

Ingrid Moerman

List of Publications by Year in descending order

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276
papers

7,609
citations

145106

33
h-index

81351

76
g-index

289
all docs

289
docs citations

289
times ranked

7403
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardware Efficient Clock Synchronization Across Wi-Fi and Ethernet-Based Network Using PTP. IEEE Transactions on Industrial Informatics, 2022, 18, 3808-3819.	7.2	12
2	Experimental V2X Evaluation for C-V2X and ITS-G5 Technologies in a Real-Life Highway Environment. IEEE Transactions on Network and Service Management, 2022, 19, 1521-1538.	3.2	36
3	Bluetooth-Low-Energy-Based Fall Detection and Warning System for Elderly People in Nursing Homes. Journal of Sensors, 2022, 2022, 1-14.	0.6	8
4	Impactless Beacon-Based Wireless TSN Association Procedure. , 2022, , .		2
5	Energy-Efficient Resource Allocation for Ultra-Dense Licensed and Unlicensed Dual-Access Small Cell Networks. IEEE Transactions on Mobile Computing, 2021, 20, 983-1000.	3.9	20
6	Machine Learning Enabled Wi-Fi Saturation Sensing for Fair Coexistence in Unlicensed Spectrum. IEEE Access, 2021, 9, 42959-42974.	2.6	14
7	A Dynamic Distributed Multi-Channel TDMA Slot Management Protocol for Ad Hoc Networks. IEEE Access, 2021, 9, 61864-61886.	2.6	7
8	In-Band Network Monitoring Technique to Support SDN-Based Wireless Networks. IEEE Transactions on Network and Service Management, 2021, 18, 627-641.	3.2	17
9	Enabling TSN over IEEE 802.11: Low-overhead Time Synchronization for Wi-Fi Clients. , 2021, , .		9
10	Bringing Time-Sensitive Networking to Wireless Professional Private Networks. Wireless Personal Communications, 2021, 121, 1255-1271.	1.8	9
11	A Survey on Machine Learning-Based Performance Improvement of Wireless Networks: PHY, MAC and Network Layer. Electronics (Switzerland), 2021, 10, 318.	1.8	39
12	Coexistence Scheme for Uncoordinated LTE and WiFi Networks Using Experience Replay Based Q-Learning. Sensors, 2021, 21, 6977.	2.1	12
13	Adaptive Transport Layer Protocols using In-band Network Telemetry and eBPF. , 2021, , .		2
14	Age-of-Information Aware In-band Network Telemetry for Better Network Predictability. , 2021, , .		0
15	The CODYSUN Approach: A Novel Distributed Paradigm for Dynamic Spectrum Sharing in Satellite Communications. Sensors, 2021, 21, 8052.	2.1	0
16	Collaborative Flow Control in the DARPA Spectrum Collaboration Challenge. IEEE Transactions on Network and Service Management, 2020, 17, 2024-2038.	3.2	1
17	Adaptive CNN-based Private LTE Solution for Fair Coexistence with Wi-Fi in Unlicensed Spectrum. , 2020, , .		4
18	Instantaneous Signal Collision Detection Using In-Band Full-Duplex: Machine Learning VS Domain-specific Knowledge. , 2020, , .		2

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19	An AI-Based Incumbent Protection System for Collaborative Intelligent Radio Networks. IEEE Wireless Communications, 2020, 27, 16-23.	6.6	9
20	Large-Scale Antenna Systems and Massive Machine Type Communications. International Journal of Wireless Information Networks, 2020, 27, 317-339.	1.8	1
21	Over-the-Air Software Updates in the Internet of Things: An Overview of Key Principles. IEEE Communications Magazine, 2020, 58, 35-41.	4.9	33
22	A Baseband Wireless Spectrum Hypervisor for Multiplexing Concurrent OFDM Signals. Sensors, 2020, 20, 1101.	2.1	5
23	Enabling Virtual Radio Functions on Software Defined Radio for Future Wireless Networks. Wireless Personal Communications, 2020, 113, 1579-1595.	1.8	5
24	CMCVT: A Concurrent Multi-Channel Virtual Transceiver. AEU - International Journal of Electronics and Communications, 2020, 120, 153230.	1.7	1
25	Multi-band sub-GHz technology recognition on NVIDIA's Jetson Nano. , 2020, , .		3
26	Augmented Wi-Fi: An AI-based Wi-Fi Management Framework for Wi-Fi/LTE Coexistence. , 2020, , .		3
27	Evaluating the Suitability of IEEE 802.11ah for Low-Latency Time-Critical Control Loops. IEEE Internet of Things Journal, 2019, 6, 7839-7848.	5.5	16
28	Deep Learning-Based Spectrum Prediction Collision Avoidance for Hybrid Wireless Environments. IEEE Access, 2019, 7, 45818-45830.	2.6	28
29	A Convolutional Neural Network Approach for Classification of LPWAN Technologies: Sigfox, LoRA and IEEE 802.15.4g. , 2019, , .		16
30	On the Application of Massive MIMO Systems to Machine Type Communications. IEEE Access, 2019, 7, 2589-2611.	2.6	14
31	Towards low-complexity wireless technology classification across multiple environments. Ad Hoc Networks, 2019, 91, 101881.	3.4	26
32	Enabling Generic Wireless Coexistence Through Technology-Agnostic Dynamic Spectrum Access. Wireless Personal Communications, 2019, 106, 151-177.	1.8	1
33	Enhancing the Coexistence of LTE and Wi-Fi in Unlicensed Spectrum Through Convolutional Neural Networks. IEEE Access, 2019, 7, 28464-28477.	2.6	39
34	Recent Advances in 5G Technologies: New Radio Access and Networking. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	0.8	8
35	Using Deep Learning and Radio Virtualisation for Efficient Spectrum Sharing Among Coexisting Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 165-174.	0.2	1
36	A semi-supervised learning approach towards automatic wireless technology recognition. , 2019, , .		14

