Mikael h Gidlund

List of Publications by Year
in descending order

190 papers	5,144 citations	147801 31 h-index	114465 63 g-index
198 all docs	198 docs citations	198 times ranked	4444 citing authors

#	Article	IF	Citations
1	Industrial IoT in 5G-and-Beyond Networks: Vision, Architecture, and Design Trends. IEEE Transactions on Industrial Informatics, 2022, 18, 4122-4137.	11.3	77
2	Adding Redundancy to LoRaWAN for Emergency Communications at the Factory Floor. IEEE Transactions on Industrial Informatics, 2022, 18, 7332-7340.	11.3	6
3	Guest Editorial: Industrial IoT and Sensor Networks in 5G-and-Beyond Wireless Communication. IEEE Transactions on Industrial Informatics, 2022, 18, 4118-4121.	11.3	6
4	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
5	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
6	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
7	Factory 5G: A Review of Industry-Centric Features and Deployment Options. IEEE Industrial Electronics Magazine, 2022, 16, 24-34.	2.6	18
8	Quantum-Safe Group Key Establishment Protocol from Lattice Trapdoors. Sensors, 2022, 22, 4148.	3.8	2
9	Computation Offloading and Resource Allocation in MEC-Enabled Integrated Aerial-Terrestrial Vehicular Networks: A Reinforcement Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21478-21491.	8.0	36
10	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
11	LoRa Beyond ALOHA: An Investigation of Alternative Random Access Protocols. IEEE Transactions on Industrial Informatics, 2021, 17, 3544-3554.	11.3	78
12	REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. IEEE Internet of Things Journal, 2021, 8, 1871-1882.	8.7	8
13	Energy Efficiency of Slotted LoRaWAN Communication With Out-of-Band Synchronization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	28
14	Improving Power Stability of Energy Harvesting Devices With Edge Computing-Assisted Time Fair Energy Allocation. IEEE Transactions on Green Communications and Networking, 2021, 5, 540-551.	5.5	7
15	Autonomous Interference Mapping for Industrial Internet of Things Networks Over Unlicensed Bands: Identifying Cross-Technology Interference. IEEE Industrial Electronics Magazine, 2021, 15, 67-78.	2.6	16
16	Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. IEEE Internet of Things Journal, 2021, 8, 7912-7924.	8.7	8
17	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
18	How SIC-enabled LoRa Fares under Imperfect Orthogonality?. , 2021, , .		4

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19	Multiple Access-Enabled Relaying with Piece-Wise and Forward NOMA: Rate Optimization under Reliability Constraints. Sensors, 2021, 21, 4783.	3.8	2
20	DeepHealth: A Self-Attention Based Method for Instant Intelligent Predictive Maintenance in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 5461-5473.	11.3	36
21	Enhancing Backscatter Communication in IoT Networks with Power-Domain NOMA. Internet of Things, 2021, , 81-101.	1.7	3
22	Joint Power and Blocklength Allocation for Energy-Efficient Ultra- Reliable and Low- Latency Communications. , 2021, , .		6
23	A Preliminary Prototype Based on Biological Mimicry for Hardware Data Acquisition. , 2021, , .		0
24	OTP-Based Symmetric Group Key Establishment Scheme for IoT Networks. , 2021, , .		2
25	Edge Intelligence in Softwarized 6G: Deep Learning-enabled Network Traffic Predictions. , 2021, , .		14
26	Exploring Multi-Hop LoRa for Green Smart Cities. IEEE Network, 2020, 34, 225-231.	6.9	53
27	Machine Learning-Aided Classification Of LoS/NLoS Radio Links In Industrial IoT. , 2020, , .		5
28	Congestion Detection and Control for 6TiSCH Networks in IIoT Applications. , 2020, , .		3
29	Relay Node Selection in Bluetooth Mesh Networks. , 2020, , .		7
30	Impact of Indoor Multipath Channels on Timing Advance for URLLC in Industrial IoT. , 2020, , .		7
31	A Blind Signal Samples Detection Algorithm for Accurate Primary User Traffic Estimation. Sensors, 2020, 20, 4136.	3.8	3
32	Security and Privacy in the Industrial Internet of Things: Current Standards and Future Challenges. IEEE Access, 2020, 8, 152351-152366.	4.2	74
