization for Software-Defined Factory Heterogeneous Networks. IEEE Transactions on Network and Service Management, 2022, 19, 4058-4068.	4.9	7
940	A Minimax Scheduling Framework for Inertially-Constrained Multi-Agent Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 24414-24427.	8.0	1
941	RBDMS: Rate-Adaptation and Buffer-Awareness Data Gathering for Mobile Sink Scheduling in WSNs. IEEE Sensors Journal, 2022, 22, 21326-21341.	4.7	3
942	XWare: a Middleware for Smart Retrofitting in Maintenance. IFAC-PapersOnLine, 2022, 55, 109-114.	0.9	0

#	ARTICLE	IF	CITATIONS
943	Multitask Multiobjective Deep Reinforcement Learning-Based Computation Offloading Method for Industrial Internet of Things. IEEE Internet of Things Journal, 2023, 10, 1848-1859.	8.7	7
944	Distributed Resource Distribution and Offloading for Resource-Agnostic Microservices in Industrial IoT. IEEE Transactions on Vehicular Technology, 2023, 72, 1184-1195.	6.3	2
945	Real-Time Data Analytics in Internet ofÂThingsÂSystems. , 2022, , 541-568.		0
946	CEBPM: A Cloud-Edge Collaborative Noncontact Blood Pressure Estimation Model. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	0
947	A Novel QoS-Aware Multi-Connectivity Scheme for Wireless IIoT. IEEE Access, 2022, 10, 104123-104134.	4.2	0
948	Adaptive Capacity Task Offloading in Multi-hop D2D-based Social Industrial IoT. IEEE Transactions on Network Science and Engineering, 2022, , 1-9.	6.4	1
949	Communication-Efficient Quantized Deep Compressed Sensing for Edge-Cloud Collaborative Industrial IoT Networks. IEEE Transactions on Industrial Informatics, 2023, 19, 6613-6623.	11.3	4
950	A Minimax Framework for Two-Agent Scheduling With Inertial Constraints. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 24401-24413.	8.0	2
951	Enhanced Energy-Saving Mechanisms in TSCH Networks for the IIoT: The PRIL Approach. IEEE Transactions on Industrial Informatics, 2023, 19, 7445-7455.	11.3	3
952	Active Connectivity Fundamentals for TSCH Networks of Mobile Robots. , 2022, , .		4
953	Blockchain-Based Industrial Internet of Things for the Integration of Industrial Process Automation Systems., 2022,, 986-1009.		0
954	Computing Resource Allocation for Heterogeneous Coded Distributed Computing. , 2022, , .		1
955	GSM WiFi MOBILE COMMUNICATION SYSTEM FOR AGRICULTURAL VEHICLES. INMATEH - Agricultural Engineering, 2022, , 23-32.	1.0	1
956	Evaluating the FinTech success factors model to achieve a sustainable financial technology business: An empirical study in Vietnam. Cogent Engineering, 2022, 9, .	2.2	8
957	An Unknown Protocol Identification Method for Industrial Internet. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	1.2	0
958	A Novel Approach for Estimating Performance of IIoT-Based Virtual Control Train Sets under DoS Attacks. Security and Communication Networks, 2022, 2022, 1-19.	1.5	1
959	Secure Blockchain Middleware for Decentralized IIoT towards Industry 5.0: A Review of Architecture, Enablers, Challenges, and Directions. Machines, 2022, 10, 858.	2.2	21
960	Predictive Monitoring System for Autonomous Mobile Robots Battery Management Using the Industrial Internet of Things Technology. Materials, 2022, 15, 6561.	2.9	5

#	Article	IF	Citations
961	Application and Challenges of IoT Healthcare System in COVID-19. Sensors, 2022, 22, 7304.	3.8	11
963	Survey on the Convergence of Machine Learning and Blockchain. Lecture Notes in Networks and Systems, 2023, , 170-189.	0.7	1
964	Consistent Round Hash optimized SRP-6a-based end-to-end mutual authentication for secure data transfer in industry 4.0. Internet of Things and Cyber-physical Systems, 2022, 2, 170-179.	8.7	4
965	Towards an Internet of Energy for smart and distributed generation: applications, strategies, and challenges. Journal of Computational Design and Engineering, 2022, 9, 1789-1816.	3.1	1
966	Optimisation of a forced multi-beam piezoelectric energy harvester. Energy Conversion and Management, 2022, 270, 116257.	9.2	2
967	Broadening the Research Pathways in Smart Agriculture: Predictive Analysis Using Semiautomatic Information Modeling. Journal of Sensors, 2022, 2022, 1-19.	1.1	6
968	Smart Congestion Control and Path Scheduling in MPTCP. Smart Innovation, Systems and Technologies, 2023, , 741-756.	0.6	0
969	Process-aware IIoT Knowledge Graph: A semantic model for Industrial IoT integration and analytics. Future Generation Computer Systems, 2023, 139, 224-238.	7.5	5
970	A new QoS-aware method for production scheduling in the industrial internet of things using elephant herding optimization algorithm. Cluster Computing, 2023, 26, 3611-3626.	5.0	1
971	Design and Features of Advanced Decision Support Systems. IFAC-PapersOnLine, 2022, 55, 1781-1786.	0.9	0
972	A Secure Group Data Encryption Scheme in Intelligent Manufacturing Systems for IIoT. International Journal of Software Innovation, 2022, 10, 1-12.	0.4	0
973	Data-driven Causal Association Discovery in Manufacturing Industries. , 2022, , .		1
974	Ray Tracing -driven System of Virtual Fitting Based on Trustworthy Identification of IIoT., 2022,,.		0
975	Linear-quadratic Stochastic Leaders-followers Differential Game with An Incomplete Information Structure. , 2022, , .		2
976	A General Dataset Generator for Industrial Internet of Things Using Multi-sensor Information Fusion. , 2022, , .		2
977	The Volume Spectral and Energy Efficiency of Ultra-Dense IoT Networks with Clustered Users. , 2022, , .		0
978	Explainable Learning Machines for Securing the IoMT Networks. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 135-154.	0.3	0
979	Practical Three-Factor Authentication Protocol Based on Elliptic Curve Cryptography for Industrial Internet of Things. Sensors, 2022, 22, 7510.	3.8	8

#	ARTICLE	IF	CITATIONS
980	The future of manufacturing: Utopia or dystopia?. Human Factors and Ergonomics in Manufacturing, 2023, 33, 184-200.	2.7	2
981	A Blockchain-Based Intrusion Detection System Using Viterbi Algorithm and Indirect Trust for IIoT Systems. Journal of Sensor and Actuator Networks, 2022, 11, 71.	3.9	12
982	Many-objective optimization of wireless sensor network deployment. Evolutionary Intelligence, 0, , .	3.6	0
983	Semantic Interconnection Scheme for Industrial Wireless Sensor Networks and Industrial Internet with OPC UA Pub/Sub. Sensors, 2022, 22, 7762.	3.8	4
984	The Performance Enhancement of Triple-band Vivaldi Antenna using SIW Structure for IIoT applications. Advanced Electromagnetics, 2022, 11, 34-41.	1.0	0
985	An Interoperable Digital Twin with the IEEE 1451 Standards. Sensors, 2022, 22, 7590.	3.8	9
986	Software-Defined Network-Based Energy-Aware Routing Method for Wireless Sensor Networks in Industry 4.0. Applied Sciences (Switzerland), 2022, 12, 10073.	2.5	3
987	IoT Anomaly Detection Based on Autoencoder and Bayesian Gaussian Mixture Model. Electronics (Switzerland), 2022, 11, 3287.	3.1	3
988	Paperless Production Demonstrator. , 2023, , 225-238.		1
989	Smart Farming: Internet of Things (IoT)-Based Sustainable Agriculture. Agriculture (Switzerland), 2022, 12, 1745.	3.1	79
990	A mixture model application in monitoring error message rates for a distributed industrial fleet. Quality Engineering, $0$ , , $1$ - $15$ .	1.1	0
991	Industry 4.0 and the Future of the Labor Market. İzmir Sosyal Bilimler Dergisi:, 2022, 4, 80-88.	0.4	O
992	Joint Identification, Detection and Channel Estimation in Industrial IoT. Procedia Computer Science, 2022, 209, 112-121.	2.0	0
993	Efficient Anonymous Authentication Based on Physically Unclonable Function in Industrial Internet of Things. IEEE Transactions on Information Forensics and Security, 2023, 18, 233-247.	6.9	7
994	Product Lifecycle Management (PLM): AÂKeyÂEnabler in Implementation ofÂIndustryÂ4.0., 2022, , 349-380.		1
995	Energy-Efficient Power Control for Simultaneous Wireless Information and Power Transferâ€"Nonorthogonal Multiple Access in Distributed Antenna Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 8205-8217.	11.3	2
996	Duple Color Image Encryption System Based on 3-D Nonequilateral Arnold Transform for IIoT. IEEE Transactions on Industrial Informatics, 2023, 19, 8285-8294.	11.3	4
997	Accurate and Efficient Digital Twin Construction Using Concurrent End-to-End Synchronization and Multi-Attribute Data Resampling. IEEE Internet of Things Journal, 2023, 10, 4857-4870.	8.7	5