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37	Demo Abstract: Identification of LPWAN Technologies using Convolutional Neural Networks. , 2019, , .		2
38	Low Overhead, Fine-grained End-to-end Monitoring of Wireless Networks using In-band Telemetry. , 2019, , .		8
39	Scatter Phy: A Physical Layer for the DARPA Spectrum Collaboration Challenge. , 2019, , .		4
40	SCATTER PHY: An Open Source Physical Layer for the DARPA Spectrum Collaboration Challenge. Electronics (Switzerland), 2019, 8, 1343.	1.8	5
41	Comparing f-OFDM and OFDM Performance for MIMO Systems Considering a 5G Scenario. , 2019, , .		18
42	Dynamic and Collaborative Spectrum Sharing: The SCATTER Approach. , 2019, , .		11
43	Low Overhead Scheduling of LoRa Transmissions for Improved Scalability. IEEE Internet of Things Journal, 2019, 6, 3097-3109.	5.5	102
44	Seamless roaming and guaranteed communication using a synchronized single-hop multi-gateway 802.15.4e TSCH network. Ad Hoc Networks, 2019, 86, 1-14.	3.4	10
45	Cellular access multi-tenancy through small-cell virtualization and common RF front-end sharing. Computer Communications, 2019, 133, 59-66.	3.1	15
46	Portability, compatibility and reuse of MAC protocols across different IoT radio platforms. Ad Hoc Networks, 2019, 86, 144-153.	3.4	6
47	Smart container monitoring using custom-made WSN technology: from business case to prototype. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	4
48	An adaptive LTE listen-before-talk scheme towards a fair coexistence with Wi-Fi in unlicensed spectrum. Telecommunication Systems, 2018, 68, 701-721.	1.6	22
49	End-to-End Learning From Spectrum Data: A Deep Learning Approach for Wireless Signal Identification in Spectrum Monitoring Applications. IEEE Access, 2018, 6, 18484-18501.	2.6	236
50	Intelligent TDMA heuristic scheduling by taking into account physical layer interference for an industrial IoT environment. Telecommunication Systems, 2018, 67, 605-617.	1.6	3
51	A Framework for Intelligent Spectrum Sharing. , 2018, , .		0
52	MAC Protocol for Supporting Multiple Roaming Users in Mult-Cell UWB Localization Networks. , 2018, , .		7
53	WiSH-WalT: A Framework for Controllable and Reproducible LoRa Testbeds. , 2018, , .		4
54	A Spectrum Sharing Framework for Intelligent Next Generation Wireless Networks. IEEE Access, 2018, 6, 60704-60735.	2.6	14