33	HyS-R: A Hybrid Subscription-Recovery Method for Downlink Connectivity in 6TiSCH Networks. , 2020, , .		0
34	A Machine-Learning-Based Technique for False Data Injection Attacks Detection in Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 8462-8471.	8.7	91
35	Understanding the Performance of Bluetooth Mesh: Reliability, Delay, and Scalability Analysis. IEEE Internet of Things Journal, 2020, 7, 2089-2101.	8.7	38
36	Onboard Spectral Analysis for Low-Complexity IoT Devices. IEEE Access, 2020, 8, 43027-43045.	4.2	4

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37	Congestion Control and Traffic Differentiation for Heterogeneous 6TiSCH Networks in IIoT. Sensors, 2020, 20, 3508.	3.8	4
38	Guest Editorial: Security, Privacy, and Trust for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 625-628.	11.3	10
39	On TOA-based Ranging over mmWave 5G for Indoor Industrial IoT Networks. , 2020, , .		5
40	RSSI Fingerprinting-Based Localization Using Machine Learning in LoRa Networks. IEEE Internet of Things Magazine, 2020, 3, 53-59.	2.6	36
41	Noise Power Estimators in ISM Radio Environments: Performance Comparison and Enhancement Using a Novel Samples Separation Technique. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 105-115.	4.7	8
42	Key Distribution Protocol for Industrial Internet of Things Without Implicit Certificates. IEEE Internet of Things Journal, 2019, 6, 906-917.	8.7	26
43	A Central Intrusion Detection System for RPL-Based Industrial Internet of Things. , 2019, , .		26
44	Lightweight IoT Group Key Establishment Scheme From the One Time Pad. , 2019, , .		7
45	AESGRU: An Attention-Based Temporal Correlation Approach for End-to-End Machine Health Perception. IEEE Access, 2019, 7, 141487-141497.	4.2	5
46	Efficient Resource Scheduling for Multipath Retransmission over Industrial WSAN Systems. Sensors, 2019, 19, 3927.	3.8	2
47	NOMA Enhanced Backscatter Communication for Green IoT Networks. , 2019, , .		28
48	DeP-D: A Decentralized Primal-Dual Optimization Algorithm for Industrial Wireless Sensor Networks. , 2019, , .		3
49	Analysis of RSSI Fingerprinting in LoRa Networks. , 2019, , .		26
50	Dynamic User Authentication Protocol for Industrial IoT without Timestamping. , 2019, , .		5
51	On the Association of Small Cell Base Stations with UAVs Using Unsupervised Learning. , 2019, , .		16
52	Preserving Location Privacy in Cyber-Physical Systems. , 2019, , .		5
53	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
54	CarNet: A Dual Correlation Method for Health Perception of Rotating Machinery. IEEE Sensors Journal, 2019, 19, 7095-7106.	4.7	11

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55	Control-Data Separation Architecture for Dual-Band mmWave Networks: A New Dimension to Spectrum Management. IEEE Access, 2019, 7, 34925-34937.	4.2	5
56	Scalability Analysis of a LoRa Network Under Imperfect Orthogonality. IEEE Transactions on Industrial Informatics, 2019, 15, 1425-1436.	11.3	153
57	RMA-RP: A Reliable Mobility-Aware Routing Protocol for Industrial IoT Networks. , 2019, , .		6
58	Fog Computing Enabling Industrial Internet of Things: State-of-the-Art and Research Challenges. Sensors, 2019, 19, 4807.	3.8	83
59	Time Synchronization in 5G Wireless Edge: Requirements and Solutions for Critical-MTC. IEEE Communications Magazine, 2019, 57, 45-51.	6.1	68
60	Priority-Aware Wireless Fieldbus Protocol for Mixed-Criticality Industrial Wireless Sensor Networks. IEEE Sensors Journal, 2019, 19, 2767-2780.	4.7	29
61	Real-Time Interference Identification via Supervised Learning: Embedding Coexistence Awareness in IoT Devices. IEEE Access, 2019, 7, 835-850.	4.2	41
62	Formal security analysis of LoRaWAN. Computer Networks, 2019, 148, 328-339.	5.1	78
63	Security Risk Analysis of LoRaWAN and Future Directions. Future Internet, 2019, 11, 3.	3.8	83
64	Location Privacy Assured Internet of Things. , 2019, , .		3
65	Energy Efficient Consecutive Packet Transmissions in Receiver-Initiated Wake-Up Radio Enabled WSNs. IEEE Sensors Journal, 2018, 18, 4733-4745.	4.7	29