#	Article	IF	CITATIONS
998	Review on cyber-physical and cyber-security system in smart grid: Standards, protocols, constraints, and recommendations. Journal of Network and Computer Applications, 2023, 209, 103540.	9.1	69
999	Key Technology of Intelligentized Welding Manufacturing and Systems Based on the Internet of Things and Multi-Agent. Journal of Manufacturing and Materials Processing, 2022, 6, 135.	2.2	2
1000	Industry 4.0 implementation challenges in small- and medium-sized enterprises: an approach integrating interval type-2 fuzzy BWM and DEMATEL. Soft Computing, 2023, 27, 169-186.	3.6	6
1001	An implementation of industrial IoT: a case study in lithium-ion battery pack and assembly. International Journal of Advanced Manufacturing Technology, 2022, 123, 3361-3375.	3.0	2
1002	An elite genetic algorithm for flexible job shop scheduling problem with extracted grey processing time. Applied Soft Computing Journal, 2022, 131, 109783.	7.2	11
1003	A Quality 4.0 Model for architecting industry 4.0 systems. Advanced Engineering Informatics, 2022, 54, 101801.	8.0	10
1004	Resource Allocation for Heterogeneous Computing Tasks in Wirelessly Powered MEC-enabled IIOT Systems. ACM Transactions on Management Information Systems, 2023, 14, 1-17.	2.8	1
1005	Enhanced image compression method exploiting NTT for internet of thing. International Journal of Circuit Theory and Applications, 0, , .	2.0	0
1006	PG-YOLO: A Novel Lightweight Object Detection Method for Edge Devices in Industrial Internet of Things. IEEE Access, 2022, 10, 123736-123745.	4.2	2
1007	Defense of Advanced Persistent Threat on Industrial Internet of Things With Lateral Movement Modeling. IEEE Transactions on Industrial Informatics, 2023, 19, 9619-9630.	11.3	4
1008	Noise-Boosted Convolutional Neural Network for Edge-Based Motor Fault Diagnosis With Limited Samples. IEEE Transactions on Industrial Informatics, 2023, 19, 9491-9502.	11.3	8
1009	Query Timing Analysis for Content-Based Wake-Up Realizing Informative IoT Data Collection. IEEE Wireless Communications Letters, 2023, 12, 327-331.	5.0	4
1010	Synchronization of Packet Coupled Low-Accuracy RC Oscillator Clocks for Wireless Networks. IEEE Transactions on Wireless Communications, 2023, 22, 4843-4857.	9.2	5
1011	Fault Diagnosis in Industrial Control Networks Using Transferability-Measured Adversarial Adaptation Network. IEEE Transactions on Network and Service Management, 2023, 20, 1430-1440.	4.9	4
1012	Multi-agent deep reinforcement learning for task offloading in group distributed manufacturing systems. Engineering Applications of Artificial Intelligence, 2023, 118, 105710.	8.1	7
1013	Project and Regulatory Control Strategies for Minimizing and Resolving Defects and Conflicts in the Low-Rise Residential Home-Building Process. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2023, 15, .	1.4	0
1014	Efficient and Anonymous Cross-Domain Authentication for IIoT Based on Blockchain. IEEE Transactions on Network Science and Engineering, 2023, 10, 899-910.	6.4	3
1015	Federated Learning-Based Privacy-Preserving Data Aggregation Scheme for IIoT. IEEE Access, 2023, 11, 6700-6707.	4.2	3

#	Article	IF	Citations
1016	EG-Four\$mathbb {Q}\$: An Embedded GPU-Based Efficient ECC Cryptography Accelerator for Edge Computing. IEEE Transactions on Industrial Informatics, 2023, 19, 7291-7300.	11.3	1
1017	Adaptive Model Verification for Modularized Industry 4.0 Applications. IEEE Access, 2022, 10, 125353-125364.	4.2	0
1018	Codesign of Industrial Wireless Sensor Networks and Consensus-Based Sequential Estimation for Process Industries. IEEE Transactions on Industrial Informatics, 2023, 19, 8995-9004.	11.3	0
1019	A Data Integrity Authentication Scheme in WSNs Based on Double Watermark. IEEE Internet of Things Journal, 2023, 10, 8245-8256.	8.7	0
1020	Resource Allocation and Retransmission Scheme for URLLC in Industrial Wireless Networks with Mixed Traffic. , 2022, , .		0
1021	A PUF-based Secure Bootstrap Protocol for Cyber-Physical System Networks. , 2022, , .		1
1022	On the Analysis of Aol-Reliability Tradeoff in Heterogeneous IIoT Networks. , 2022, , .		1
1023	Introducing k4.0s: a Model for Mixed-Criticality Container Orchestration in Industry 4.0., 2022, , .		2
1024	A Solution for Prediction and Tracking of Alzheimer Disease using Secure and Energy Efficient Internet-of-Things., 2022,,.		0
1025	Broadband Over-the-Air Computation for Federated Learning in Industrial IoT. , 2022, , .		0
1026	Optimal graph partitioning for time-sensitive flow scheduling towards digital twin networks. , 2022, , .		1
1027	Real-Time Energy Data Acquisition, Anomaly Detection, and Monitoring System: Implementation of a Secured, Robust, and Integrated Global IIoT Infrastructure with Edge and Cloud Al. Sensors, 2022, 22, 8980.	3.8	7
1028	Five Facets of 6G: Research Challenges and Opportunities. ACM Computing Surveys, 2023, 55, 1-39.	23.0	29
1029	PEASE: A PUF-Based Efficient Authentication and Session Establishment Protocol for Machine-to-Machine Communication in Industrial IoT. Electronics (Switzerland), 2022, 11, 3920.	3.1	2
1030	Few-shot learning for Defect Detection of Industrial Components. , 2022, , .		0
1031	A Survey of Authentication in Internet of Things-Enabled Healthcare Systems. Sensors, 2022, 22, 9089.	3.8	12
1032	Interfaces, Interactions, and Industry 4.0: A Framework for the User-Centered Design of Industrial User Interfaces in the Internet of Production. , 2023, , 361-388.		2
1033	Heterogeneous demand–capacity synchronization for smart assembly cell line based on artificial intelligence-enabled IIoT. Journal of Intelligent Manufacturing, 2024, 35, 539-554.	7.3	1

#	Article	IF	CITATIONS
1034	Adoption of Industry 4.0 in the TIC Industry: Systematic Review., 2022,,.		1
1035	Deep reinforcement learningâ€based joint optimization of computation offloading and resource allocation in Fâ€RAN. IET Communications, 2023, 17, 549-564.	2.2	6
1036	Low coercivity magnetoplasmonic crystal based on a thin permalloy film for magnetic field sensing applications. Optical Materials Express, 2023, 13, 171.	3.0	3
1037	Federated-Learning-based Decision Support for Industrial Internet of Things (IIoT)-based Printed Circuit Board Assembly Process. Journal of Grid Computing, 2022, 20, .	3.9	1
1038	Performance Analysis of OPC UA for Industrial Interoperability towards Industry 4.0. IoT, 2022, 3, 507-525.	3.8	5
1039	Multi-level Federated Learning for Industry 4.0 - A Crowdsourcing Approach. Procedia Computer Science, 2023, 217, 423-435.	2.0	3
1040	Compression scenarios for Federated Learning in Smart Manufacturing. Procedia Computer Science, 2023, 217, 436-445.	2.0	1
1041	A Critical Survey of EEG-Based BCI Systems for Applications in Industrial Internet of Things. IEEE Communications Surveys and Tutorials, 2023, 25, 184-212.	39.4	5
1042	Digital Manufacturing., 2023,, 65-80.		0
1043	On the development and deployment of an IIoT Infrastructure for the Fish Canning Industry. Procedia Computer Science, 2023, 217, 1095-1105.	2.0	1
1044	Connectivity Maximization in Non-Orthogonal Network Slicing Enabled Industrial Internet-of-Things With Multiple Services. IEEE Transactions on Wireless Communications, 2023, 22, 5642-5656.	9.2	4
1045	Ultra Wide Band communication for condition-based monitoring, a bridge between edge and cloud computing. Procedia Computer Science, 2023, 217, 1670-1677.	2.0	2
1046	Privacy-Preserving Data Aggregation Scheme Based on Federated Learning for IIoT. Mathematics, 2023, 11, 214.	2.2	4
1047	Efficient Revocable Anonymous Authentication Mechanism for Edge Intelligent Controllers. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	O
1048	Requirements, Deployments, and Challenges of LoRa Technology: A Survey. Computational Intelligence and Neuroscience, 2023, 2023, 1-15.	1.7	5
1049	An IIoT-Based Approach to the Integrated Management of Machinery in the Construction Industry. IEEE Access, 2023, 11, 6331-6350.	4.2	3
1050	Assessment of Industry 4.0 Adoption for Sustainability in Small and Medium Enterprises: A Fermatean Approach., 2023,, 187-212.		3
1051	A feasibility study of multi-mode intelligent fusion medical data transmission technology of industrial Internet of Things combined with medical Internet of Things. Internet of Things (Netherlands), 2023, 21, 100689.	7.7	10

#	Article	IF	CITATIONS
1052	RunPHI: Enabling Mixed-criticality Containers via Partitioning Hypervisors in Industry 4.0., 2022, , .		1
1053	A Survey and Comparison of Publish/Subscribe Protocols for the Industrial Internet of Things (IIoT). , 2022, , .		2
1054	Smart Agriculture IoT Network Communications Security Improvement., 2022,,.		2
1055	Time Sensitive Data Access for Massive Users: A Mean-Field Approximation Approach. , 2022, , .		O
1056	Implementation of an Embedded System into the Internet of Robotic Things. Micromachines, 2023, 14, 113.	2.9	4
1057	The Converged Scheduling for Time Sensitive Mission in Satellite Formation Flying. , 2022, , .		O
1058	Deep Reinforcement Learning for Data Freshness-oriented Scheduling in Industrial IoT., 2022, , .		0
1059	Social Well-Being for a Sustainable Future: The Influence of Trust in Big Business and Banks on Perceptions of Technological Development from a Life Satisfaction Perspective in Latin America. Sustainability, 2023, 15, 628.	3.2	4
1060	From Data of Internet of Things to Domain Knowledge: A Case Study of Exploration in Smart Agriculture. Communications in Computer and Information Science, 2022, , 567-576.	0.5	0
1061	Experimental Evaluation of the Layered Flow-Based Autonomous TSCH Scheduler. IEEE Access, 2023, 11, 3970-3982.	4.2	1
1062	Spectrum Sharing Schemes From 4G to 5G and Beyond: Protocol Flow, Regulation, Ecosystem, Economic. IEEE Open Journal of the Communications Society, 2023, 4, 464-517.	6.9	6
1063	Application-Aware Network Traffic Management in MEC-Integrated Industrial Environments. Future Internet, 2023, 15, 42.	3.8	1
1064	Anomaly Detection in Social-Aware IoT Networks. IEEE Transactions on Network and Service Management, 2023, 20, 3162-3176.	4.9	1
1065	Saving Energy and Spectrum in Enabling URLLC Services: A Scalable RL Solution. IEEE Transactions on Industrial Informatics, 2023, 19, 10265-10276.	11.3	3
1066	BE-TRDSS: Blockchain-Enabled Secure and Efficient Traceable-Revocable Data-Sharing Scheme in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 10821-10830.	11.3	3
1067	LoRa Performance in Industrial Environments: Analysis of Different ADR Algorithms. IEEE Transactions on Industrial Informatics, 2023, 19, 10501-10511.	11.3	4
1068	A Novel Traffic Classifier With Attention Mechanism for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 10799-10810.	11.3	3
1069	Network Coded Constrained Application Protocol With Improved Energy Efficiency for IIoT Networks. IEEE Internet of Things Journal, 2023, 10, 10893-10906.	8.7	3

#	Article	IF	CITATIONS
1070	Cost-effective Delay-bounded Topology Construction of Time-Sensitive Networking for Industrial Internet Applications. , 2022, , .		0
1071	Industry 4.0 in Metal Forming Industry Towards Automotive Applications: A Review. , 0, , 2.		2
1072	Analyzing the required skills and competencies in Industrial revolution 4.0 and 5.0: A Literature Review. , 2023, , .		1
1073	Physical Unclonable Function-Based Lightweight and Verifiable Data Stream Transmission for Industrial IoT. IEEE Transactions on Industrial Informatics, 2023, 19, 11573-11583.	11.3	1
1074	A Research of Wireless Effective Communication with Low Power Consumption for Internet of Things (IoT) Applications. , 2023, , .		2
1075	On the Connectivity Maximization in NOMA-Aided Industrial IoT With Multiple Services. IEEE Internet of Things Journal, 2023, 10, 15147-15158.	8.7	1
1076	Distributed Cross-Domain Optimization for Software Defined Industrial Internet of Things. Information (Switzerland), 2023, 14, 109.	2.9	0
1077	Traffic-Aware Re-Grouping for Load Balance in IEEE 802.11ah IoT Network Based on the Registered Backoff Time Mechanism. Computer Journal, $0$ , , .	2.4	O
1078	Towards adversarial realism and robust learning for IoT intrusion detection and classification. Annales Des Telecommunications/Annals of Telecommunications, 2023, 78, 401-412.	2.5	2
1079	Resource Allocation for Cognitive LEO Satellite Systems: Facilitating IoT Communications. Sensors, 2023, 23, 3875.	3.8	3
1080	Asymmetric hybrid full-duplex POF-based VLC transmission links. Optik, 2023, 278, 170701.	2.9	2
1081	Conditional privacy-preserving message authentication scheme for cross-domain Industrial Internet of Things. Ad Hoc Networks, 2023, 144, 103137.	5 <b>.</b> 5	4
1082	Enabling the twin transitions: Digital technologies support environmental sustainability through lean principles. Sustainable Production and Consumption, 2023, 38, 13-27.	11.0	8
1083	An accurate RSS/AoA-based localization method for internet of underwater things. Ad Hoc Networks, 2023, 145, 103177.	5.5	5
1084	Accelerating the Deployment of observant Energy Efficient Lighting System for Smart Cities., 2022,,.		0
1085	Artificial Intelligence, Big Data, and Machine Learning in Industry 4.0., 2022, , 2101-2109.		11
1086	A Hybrid Attack Graph Analysis Method based on Model Checking. , 2022, , .		0
1087	Industrial Internet Sensor Node Construction and System Construction Based on Blockchain Technology. Journal of Sensors, 2023, 2023, 1-13.	1.1	1

#	Article	IF	CITATIONS
1088	IoT-Based Cotton Plant Pest Detection and Smart-Response System. Applied Sciences (Switzerland), 2023, 13, 1851.	2.5	8
1089	Design of a Smart Factory Based on Cyber-Physical Systems and Internet of Things towards Industry 4.0. Applied Sciences (Switzerland), 2023, 13, 2156.	2.5	44
1090	EIFDAA: Evaluation of an IDS with function-discarding adversarial attacks in the IIoT. Heliyon, 2023, 9, e13520.	3.2	3
1091	Data Is the New Oil–Sort of: A View on Why This Comparison Is Misleading and Its Implications for Modern Data Administration. Future Internet, 2023, 15, 71.	3.8	4
1092	Joint Resource Allocation and Location Optimization for UAV-Assisted IoT Wireless Networks in the 6G Era. , 2022, , .		0
1093	Data storage mechanism of industrial IoT based on LRC sharding blockchain. Scientific Reports, 2023, 13, .	3.3	3
1094	Statistical Learning-based Adaptive Network Access for the Industrial Internet-of-Things. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	1
1095	Advancing Security in the Industrial Internet of Things Using Deep Progressive Neural Networks.  Mobile Networks and Applications, 2023, 28, 782-794.	3.3	4
1096	IoT Data Validation Using Blockchain andÂDedicated Cloud Platforms. Lecture Notes in Networks and Systems, 2023, , 208-216.	0.7	0
1097	A Multinode Collaborative Decision-Making Scheme for Privacy Protection in IIoT. IEEE Transactions on Industrial Informatics, 2023, 19, 11531-11541.	11.3	1
1098	A Tutorial on Internet of Behaviors: Concept, Architecture, Technology, Applications, and Challenges. IEEE Communications Surveys and Tutorials, 2023, 25, 1227-1260.	39.4	7
1099	A Measurement Campaign of Industrial Environment for Ultra Reliable IIoT Systems. , 2022, , .		1
1100	Big Data Resource Integration Technology of Industrial Production Logistics Supply Chain Based on Internet of Things Technology. , 2022, , .		0
1101	An approach for assessing industrial IoT data sources to determine their data trustworthiness. Internet of Things (Netherlands), 2023, 22, 100735.	7.7	2
1102	On-Site Monitoring of Forging Press: An Application of Volapu IIoT Suite. , 2022, , .		0
1103	DANTD: A Deep Abnormal Network Traffic Detection Model for Security of Industrial Internet of Things Using High-Order Features. IEEE Internet of Things Journal, 2023, 10, 21143-21153.	8.7	7
1104	Spatialâ€ŧemporal aware service composition for production factors under industrial internet. Concurrency Computation Practice and Experience, 2023, 35, .	2.2	0
1105	DACODE: Distributed adaptive communication framework for energy efficient industrial IoT-based heterogeneous WSN. ICT Express, 2023, 9, 1085-1094.	4.8	1