66	A Delay-Bounded MAC Protocol for Mission- and Time-Critical Applications in Industrial Wireless Sensor Networks. IEEE Sensors Journal, 2018, 18, 2607-2616.	4.7	42
67	Safe-WirelessHART: A Novel Framework Enabling Safety-Critical Applications Over Industrial WSNs. IEEE Transactions on Industrial Informatics, 2018, 14, 3513-3523.	11.3	19
68	Multiple Packet Transmissions in Duty Cycling WSNs: A DTMC-Based Throughput Analysis. IEEE Wireless Communications Letters, 2018, 7, 480-483.	5.0	3
69	Interference Modelling in a Multi-Cell LoRa System. , 2018, , .		23
70	Modelling and Analysis of Wi-Fi and LAA Coexistence with Priority Classes. , 2018, , .		10
71	Wireless Mediation for Multi-Hop Networks in Time Critical Industrial Applications. , 2018, , .		2
72	Survey of Proximity Based Authentication Mechanisms for the Industrial Internet of Things. , 2018, , .		10

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73	Wireless Mediation of Multiple Equi-Priority Events in Time-Critical Industrial Applications. , 2018, , .		4
74	Modeling of Enhanced Distributed Channel Access with Station Grouping: A Throughput Analysis. , 2018, , .		0
75	Lightweight IoT Group Key Establishment Scheme Using One-way Accumulator. , 2018, , .		7
76	Lightweight Group-Key Establishment Protocol for IoT Devices: Implementation and Performance Analyses. , 2018, , .		9
77	Over-the-Air Time Synchronization for URLLC: Requirements, Challenges and Possible Enablers. , 2018, , .		37
78	An Efficient Retransmission Scheme for Reliable End-to-End Wireless Communication Over WSANs. IEEE Access, 2018, 6, 49838-49849.	4.2	9
79	Industrial Internet of Things: Challenges, Opportunities, and Directions. IEEE Transactions on Industrial Informatics, 2018, 14, 4724-4734.	11.3	1,418
80	Analysis of LoRaWAN v1.1 security. , 2018, , .		48
81	Priority-Oriented Packet Transmissions in Internet of Things: Modeling and Delay Analysis. , 2018, , .		3
82	Guest Editorial From Industrial Wireless Sensor Networks to Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 2194-2198.	11.3	14
83	PR-CCA MAC: A Prioritized Random CCA MAC Protocol for Mission-Critical IoT Applications. , 2018, , .		5
84	Challenges of Securing the Industrial Internet of Things Value Chain. , 2018, , .		23
85	Cross-layer optimization of wireless links under reliability and energy constraints. , 2018, , .		6
86	An On-Demand Energy Requesting Scheme for Wireless Energy Harvesting Powered IoT Networks. IEEE Internet of Things Journal, 2018, 5, 2868-2879.	8.7	28
87	Hybrid MAC mechanism for energy efficient communication in IEEE 802.11ah. , 2017, , .		7
88	Will 5G become yet another wireless technology for industrial automation?. , 2017, , .		28
89	Evaluating Bluetooth Low Energy Suitability for Time-Critical Industrial IoT Applications. International Journal of Wireless Information Networks, 2017, 24, 278-290.	2.7	58
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92	Performance Evaluations and Measurements of the REALFLOW Routing Protocol in Wireless Industrial Networks. IEEE Transactions on Industrial Informatics, 2017, 13, 1410-1420.	11.3	26
93	Challenges when bringing IoT into industrial automation. , 2017, , .		28
94	Energy Harvesting Powered Packet Transmissions in Duty-Cycled WSNs: A DTMC Analysis. , 2017, , .		4
95	A Reliable Handoff Mechanism for Mobile Industrial Wireless Sensor Networks. Sensors, 2017, 17, 1797.	3.8	14
96	An SVM-Based Method for Classification of External Interference in Industrial Wireless Sensor and Actuator Networks. Journal of Sensor and Actuator Networks, 2017, 6, 9.	3.9	27
97	Renewal-theoretic packet collision modeling under long-tailed heterogeneous traffic. , 2017, , .		2
98	Detecting communication blackout in industrial Wireless Sensor Networks. , 2016, , .		3
99	QoS-Aware Cross-Layer Configuration for Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2016, 12, 1679-1691.	11.3	32
100	An analytical model of the effective delay performance for Bluetooth low energy. , 2016, , .		9
101	Balancing network performance and network security in a smart grid application. , 2016, , .		0
102	Handling event-triggered traffic of safety and closed-loop control systems in WSANs. , 2016, , .		0
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107	WirArb: A New MAC Protocol for Time Critical Industrial Wireless Sensor Network Applications. IEEE Sensors Journal, 2016, 16, 2127-2139.	4.7	58
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110	Ubiquitous, Yet Deceptive: Hardware-Based Channel Metrics on Interfered WSN Links. IEEE Transactions on Vehicular Technology, 2015, 64, 1766-1778.	6.3	21
111	Traffic condition monitoring using weighted kernel density for intelligent transportation. , 2015, , .		7
112	Applicability of LTE Public Key Infrastructure Based Device Authentication in Industrial Plants. , 2015, , .		0
113	Assignment of Segmented Slots Enabling Reliable Real-Time Transmission in Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	7.9	61
114	CLAP: Chip-Level Augmentation of IEEE 802.15.4 PHY for Error-Intolerant WSN Communication. , 2015, , .		6
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127	PriorityMAC: A Priority-Enhanced MAC Protocol for Critical Traffic in Industrial Wireless Sensor and Actuator Networks. IEEE Transactions on Industrial Informatics, 2014, 10, 824-835.	11.3	136
128	Demonstration abstract: Applying industrial wireless sensor networks to welder machine system. , 2014, , .		3
129	Characterization of long term channel variations in industrial wireless sensor networks. , 2014, , .		10
130	Medium access protocol design for time-critical applications in wireless sensor networks. , 2014, , .		0
131	Long Term Channel Characterization for Energy Efficient Transmission in Industrial Environments. IEEE Transactions on Communications, 2014, 62, 3004-3014.	7.8	55
132	An RTOS-based architecture for industrial wireless sensor network stacks with multi-processor support. , 2013, , .		7
133	SAS-TDMA: a source aware scheduling algorithm for real-time communication in industrial wireless sensor networks. Wireless Networks, 2013, 19, 1155-1170.	3.0	38
134	A trust management scheme for industrial wireless sensor networks. , 2013, , .		10
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136	QoS assessment for mission-critical Wireless Sensor Network applications. , 2013, , .		3
137	Channel coding and interleaving in Industrial WSN: abiding to timing constraints and bit error nature. , 2013, , .		5
138	CCA-Embedded TDMA enabling acyclic traffic in industrial wireless sensor networks. Ad Hoc Networks, 2013, 11, 1105-1121.	5.5	14
139	Deterministic medium access mechanism for time-critical wireless sensor network applications. , 2013, , .		1
140	Reusability assessment of financial card readers' security mechanisms in process control devices. , 2013, , .		0
141	Low jitter scheduling for Industrial Wireless Sensor and Actuator Networks. , 2013, , .		9
142	Reliable flooding-based downlink transmissions for Industrial Wireless Sensor and Actuator Networks. , 2013, , .		6
143	Reliable real-time routing protocol for industrial wireless sensor and actuator networks. , 2013, , .		2
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145	A solution for industrial device commissioning along with the initial trust establishment. , 2013, , .		4
146	Deterministic and event triggered MAC protocol for industrial wireless networks. , 2013, , .		6
147	Distributed data gathering scheduling protocol for wireless sensor actor and actuator networks. , 2012, , .		1
148	Towards reliable and lightweight communication in industrial wireless sensor networks. , 2012, , .		4
149	A flexible error correction scheme for IEEE 802.15.4-based industrial Wireless Sensor Networks. , 2012, , .		13
150	Adaptive forward error correction for best effort Wireless Sensor Networks. , 2012, , .		13
151	Reliable RSS-based routing protocol for Industrial Wireless Sensor Networks. , 2012, , .		11
152	Issues of routing protocol for Wireless Industrial Sensor Networks. , 2012, , .		2