#	Article	IF	CITATIONS
1106	No Permanent Friend or Enemy: Impacts of the IIoT-Based Platform in the Maintenance Service Market. Management Science, 2023, 69, 6800-6817.	4.1	4
1107	Efficient Resource Configuration and Bandwidth Allocation for IIoT with Edge-Cloud Computing. , 2022, , .		0
1108	Robust Trajectory and Offloading for Energy-Efficient UAV Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2024, 20, 38-49.	11.3	0
1109	DataStream XES Extension: Embedding IoT Sensor Data into Extensible Event Stream Logs. Future Internet, 2023, 15, 109.	3.8	5
1110	ABIDI: A Reference Architecture forÂReliable Industrial Internet ofÂThings. Lecture Notes in Networks and Systems, 2023, , 26-39.	0.7	0
1111	Securing Access to Internet of Medical Things Using a Graphical-Password-Based User Authentication Scheme. Sustainability, 2023, 15, 5207.	3.2	2
1112	Design of Autoconfigurable Random Access NOMA for URLLC Industrial IoT Networking. IEEE Transactions on Industrial Informatics, 2024, 20, 190-200.	11.3	3
1113	Leveraging the Role of Dynamic Reconfigurable Antennas in Viewpoint of Industry 4.0 and Beyond. Research, 2023, 6, .	5.7	0
1114	Anomaly Detection in Encrypted Identity Resolution Traffic based on Machine Learning., 2022,,.		0
1115	A Flexible Retransmission Scheme for Reliable and Real-Time Transmissions in Industrial Wireless Networks for Factory Automation. IEEE Transactions on Vehicular Technology, 2023, 72, 10867-10878.	6.3	2
1116	Security Threats, Countermeasures, and Challenges of Digital Supply Chains. ACM Computing Surveys, 2023, 55, 1-40.	23.0	12
1117	BPMN++: Comprehensive Business Process Modeling for Industrial Internet Application. , 2022, , .		1
1118	Two-user Cooperative Physical Layer Authentication in Non-Coherent Massive MIMO System., 2022,,.		1
1119	Indoor Localization-based Energy Management for Smart Home. , 2022, , .		0
1120	Experiences in a Cyber-Physical Co-Simulation Testbed Development for a Smart-er Distribution Network., 2023,,.		0
1121	A Brief Overview of Wireless Sensor Networks for Internet of Things. , 2022, , .		1
1122	Multi-domain ubiquitous digital twin model for information management of complex infrastructure systems. Advanced Engineering Informatics, 2023, 56, 101951.	8.0	13
1123	Intelligent Microsystem for Sound Event Recognition in Edge Computing Using End-to-End Mesh Networking. Sensors, 2023, 23, 3630.	3.8	O

#	Article	IF	CITATIONS
1124	Edge Computing Data Optimization for Smart Quality Management: Industry 5.0 Perspective. Sustainability, 2023, 15, 6032.	3.2	6
1125	Data Converter Design Space Exploration for IoT Applications: An Overview of Challenges and Future Directions. , 2023, , 111-130.		1
1126	Maximizing the Security Level of Real-Time Software While Preserving Temporal Constraints. IEEE Access, 2023, 11, 35591-35607.	4.2	1
1127	Overview of Industrial Wireless Networks. Wireless Networks, 2023, , 1-12.	0.5	0
1128	3D Data Fusion and Registration Technology of Substation Based on Digital Twin Space Analysis. , 2022, , .		0
1129	Joint Design of Communication and Computing for Digital Twin Enabled Aircraft Final Assembly. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	O
1130	Industrial Internet Identity Resolution+5G Full Connection Digital Factory Research. Applied Sciences (Switzerland), 2023, 13, 4945.	2.5	0
1131	Development of a Network Manager Compatible with WirelessHART Standard. Journal of Control, Automation and Electrical Systems, 0, , .	2.0	O
1132	An AoTI-Driven Joint Sampling Frequency and Access Selection Optimization for Industrial Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2023, , 1-15.	6.3	0
1133	Decentralized P2P Federated Learning for Privacy-Preserving and Resilient Mobile Robotic Systems. IEEE Wireless Communications, 2023, 30, 82-89.	9.0	34
1134	Microservice-Oriented Architecture for Industry 4.0. Eng, 2023, 4, 1179-1197.	2.4	1
1135	Transient and recyclable organic microwave resonator using nanocellulose for 5G and Internet of Things applications. Chemical Engineering Journal, 2023, 466, 143061.	12.7	5
1136	A Calibrated Linguistic Semantic Based on Group Consensus Decision Making for FMEA of Industrial Internet Platform. International Journal of Fuzzy System Applications, 2023, 12, 1-20.	0.7	0
1137	A review of reference architectures for digital manufacturing: Classification, applicability and open issues. Computers in Industry, 2023, 149, 103923.	9.9	11
1138	A Sub-mW Cortex-M4 Microcontroller Design for IoT Software-Defined Radios. IEEE Open Journal of Circuits and Systems, 2023, 4, 165-175.	1.9	1
1139	Challenges of Organizations' Adoption of Industrial IoT Platforms â€" Results of a Delphi Study. International Journal of Innovation and Technology Management, 2023, 20, .	1.4	1
1140	The impact of dynamic capabilities on circular economy: the mediating effect of the industrial InternetÂof things. Journal of Manufacturing Technology Management, 2023, 34, 873-895.	6.4	5
1141	A pipelining task offloading strategy via delay-aware multi-agent reinforcement learning in Cybertwin-enabled 6G network. Digital Communications and Networks, 2023, , .	5.0	1

#	Article	IF	CITATIONS
1142	Clustered federated learning architecture for network anomaly detection in large scale heterogeneous IoT networks. Computers and Security, 2023, 131, 103299.	6.0	6
1143	Industry 4.0 and smart manufacturing. , 2022, , .		5
1144	Federated Learning Based Privacy Ensured Sensor Communication in IoT Networks: A Taxonomy, Threats and Attacks. IEEE Access, 2023, 11, 42248-42275.	4.2	3
1145	Tripleâ€band metasurface absorber for RF energy harvesting applications. Microwave and Optical Technology Letters, 2023, 65, 2252-2261.	1.4	9
1146	Toward Federated Learning Models Resistant to Adversarial Attacks. IEEE Internet of Things Journal, 2023, 10, 16917-16930.	8.7	2
1147	A Continuous Object Tracking Scheme based on Two-stage Prediction in Industrial Internet of Things. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	0
1148	Cloud-Fog Automation: Vision, Enabling Technologies, and Future Research Directions. IEEE Transactions on Industrial Informatics, 2024, 20, 1039-1054.	11.3	3
1149	RRCNN: Request Response-Based Convolutional Neural Network for ICS Network Traffic Anomaly Detection. Computers, Materials and Continua, 2023, 75, 5743-5759.	1.9	1
1150	On the Design of NOMA-Enhanced Backscatter Communication Systems. IEEE Access, 2023, 11, 44759-44771.	4.2	2
1151	Accurate Anomaly Detection With Energy Efficiency in IoT–Edge–Cloud Collaborative Networks. IEEE Internet of Things Journal, 2023, 10, 16959-16974.	8.7	2
1152	Throughput Maximization for Multi-hop T2T Backscatter Communications in Cooperative IoT., 2023,,.		0
1153	Anomaly classification in industrial Internet of things: A review. Intelligent Systems With Applications, 2023, 18, 200232.	3.0	0
1154	Smart Warehousing as a Wave of the Future. Logistics, 2023, 7, 30.	4.3	4
1155	Editorial notes: Industrial Internet-of-Things (IIoT)-enabled digital servitisation. International Journal of Production Research, 2023, 61, 3844-3848.	7.5	0
1156	High Gain Farming and Data Analytics using IoT., 2023,,.		0
1157	DSAC-Configured Differential Evolution for Cloud–Edge–Device Collaborative Task Scheduling. IEEE Transactions on Industrial Informatics, 2024, 20, 1753-1763.	11.3	0
1158	A Study of FR2 Radio Propagation with Focus on Mobility Management in an Industrial Scenario. , 2023, , .		0
1159	Sensor calibration techniques for IoT networks. AIP Conference Proceedings, 2023, , .	0.4	0

#	Article	IF	CITATIONS
1160	A Taxonomy of IoT Security Attacks and Emerging Solutions. , 2023, , .		1
1161	Intrusion Detection Framework for Industrial Internet of Things Using Software Defined Network. Sustainability, 2023, 15, 9001.	3.2	2
1162	Data Prediction-Based Energy-Efficient Architecture for Industrial IoT. IEEE Sensors Journal, 2023, 23, 15856-15866.	4.7	3
1163	A novel method to detect cyber-attacks in IoT/IIoT devices on the modbus protocol using deep learning. Cluster Computing, 2023, 26, 2947-2973.	5.0	2
1164	A digital twin-driven dynamic path planning approach for multiple automatic guided vehicles based on deep reinforcement learning. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2024, 238, 488-499.	2.4	1
1165	A framework for AI-based self-adaptive cyber-physical process systems. IT - Information Technology, 2023, .	0.9	0
1166	Recent and Emerging Technologies in Industrial IoT. Advances in Wireless Technologies and Telecommunication Book Series, 2023, , 50-72.	0.4	0
1167	Dependable Mobile Federated Learning Classifications Focused for Mobile Intelligent Source Distribution System in Big Data Analytics using Artificial Internet of Things. , 2023, , .		0
1168	Predicting Wireless Channel Quality by Means of Moving Averages and Regression Models., 2023,,.		1
1169	A Cooperation-Free Resource Allocation Algorithm Enhanced by Reinforcement Learning for Coexisting IIoTs., 2023,,.		0
1170	Al Model for Blockchain Based Industrial IoT and Big Data. , 2023, , 55-81.		2
1171	An IoT architecture to integrate different machine tools into a compound OPC UA interface. IT - Information Technology, 2023, .	0.9	0
1172	Effective and Secure Task Offloading in IoT Edge Computing through a Multi-feedback Trust Mechanism. , 2023, , .		0
1173	A Survey of Industry in Cambodia and Future Prospects Industry 4.0. , 2023, , .		0
1174	Industry 4.0: Developing Center of Excellence for PLC Lab in the field of Automation. , 2023, , .		0
1175	A Pairing-Free Certificateless Searchable Public Key Encryption Scheme for Industrial Internet of Things. IEEE Access, 2023, 11, 58754-58764.	4.2	0
1176	O-RAN Perspective on Industrial Internet of Things: A SWOT Analysis. , 2023, , .		2
1177	Navigating the future: exploring technological advancements and emerging trends in the sustainable ornamental industry. Frontiers in Environmental Science, $0,11,.$	3.3	6

#	Article	IF	CITATIONS
1178	Sensors, Machine Vision, and Sensor Networks. Springer Handbooks, 2023, , 315-333.	0.6	1
1179	Architecture for Initial States Algorithm for Blockchain Scalability in Local OnPrem IIoT Environments. EAI/Springer Innovations in Communication and Computing, 2023, , 275-286.	1.1	0
1180	Criticality-aware Monitoring and Orchestration for Containerized Industry 4.0 Environments. Transactions on Embedded Computing Systems, 2024, 23, 1-28.	2.9	0
1181	PhishCatcher: Client-Side Defense Against Web Spoofing Attacks Using Machine Learning. IEEE Access, 2023, 11, 61249-61263.	4.2	0
1182	Real-Time Anomaly Detection with Subspace Periodic Clustering Approach. Applied Sciences (Switzerland), 2023, 13, 7382.	2.5	1
1183	Secure STBC-Aided NOMA in Cognitive IIoT Networks. IEEE Internet of Things Journal, 2024, 11, 1256-1271.	8.7	1
1184	DTAIS: Distributed Trusted Active Identity Resolution Systems for the Industrial Internet. Digital Communications and Networks, 2023, , .	5.0	0
1185	An Industrial Internet of Things-oriented Malicious Traffic Detection Network with Neural Network Partial Architecture Search., 2023,,.		0
1186	Secure Data Sharing for Cross-domain Industrial IoT Based on Consortium Blockchain., 2023,,.		0
1187	A systematic survey on content caching in ICN and ICN-IoT: Challenges, approaches and strategies. Computer Networks, 2023, 233, 109896.	5.1	3
1188	A Survey of Next-generation Computing Technologies in Space-air-ground Integrated Networks. ACM Computing Surveys, 2024, 56, 1-40.	23.0	3
1189	Disruptive technologies to improve the performance of microalgae cultures. , 2023, , 529-536.		0
1190	Semantic information processing for interoperability in the Industrial Internet of Things. Fundamental Research, 2024, 4, 8-12.	3.3	1
1191	Optimizing Age of Information in Polar-Coded Status Update System. IEEE Internet of Things Journal, 2024, 11, 1285-1300.	8.7	0
1192	Application of Modular Residue Classes Codes in an Authentication Protocol for Satellite Internet Systems. IEEE Access, 2023, 11, 71624-71633.	4.2	0
1193	Design Elements of a Platform-Based Ecosystem for Industry Applications. , 2023, , 1-22.		0
1194	The Human-Centric Metaverse: A Survey. , 2023, , .		10
1195	A novel detection and defense mechanism against false data injection attack in smart grids. IET Generation, Transmission and Distribution, 0, , .	2.5	1

#	Article	IF	CITATIONS
1196	A Comprehensive Performance Comparison of IEEE 802.15.4 DSME and TSCH in a Realistic IoT Scenario for Industrial Applications. ACM Transactions on Internet of Things, 2023, 4, 1-30.	4.6	0
1197	A Distributed Sensor System Based on Cloud-Edge-End Network for Industrial Internet of Things. Future Internet, 2023, 15, 171.	3.8	4
1198	A Comprehensive Survey for IoT Security Datasets Taxonomy, Classification and Machine Learning Mechanisms. Computers and Security, 2023, 132, 103283.	6.0	7
1199	Robotics and Artificial Intelligence in the Nuclear Industry: From Teleoperation to Cyber Physical Systems. Studies in Computational Intelligence, 2023, , 123-166.	0.9	0
1200	Blockchain and Machine Learning: A Critical Review on Security. Information (Switzerland), 2023, 14, 295.	2.9	5
1201	EEM: An elastic event matching framework for content-based publish/subscribe systems. Computer Networks, 2023, 232, 109837.	5.1	0
1202	EQRSRL: an energy-aware and QoS-based routing schema using reinforcement learning in IoMT. Wireless Networks, 2023, 29, 3239-3253.	3.0	8
1203	Federated Learning and Blockchain Integration for Privacy Protection in the Internet of Things: Challenges and Solutions. Future Internet, 2023, 15, 203.	3.8	3
1204	Using Randomization in Self-organized Synchronization for Wireless Networks. ACM Transactions on Autonomous and Adaptive Systems, 2023, 18, 1-20.	0.8	1
1205	High-speed Light Detection Sensor for Hardware Security in Standard CMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, , 1-1.	3.0	0
1206	A deep reinforce learning-based intrusion detection method for safeguarding Internet of Things. , 2023, , .		0
1207	A Basic Description Logic for Service-Oriented Architecture in Factory Planning and Operational Control in the Age of Industry 4.0. Applied Sciences (Switzerland), 2023, 13, 7610.	2.5	1
1208	Towards big data driven construction industry. Journal of Industrial Information Integration, 2023, 35, 100483.	6.4	9
1209	Implementation of a monitoring system for a photovoltaic installation based on IoT technology. Journal of Physics: Conference Series, 2023, 2538, 012003.	0.4	0
1210	A quantum resistant multi-user signcryption scheme featuring key invisibility for Internet of Things. Journal of Information Security and Applications, 2023, 76, 103549.	2.5	0
1211	Security and Privacy in 5G-IIoT Smart Factories: Novel Approaches, Trends, and Challenges. Mobile Networks and Applications, 0, , .	3.3	3
1212	Resource Efficient Federated Learning for Deep Anomaly Detection in Industrial IoT applications. , 2023, , .		0
1213	Priority-aware Access Strategy for GF-NOMA System in IIoT: the Device-specific Allocation Approach. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	O

#	Article	IF	CITATIONS
1214	Data-Driven Resource Allocation for Deep Learning in IoT Networks. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	2
1215	Industrial Internet of Things enabled technologies, challenges, and future directions. Computers and Electrical Engineering, 2023, 110, 108847.	4.8	6
1216	A Compact Wideband Millimeter-Wave Beam-Scanning Antenna Array for Industry 4.0 and Beyond Applications. , 2023, , .		0
1217	A model-driven approach for industry 4.0. AIP Conference Proceedings, 2023, , .	0.4	0
1218	Link Quality Estimation in Wireless Software Defined Network with a Reliable Control Plane., 2023,,.		0
1219	Advanced Persistent Threats and Their Defense Methods in Industrial Internet of Things: A Survey. Mathematics, 2023, 11, 3115.	2.2	4
1220	HANNA: Human-friendly provisioning and configuration of smart devices. Engineering Applications of Artificial Intelligence, 2023, 126, 106745.	8.1	1
1221	An Improved Approach in Cloud-Assisted IoT Infrastructure with Anonymous Key Issuing. Algorithms for Intelligent Systems, 2023, , 139-145.	0.6	0
1222	Analysis of multi-dimensional Industrial IoT (IIoT) data in Edge–Fog–Cloud based architectural frameworks: A survey on current state and research challenges. Journal of Industrial Information Integration, 2023, 35, 100504.	6.4	6
1224	Delay Analysis of TSN Based Industrial Networks With Preemptive Traffic Using Network Calculus. , 2023, , .		0
1225	An Overview of IoT and Smart Application Environments: Research and Challenges. Lecture Notes in Networks and Systems, 2023, , 111-124.	0.7	2
1226	Ontology-based reasoning to reconFigure industrial processes for energy efficiency. , 2023, , .		0
1227	Minimal-Overlap Centrality for Multi-Gateway Designation in Real-Time TSCH Networks. Transactions on Embedded Computing Systems, 2024, 23, 1-17.	2.9	0
1228	Using IoT Technology forÂtheÂSkilled Crafts. Lecture Notes in Business Information Processing, 2023, , 48-63.	1.0	0
1229	An Efficient and Reliable I/O Mapping Protocol for Industrial Cyber-Physical Systems. , 2023, , .		0
1230	Performance analysis and optimization of multiple IIoT devices radio frequency energy harvesting NOMA mobile edge computing networks. AEJ - Alexandria Engineering Journal, 2023, 79, 1-20.	6.4	1
1231	A Comprehensive Survey on Collaborative Data-access Enablers in the IIoT. ACM Computing Surveys, 2024, 56, 1-37.	23.0	1
1232	Control-Aware Resource Scheduling Method for Wireless Networked Control Systems. IEEE Sensors Journal, 2023, 23, 21946-21955.	4.7	1