153	Comparison between Single Mesh Network and Cell Based Mesh Network. , 2012, , .		0
154	Safe and secure wireless networked control systems. , 2012, , .		3
155	Measurements on an industrial wireless HART network supporting PROFIsafe: A case study. , 2011, , .		15
156	Prolonging wireless HART network lifetime using packet aggregation. , 2011, , .		19
157	On Hybrid ARQ adaptive Forward Error Correction in wireless sensor networks. , 2011, , .		7
158	Future research challenges in wireless sensor and actuator networks targeting industrial automation. , 2011, , .		183
159	A lightweight routing protocol for Industrial Wireless Sensor and Actuator Networks. , 2011, , .		4
160	Wireless Coexistence between IEEE 802.11- and IEEE 802.15.4-Based Networks: A Survey. International Journal of Distributed Sensor Networks, 2011, 7, 912152.	2.2	80
161	Reliable and Low Latency Transmission in Industrial Wireless Sensor Networks. Procedia Computer Science, 2011, 5, 866-873.	2.0	28
162	Efficient integration of secure and safety critical industrial wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	47

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164	Performance analysis on a new MAC DT-CSMA. , 2011, , .		0
165	Impact of Doppler spread and adaptive modulation on TCP throughput in Rayleigh fading channels. AEU - International Journal of Electronics and Communications, 2010, 64, 1082-1089.	2.9	0
166	Coexistence of IEEE802.15.4 based networks: A survey. , 2010, , .		30
167	Integration of WirelessHART networks in Distributed Control Systems using PROFINET IO. , 2010, , .		13
168	Wireless sensor network based e-health system - implementation and experimental results. IEEE Transactions on Consumer Electronics, 2010, 56, 2288-2295.	3.6	135
169	Deterministic downlink transmission in WirelessHART networks enabling wireless control applications. , 2010, , .		14
170	Framework for opportunistic routing in wireless sensor networks with application to multiple antennas in fading environments. , 2010, , .		0
171	Design and implementation of a WirelessHART simulator for process control. , 2010, , .		6
172	Performance of UWB communication based on dynamic bandwidth direct sequence. , 2010, , .		0
173	Scheduling Performance of Heavy-Tailed Data Traffic in Wireless High-Speed Shared Channels. , 2009, , .		2
174	Experimental e-Health Applications in Wireless Sensor Networks. , 2009, , .		23
175	Design of uplink schedulers for broadband wireless access networks. , 2009, , .		1
176	Performance of cooperative relaying with ARQ in wireless sensor networks. , 2009, , .		1
177	Uplink Scheduling Algorithms for QoS Support in Broadband Wireless Access Networks. Journal of Communications, 2009, 4, .	1.6	18
178	VoIP and IPTV distribution over wireless mesh networks in indoor environment. IEEE Transactions on Consumer Electronics, 2008, 54, 1665-1671.	3.6	15
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181	Scheduling Algorithms for 3GPP Long-Term Evolution Systems: From a Quality of Service Perspective. , 2008, , .		16
182	Performance of opportunistic scheduling schemes for MIMO-OFDM wireless LANs. , 2008, , .		0
183	An Experimental Study on Home-Wireless Passive Positioning. , 2008, , .		9
184	Performance of Soft Decision Metrics and Diversity Combining with Imperfect Channel Estimation. , 2008, , .		0
185	Combined Packet Retransmission Diversity and Power Adjustment Scheme for High Speed Wireless Networks. Journal of Communications, 2008, 3, .	1.6	7
186	Performance of Triple Play Services in Wireless Meshed Networks. , 2007, , .		5
187	On WiMAX Performance with Multiple Antenna Transmission. , 2007, , .		1
188	Performance of Combined Constellation Rearrangement and Space-Time Block Coding Scheme for Multi-Level Modulation. , 2007, , .		4
189	Symbol Mapping Diversity and Power Adjustment for High Speed Downlink Packet Access (HSDPA). , 2007, , .		0
190	Performance of Combined Constellation Rearrangement and Space-Time Block Coding Scheme for Multi-Level Modulation. , 2007, , .		4