#	Article	IF	CITATIONS
1233	A Smart Control System for the Oil Industry Using Text-to-Speech Synthesis Based on IIoT. Electronics (Switzerland), 2023, 12, 3380.	3.1	0
1234	Visible Light Technologies for the Industrial Internet of Things. , 2023, , .		0
1235	A Secure Power System Distributed State Estimation via a Consensus-Based Mechanism and a Cooperative Trust Management Strategy. IEEE Transactions on Industrial Informatics, 2024, 20, 3002-3014.	11.3	0
1236	Towards the Cognitive Factory in Industry 5.0: From Concept to Implementation. Smart Cities, 2023, 6, 1901-1921.	9.4	1
1237	Energy harvesting technology based on moisture-responsive actuators. Journal of Materials Chemistry A, 0, , .	10.3	1
1238	Research on the security design of industrial control mobile terminal based on trusted software base., 2023,,.		0
1239	Cellular Internet of Things: Use cases, technologies, and future work. Internet of Things (Netherlands), 2023, 24, 100910.	7.7	3
1240	Streamlining Industrial Wastewater Management Through Real Time IoT Cloud Monitoring. , 2023, , .		0
1241	A Comprehensive Review for Four-Dimensional Trust Management in Distributed IoT. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	0
1242	Toward a Secure Industry 4.0: An SDN-Assisted Approach "SSI4― Communications in Computer and Information Science, 2023, , 383-396.	0.5	0
1243	Optimal Scheduling Policy for Minimizing Age of Information With a Relay. IEEE Internet of Things Journal, 2024, 11, 5623-5637.	8.7	0
1244	A Survey on Industrial Internet of Things Security: Requirements, Attacks, Al-Based Solutions, and Edge Computing Opportunities. Sensors, 2023, 23, 7470.	3.8	0
1245	Signaling Storm Detection in IIoT Network based on the Open RAN Architecture. , 2023, , .		2
1246	Revocable and Unbounded Attribute-Based Encryption Scheme With Adaptive Security for Integrating Digital Twins in Internet of Things. IEEE Journal on Selected Areas in Communications, 2023, 41, 3306-3317.	14.0	4
1247	Internet of things empowering operations management; A systematic review based on bibliometric and content analysis., 2023, 11, 100096.		3
1248	A Masked One-Dimensional Convolutional Autoencoder for Bearing Fault Diagnosis Based on Digital Twin Enabled Industrial Internet of Things. IEEE Journal on Selected Areas in Communications, 2023, 41, 3242-3253.	14.0	0
1249	Modeling and analysis of industrial IoT reliability to cascade failures: An information-service coupling perspective. Reliability Engineering and System Safety, 2023, 239, 109517.	8.9	4
1250	Smart batch process: The evolution from 1D and 2D to new 3D perspectives in the era of Big Data. Journal of Process Control, 2023, 130, 103088.	3.3	О

#	Article	IF	CITATIONS
1251	A beginner's guide to infrastructureâ€less networking concepts. IET Networks, 0, , .	1.8	2
1252	Minimizing the computation latency of FDMAâ€based wireless powered edge computing network. IET Communications, 2023, 17, 2030-2039.	2.2	0
1254	Enhancing IoT network security through deep learning-powered Intrusion Detection System. Internet of Things (Netherlands), 2023, 24, 100936.	7.7	9
1255	Joint Differential Game and Double Deep Q-Networks for Suppressing Malware Spread in Industrial Internet of Things. IEEE Transactions on Information Forensics and Security, 2023, 18, 5302-5315.	6.9	7
1256	A Survey on Blockchain-Based Federated Learning and Data Privacy. , 2023, , .		3
1257	IoT Cloud Convergence Use Cases: Opportunities, Challengesâ€"Comprehensive Survey. Smart Innovation, Systems and Technologies, 2023, , 437-446.	0.6	0
1258	Computation Offloading for Industrial Internet of Things: A Cooperative Approach. , 2023, , .		0
1259	A Portable DSP Coprocessor Design Using RISC-V Packed-SIMD Instructions., 2023,,.		0
1260	Analysing the Applications of Cloud Computing in Smart Agriculture. Advances in Environmental Engineering and Green Technologies Book Series, 2023, , 100-119.	0.4	0
1261	Secure Crowdsourced Blockchain Computation Intelligence for IoT Systems. , 2023, , .		0
1263	A Critical Overview of Industrial Internet of Things Security and Privacy Issues Using a Layer-Based Hacking Scenario. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	0
1264	Intelligent Monitoring and Scheduling of Real-time Dynamic Data Based on Digital Twin. , 2023, , .		0
1265	Blockchain Performance in Industry 4.0: Drivers, use cases, and future directions. Journal of Industrial Information Integration, 2023, 36, 100513.	6.4	0
1266	Fed-Inforce-Fusion: A federated reinforcement-based fusion model for security and privacy protection of IoMT networks against cyber-attacks. Information Fusion, 2024, 101, 102002.	19.1	3
1267	PBCLR: Prediction-based control-plane load reduction in a software-defined IoT network. Internet of Things (Netherlands), 2023, 24, 100934.	7.7	0
1268	5G Deployment Models and Configuration Choices for Industrial Cyber-Physical Systems – A State of Art Overview. , 2023, 1, 236-256.		1
1269	Research on Edge Computing Access Platform Architecture and components. , 2023, , .		0
1270	Retrofitting Integrity Protection into Unused Header Fields of Legacy Industrial Protocols., 2023,,.		0

#	Article	IF	CITATIONS
1271	CHR: A Novel Channel-Hopping-Based Retransmission Scheme in WIA-FA Networks. IEEE Internet of Things Journal, 2024, 11, 7107-7115.	8.7	0
1272	Recent Developments on Smart Manufacturing. Environmental Footprints and Eco-design of Products and Processes, 2024, , 17-28.	1.1	0
1273	Time Estimation for a New Block Generation in Blockchain-Enabled Internet of Things. IEEE Transactions on Network and Service Management, 2024, 21, 535-557.	4.9	0
1274	<i>Healthcare-CT</i> : Solid PoD and Blockchain-Enabled Cyber Twin Approach for Healthcare 5.0 Ecosystems. IEEE Internet of Things Journal, 2024, 11, 6119-6130.	8.7	0
1275	FedLoop: Heterogeneity Mitigation in Federated Learning. , 2023, , .		0
1277	Anomaly Detection and Resolution on the Edge: Solutions and Future Directions. , 2023, , .		0
1278	Security in modern manufacturing systems: integrating blockchain in artificial intelligence-assisted manufacturing. International Journal of Production Research, 2024, 62, 1041-1071.	<b>7.</b> 5	0
1279	An Adaptation Scheme for 5G and EtherCAT Integration. , 2023, , .		0
1280	Intelligent-Technology-Empowered Active Emergency Command Strategy for Urban Hazardous Chemical Disaster Management. Sustainability, 2023, 15, 14369.	3.2	0
1281	Exploring Trust Modeling and Management Techniques in the Context of Distributed Wireless Networks: A Literature Review. IEEE Access, 2023, 11, 106803-106832.	4.2	0
1282	A Distributed Testbed for Wireless Embedded Devices. , 2023, , .		0
1283	Industrial data monetization: A blockchain-based industrial IoT data trading system. Internet of Things (Netherlands), 2023, 24, 100959.	7.7	1
1284	Index-Modulated Metasurface Transceiver Design using Reconfigurable Intelligent Surfaces for 6G Wireless Networks. IEEE Journal on Selected Topics in Signal Processing, 2023, , 1-16.	10.8	2
1285	A new location verification protocol and blockchain-based drone rental mechanism in smart farming. Computers and Electronics in Agriculture, 2023, 214, 108267.	7.7	2
1286	Hypernetworks-Based Hierarchical Federated Learning on Hybrid Non-IID Datasets for Digital Twin in Industrial IoT. IEEE Transactions on Network Science and Engineering, 2024, 11, 1413-1423.	6.4	0
1287	Current monitoring for a fused filament fabrication additive manufacturing process using an Internet of Things system. Manufacturing Letters, 2023, 35, 933-939.	2.2	0
1288	Neuro-Symbolic Empowered Denoising Diffusion Probabilistic Models for Real-Time Anomaly Detection in Industry 4.0: Wild-and-Crazy-Idea Paper. , 2023, , .		0
1289	DCS secure communication scheme based on national cipher algorithm. , 2023, , .		0

#	Article	IF	CITATIONS
1290	Blockchain and federated learning-based intrusion detection approaches for edge-enabled industrial IoT networks: a survey. Ad Hoc Networks, 2024, 152, 103320.	5 <b>.</b> 5	7
1291	LEACH-D: A low-energy, low-delay data transmission method for industrial internet of things wireless sensors. Internet of Things and Cyber-physical Systems, 2024, 4, 129-137.	8.7	0
1292	Federated malware detection based on manyâ€objective optimization in crossâ€architectural <scp>loT</scp> . Concurrency Computation Practice and Experience, 2024, 36, .	2.2	0
1293	Federated Learning in Industrial IoT: A Privacy-Preserving Solution That Enables Sharing of Data in Hydrocarbon Explorations. IEEE Transactions on Industrial Informatics, 2024, 20, 4337-4346.	11.3	0
1295	Research on design of IoT based system for crop monitoring under controlled conditions. AIP Conference Proceedings, 2023, , .	0.4	0
1296	Fuzzy Logic and Its Application in the Assessment of Information Security Risk of Industrial Internet of Things. Symmetry, 2023, 15, 1958.	2.2	1
1297	Clustering-Based Cooperative Computation Offloading Game for Dependent Tasks in Industrial Internet of Things Systems. , 2023, , .		0
1298	Trust-Awareness to Secure Swarm Intelligence from Data Injection Attack. , 2023, , .		1
1299	On the Use of Artificial Neural Networks to Predict the Quality of Wi-Fi Links. IEEE Access, 2023, 11, 120082-120094.	4.2	0
1300	A Group Teaching Optimization-Based Approach for Energy and QoS-Aware Internet of Things Services Composition. Journal of Network and Systems Management, 2024, 32, .	4.9	0
1301	A Survey on the Role of Industrial IoT in Manufacturing for Implementation of Smart Industry. Sensors, 2023, 23, 8958.	3.8	0
1302	Event-Based Security Control for Markov Jump Cyber–Physical Systems under Denial-of-Service Attacks: A Dual-Mode Switching Strategy. Applied Sciences (Switzerland), 2023, 13, 11815.	2.5	0
1304	Direct Current Triboelectric Nanogenerators, a Perspective from Material Selections. Nanoenergy Advances, 2023, 3, 343-375.	7.7	2
1305	Unlocking theÂPower ofÂSemantic Interoperability inÂIndustry 4.0: AÂComprehensive Overview. Lecture Notes in Computer Science, 2023, , 82-96.	1.3	1
1306	How to manage massive spatiotemporal dataset from stationary and non-stationary sensors in commercial DBMS?. Knowledge and Information Systems, 2024, 66, 2063-2088.	3.2	0
1307	A critical review of future aspects of digitalization next generation Li-ion batteries manufacturing process. Journal of Energy Storage, 2023, 74, 109209.	8.1	0
1308	Hybrid information systems modeling technology for business process analysis based on the internet of things. Åalkkakrìm Universitetìnìn̦ HabarÅ¡ysy Tehnika Ä¡ylymdar, 2023, , 19-28.	0.0	0
1309	Anomaly Detection in Industrial Machinery Using IoT Devices and Machine Learning: A Systematic Mapping. IEEE Access, 2023, 11, 128288-128305.	4.2	1

#	Article	IF	CITATIONS
1310	Research on the Security Reinforcement Method of Industrial Internet Identification Data Based on Blockchain Technology. , 2023, , .		0
1311	Rethinking development and major research plans of industrial internet in China. Fundamental Research, 2023, , .	3.3	2
1312	An Embedded Low-Cost Solution for a Fog Computing Device on the Internet of Things. , 2023, , .		0
1313	IESF: Interval Event Streaming Format for the Data Lake of Production. , 2023, , .		0
1314	Dynamic self-correcting key performance indicator anomaly detection algorithm. Nondestructive Testing and Evaluation, $0$ , , $1$ -17.	2.1	0
1317	DTL-IDS: An optimized Intrusion Detection Framework using Deep Transfer Learning and Genetic Algorithm. Journal of Network and Computer Applications, 2024, 221, 103784.	9.1	2
1318	IoT-Enabled Sensors in Automation Systems and Their Security Challenges. , 2023, 7, 1-4.		2
1319	Real-Time Performance of Industrial IoT Communication Technologies: A Review. IEEE Internet of Things Journal, 2024, 11, 7399-7410.	8.7	2
1320	Joint Devices and IRSs Association for Terahertz Communications in Industrial IoT Networks. IEEE Transactions on Green Communications and Networking, 2024, 8, 375-390.	5.5	1
1321	Process-Oriented Design Paradigm for Automatic Code Generation in Manufacturing. , 2023, , .		0
1322	Robotic Arm Dataset (RoAD): A Dataset to Support the Design and Test of Machine Learning-Driven Anomaly Detection in a Production Line. , 2023, , .		0
1323	A Tiny Transformer-Based Anomaly Detection Framework for IoT Solutions. IEEE Open Journal of Signal Processing, 2023, 4, 462-478.	3.5	0
1324	Deep Learning-Driven Anomaly Detection for Green IoT Edge Networks. IEEE Transactions on Green Communications and Networking, 2024, 8, 498-513.	5.5	0
1325	Utilizing blockchains in opportunistic networks for integrity and confidentiality. Blockchain: Research and Applications, 2024, 5, 100167.	6.7	1
1326	Large-scale hybrid task scheduling in cloud-edge collaborative manufacturing systems with FCRN-assisted random differential evolution. International Journal of Advanced Manufacturing Technology, 0, , .	3.0	0
1327	Cyber-Physical Security System in Smart Grid-A Review. , 2023, , .		0
1328	A Completely Distributed Cloudlet Framework Using 410c SoC., 2023,,.		1
1329	ChatGPT-like large-scale foundation models for prognostics and health management: A survey and roadmaps. Reliability Engineering and System Safety, 2024, 243, 109850.	8.9	3

#	Article	IF	CITATIONS
1330	Connectivity Standards Alliance Matter: State of the art and opportunities. Internet of Things (Netherlands), 2024, 25, 101005.	7.7	0
1331	Federated Learning forÂlndustry 5.0: A State-of-the-Art Review. Lecture Notes in Networks and Systems, 2023, , 60-66.	0.7	O
1332	Securing the Industrial Internet of Things against ransomware attacks: A comprehensive analysis of the emerging threat landscape and detection mechanisms. Journal of Network and Computer Applications, 2024, 223, 103809.	9.1	2
1334	Security Issues on Industrial Internet of Things: Overview and Challenges. Computers, 2023, 12, 256.	3.3	0
1335	Industrial Internet of Things Ecosystems Security and Digital Forensics: Achievements, Open Challenges, and Future Directions. ACM Computing Surveys, 2024, 56, 1-37.	23.0	0
1336	Towards intelligent and trustworthy task assignments for 5G-enabled industrial communication systems. Digital Communications and Networks, 2023, , .	5.0	O
1337	A comprehensive knowledge map for AI improving security management of cyber-physical system enabled smart manufacturing. Computers and Security, 2024, 137, 103650.	6.0	0
1338	Industrial IoT: Overview, Enabled Technologies, Recent Case Studies & Enabled Technologies & Enabled Technologies & Enabled Technologies & Enabled Technol		O
1339	Message sharing scheme based on edge computing in IoV. Mathematical Biosciences and Engineering, 2023, 20, 20809-20827.	1.9	0
1340	Blockchain-assisted verifiable certificate-based searchable encryption against untrusted cloud server for Industrial Internet of Things. Future Generation Computer Systems, 2024, 153, 97-112.	7.5	O
1341	TL-BILSTM IoT: transfer learning model for prediction of intrusion detection system in IoT environment. International Journal of Information Security, 0, , .	3.4	0
1342	Intrusion Two-Level Detection System Using Machine Learning Techniques for Industrial Internet of Things (IIoT)., 2023,,.		0
1343	Security analysis of cyber physical system using digital forensic incident response., 2024, 2, 100034.		0
1344	Blockchain-Based Lightweight Authentication Mechanisms for Industrial Internet of Things and Information Systems. International Journal on Semantic Web and Information Systems, 2023, 20, 1-30.	5.1	0
1345	Industry 4.0 and industrial workflow scheduling: A survey. Journal of Industrial Information Integration, 2024, 38, 100546.	6.4	0
1346	The impact of safety climate on human-technology interaction and sustainable development: Evidence from Indonesian oil and gas industry. Journal of Cleaner Production, 2024, 434, 140211.	9.3	0
1347	Concept Drift Challenges in the Internet of Things (IoT) Era of Smart Cities: A Preliminary Investigation., 2023,,.		0
1348	Design and Analysis of an Individual-Based Model for Malware Propagation on IoT Networks. Mathematics, 2024, 12, 58.	2.2	O

#	Article	IF	CITATIONS
1350	Design and Development of IoT based Smart System for Monitoring Laboratory Environment. Turkish Journal of Agricultural Engineering Research, 2023, 4, 263-277.	0.2	0
1351	Design Elements of a Platform-Based Ecosystem for Industry Applications. , 2024, , 491-512.		0
1352	A Catalog of Consumer IoT Device Characteristics for Data Quality Estimation. Journal of Data and Information Quality, $0$ , , .	2.1	0
1353	IIoT Low-Cost ZigBee-Based WSN Implementation for Enhanced Production Efficiency in a Solar Protection Curtains Manufacturing Workshop. Sensors, 2024, 24, 712.	3.8	0
1354	IoT-Based Framework for Digital Twins in the Industry 5.0 Era. Sensors, 2024, 24, 594.	3.8	0
1355	Security at the Edge for Resource-Limited IoT Devices. Sensors, 2024, 24, 590.	3.8	0
1356	Rational design and optimization of self-powered instantaneous dual-parameter triboelectric sensor. Sensors and Actuators A: Physical, 2024, 366, 115018.	4.1	0
1357	Bloom's IoT Taxonomy towards an effective Industry 4.0 education: Case study on Open-source IoT laboratory. Education and Information Technologies, 0, , .	5 <b>.</b> 7	0
1358	Proving Mutual Authentication Property of Industrial Internet of Things Multi-Factor Authentication Protocol Based on Logic of Events. Electronics (Switzerland), 2024, 13, 177.	3.1	0
1359	Tunable UWB Metasurface Absorber forÂSmart City Compatible IoT Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 231-240.	0.3	0
1361	Automated guided vehicle dispatching and routing integration via digital twin with deep reinforcement learning. Journal of Manufacturing Systems, 2024, 72, 492-503.	13.9	0
1362	OBiLSTM-Based Intrusion Detection Method for Industrial Internet of Things. , 2023, , .		0
1363	Using Large Language Models to Enhance the Reusability of Sensor Data. Sensors, 2024, 24, 347.	3.8	1
1364	A Lightweight Combined Physical Layer Encryption and Authentication Scheme for Industrial Internet of Things. IEEE Access, 2024, 12, 6961-6970.	4.2	0
1365	An IoT Based Farm Irrigation System by Periodical Maintenance of Soil Moisture Value., 2021,, 47-55.		0
1367	Ontologyâ€Based Battery Production Dataspace and Its Interweaving with Artificial Intelligenceâ€Empowered Data Analytics. Energy Technology, 2024, 12, .	3.8	0
1368	Communications Security in Industry X: A Survey. IEEE Open Journal of the Communications Society, 2024, 5, 982-1025.	6.9	0
1369	Computation Rate Maximization for Wireless-Powered Edge Computing With Multi-User Cooperation. IEEE Open Journal of the Communications Society, 2024, 5, 965-981.	6.9	0

#	Article	IF	CITATIONS
1370	Enhancing Information Freshness via Knowledge Graph-Aided Semantic Communication. , 2023, , .		O
1371	CLAST: Efficient Certificateless Sequential Aggregate Signature Scheme for Industrial Internet of Things Environments., 2023,,.		0
1372	Strategy of integrated humanity for specific applications. , 2024, , 125-167.		0
1373	Approaches for data collection and process standardization in smart manufacturing: Systematic literature review. Journal of Industrial Information Integration, 2024, 38, 100578.	6.4	0
1375	Improving Communication Efficiency: A Dual Adaptive Federated Learning Framework., 2023,,.		0
1376	Deploying IIoT Systems for Long-Term Planning in Underground Mining: A Focus on the Monitoring of Explosive Atmospheres. Applied Sciences (Switzerland), 2024, 14, 1116.	2.5	0
1377	Privacy-preserving dynamic auditing for regenerating code-based storage in cloud-fog-assisted IIoT. Internet of Things (Netherlands), 2024, 25, 101084.	7.7	0
1378	VAIDS: A Hybrid Deep Learning Model to Detect Intrusions in MQTT Protocol Enabled Networks. Communications in Computer and Information Science, 2024, , 209-222.	0.5	0
1379	Green and Sustainable Industrial Internet of Things Systems Leveraging Wake-Up Radio to Enable On-Demand IoT Communication. Sustainability, 2024, 16, 1160.	3.2	0
1380	Porous materials as effective chemiresistive gas sensors. Chemical Society Reviews, 2024, 53, 2530-2577.	38.1	0
1381	Al Lifecycle Zero-Touch Orchestration within the Edge-to-Cloud Continuum for Industry 5.0. Systems, 2024, 12, 48.	2.3	1
1382	Robust beamforming design for energy harvesting efficiency maximization in RIS-aided SWIPT system. Digital Communications and Networks, 2024, , .	5.0	0
1383	Experimental investigation of near-field magnetic energy harvesting from induction cooktop. Physica Scripta, 2024, 99, 035521.	2.5	0
1384	Resource Virtualization with End-to-End Timing Guarantees for Multi-Hop Multi-Channel Real-Time Wireless Networks., 2023,,.		0
1385	Finite State Automata on Multi-Word Units for Efficient Text-Mining. Mathematics, 2024, 12, 506.	2.2	0
1386	A systematic state-of-art review on digital identity challenges with solutions using conjugation of IOT and blockchain in healthcare. Internet of Things (Netherlands), 2024, 25, 101111.	7.7	0
1387	Lean 4.0: a systematic literature review on the interaction between lean production and industry 4.0 pillars. Journal of Manufacturing Technology Management, 0, , .	6.4	0
1388	Usage of Application-driven Ternary Divide-and-conquer Architecture of Heterogeneous Internet of Things in Environmental Monitoring. , 2023, , .		0

#	Article	IF	CITATIONS
1389	IoT Data Management and A Brief Analysis of IoT in the Health Industry. , 2023, , .		0
1390	Exploring IoT-Applications: A Survey of Recent Progress, Challenges, and Impact of AI, Blockchain, and Disruptive Technologies., 2023,,.		0
1391	Reliability of LoRaWAN Communications in Mining Environments: A Survey on Challenges and Design Requirements. Journal of Sensor and Actuator Networks, 2024, 13, 16.	3.9	0
1392	Fusing consensus knowledge: A federated learning method for fault diagnosis via privacy-preserving reference under domain shift. Information Fusion, 2024, 106, 102290.	19.1	0
1393	Client Scheduling for Unreliable Semi-Decentralized Federated Learning. , 2023, , .		0
1394	Industrial process fault diagnosis based on feature enhanced meta-learning toward domain generalization scenarios. Knowledge-Based Systems, 2024, 289, 111506.	7.1	0
1395	Short-Term Wireless Connectivity Prediction for Connected Agricultural Vehicles. , 2023, , .		0
1396	Manufacturing crisis and twin-oriented manufacturing. Journal of Manufacturing Systems, 2024, 73, 205-222.	13.9	0
1397	Applications of Big Data and Opportunities for the Construction Industry. , 2023, , .		0
1398	Novel image pixel scrambling technique for efficient color image encryption in resource-constrained IoT devices. Multimedia Tools and Applications, 0, , .	3.9	0
1399	The security of IOT from the perspective of the observability of complex networks. Heliyon, 2024, 10, e27104.	3.2	0
1400	COVID-19 Pandemic Personal Safety Is Revolutionized by the Smart Mask. Advances in Bioinformatics and Biomedical Engineering Book Series, 2024, , 78-99.	0.4	0
1401	Real-Time Event Detection and Predictive Analytics Using IoT and Deep Learning. Advances in Logistics, Operations, and Management Science Book Series, 2024, , 1-41.	0.4	0
1402	Wireless Mesh System Design for Photovoltaic Power Station Based on LoRa. , 2023, , .		0
1403	Smart system for water quality monitoring utilizing long-range-based Internet of Things. Applied Water Science, 2024, 14, .	5.6	0
1405	Energyâ€efficient reliabilityâ€aware offloading for delayâ€sensitive tasks in collaborative edge computing. Concurrency Computation Practice and Experience, 0, , .	2.2	0
1406	Low discrepancy on non-linear sensor deployment in a time-critical linear IIoT network. Internet of Things (Netherlands), 2024, 26, 101165.	7.7	0
1407	A messaging library for distributed modeling. Procedia Computer Science, 2024, 232, 606-615.	2.0	0

#	Article	IF	CITATIONS
1408	Cloud Usage for Manufacturing: Challenges and Opportunities. Procedia Computer Science, 2024, 232, 1412-1419.	2.0	0
1409	A Quantum-Safe Software-Defined Deterministic Internet of Things (IoT) with Hardware-Enforced Cyber-Security for Critical Infrastructures. Information (Switzerland), 2024, 15, 173.	2.9	0
1410	Empowerment of Geospatial Technologies in Conjunction with Information and Communication Technologies (ICT). Environmental Science and Engineering, 2024, , 567-583.	0.2	0
1411	COVID-19 Pandemic's Personal Safety Is Revolutionized by the Smart Mask. Advances in Medical Technologies and Clinical Practice Book Series, 2024, , 258-282.	0.3	O
1412	Task Offloading Strategy for Mobile Edge Computing in Industrial Internet of Things. , 2023, , .		0
1413	Review: recent advances and future technologies in poultry feed manufacturing. World's Poultry Science Journal, 0, , 1-13.	3.0	0
1414	Cellular network-based IIoT architecture for time-critical control tasks of building automation. Automation in Construction, 2024, 162, 105387.	9.8	0
1415	Augmented Reality in Industry 4.0 Assistance and Training Areas: A Systematic Literature Review and Bibliometric Analysis. Electronics (Switzerland), 2024, 13, 1147.	3.1	0
1417	Methodology for Implementing a Manufacturing Execution System in the Machinery and Equipment Industry. Procedia Computer Science, 2024, 232, 2028-2037.	2.0	0
1418	Edge Intelligence for Industrial IoT: Opportunities and Limitations. Procedia Computer Science, 2024, 232, 397-405.	2.0	0