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55	A Survey of LoRaWAN for IoT: From Technology to Application. <i>Sensors</i> , 2018, 18, 3995.	2.1	351
56	An Approach to Achieve Zero Turnaround Time in TDD Operation on SDR Front-End. <i>IEEE Access</i> , 2018, 6, 75461-75470.	2.6	5
57	Modelling the energy consumption for over-the-air software updates in LPWAN networks: SigFox, LoRa and IEEE 802.15.4g. <i>Internet of Things (Netherlands)</i> , 2018, 3-4, 104-119.	4.9	34
58	A Q-Learning Scheme for Fair Coexistence Between LTE and Wi-Fi in Unlicensed Spectrum. <i>IEEE Access</i> , 2018, 6, 27278-27293.	2.6	51
59	Time-critical communication in 6TiSCH networks. , 2018, , .		7
60	Hybrid Schedule Management in 6TiSCH Networks: The Coexistence of Determinism and Flexibility. <i>IEEE Access</i> , 2018, 6, 33941-33952.	2.6	19
61	Flexible Wi-Fi Communication among Mobile Robots in Indoor Industrial Environments. <i>Mobile Information Systems</i> , 2018, 2018, 1-19.	0.4	9
62	Interactive web visualizer for IEEE 802.11ah ns-3 module. , 2018, , .		6
63	Analysis of large-scale experimental data from wireless networks. , 2018, , .		6
64	Performance Evaluation of IEEE 802.11ah Networks With High-Throughput Bidirectional Traffic. <i>Sensors</i> , 2018, 18, 325.	2.1	54
65	Light-Weight Integration and Interoperation of Localization Systems in IoT. <i>Sensors</i> , 2018, 18, 2142.	2.1	3
66	Channel estimation for massive MIMO TDD systems assuming pilot contamination and flat fading. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2018, 2018, .	1.5	11
67	Radio Hardware Virtualization for Software-Defined Wireless Networks. <i>Wireless Personal Communications</i> , 2018, 100, 113-126.	1.8	9
68	A Framework for the Automation of LTE Physical Layer Tests. <i>Wireless Personal Communications</i> , 2018, 102, 293-307.	1.8	1
69	A Survey on Hybrid Beamforming Techniques in 5G: Architecture and System Model Perspectives. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 3060-3097.	24.8	456
70	Radio Hardware Virtualization for Coping with Dynamic Heterogeneous Wireless Environments. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018, , 287-297.	0.2	10
71	Surrogate modeling based cognitive decision engine for optimization of WLAN performance. <i>Wireless Networks</i> , 2017, 23, 2347-2359.	2.0	5
72	Optimizing Time-of-Arrival Localization Solutions for Challenging Industrial Environments. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1430-1439.	7.2	37

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73	Assessing the Coexistence of Heterogeneous Wireless Technologies With an SDR-Based Signal Emulator: A Case Study of Wi-Fi and Bluetooth. IEEE Transactions on Wireless Communications, 2017, 16, 1755-1766.	6.1	13
74	Self-Organized Energy-Efficient Cross-Layer Optimization for Device to Device Communication in Heterogeneous Cellular Networks. IEEE Access, 2017, 5, 1117-1128.	2.6	22
75	Benchmarking of Localization Solutions: Guidelines for the Selection of Evaluation Points. Ad Hoc Networks, 2017, 59, 86-96.	3.4	8
76	Sub-GHz LPWAN Network Coexistence, Management and Virtualization: An Overview and Open Research Challenges. Wireless Personal Communications, 2017, 95, 187-213.	1.8	46
77	Experimental Optimization of Exposure Index and Quality of Service in Wlan Networks. Radiation Protection Dosimetry, 2017, 175, 394-405.	0.4	2
78	WiSHFUL: Enabling Coordination Solutions for Managing Heterogeneous Wireless Networks. , 2017, 55, 118-125.		12
79	Wireless industrial communication for connected shuttle systems in warehouses. , 2017, , .		8
80	Channel Estimation for Massive MIMO TDD Systems Assuming Pilot Contamination and Frequency Selective Fading. IEEE Access, 2017, 5, 17733-17741.	2.6	40
81	Scalability Analysis of Large-Scale LoRaWAN Networks in ns-3. IEEE Internet of Things Journal, 2017, 4, 2186-2198.	5.5	243
82	Evaluation of accurate indoor localization systems in industrial environments. , 2017, , .		21
83	LoRa indoor coverage and performance in an industrial environment: Case study. , 2017, , .		83
84	Cellular Access Multi-Tenancy through Small Cell Virtualization and Common RF Front-End Sharing. , 2017, , .		5
85	Coexistence between IEEE802.15.4 and IEEE802.11 through cross-technology signaling. , 2017, , .		2
86	Implementation of PHY rate and A-MPDU length adaptation algorithm on WiSHFUL framework. , 2017, , .		2
87	Framework for automated tests of LTE physical layers. , 2017, , .		0
88	Packetized-LTE Physical Layer Framework for Coexistence Experiments. , 2017, , .		0
89	Demo abstract: Cross-technology TDMA synchronization using energy pattern beacons. , 2017, , .		2
90	Secure Service Proxy: A CoAP(s) Intermediary for a Securer and Smarter Web of Things. Sensors, 2017, 17, 1609.	2.1	8

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91	Cooperation Techniques between LTE in Unlicensed Spectrum and Wi-Fi towards Fair Spectral Efficiency. <i>Sensors</i> , 2017, 17, 1994.	2.1	17
92	Wireless Technology Recognition Based on RSSI Distribution at Sub-Nyquist Sampling Rate for Constrained Devices. <i>Sensors</i> , 2017, 17, 2081.	2.1	26
93	LoRa Scalability: A Simulation Model Based on Interference Measurements. <i>Sensors</i> , 2017, 17, 1193.	2.1	210
94	An Intuitive Drag and Drop Framework for Wireless Network Experimentation. , 2017, , .		1
95	Bindings and RESTlets: A Novel Set of CoAP-Based Application Enablers to Build IoT Applications. <i>Sensors</i> , 2016, 16, 1217.	2.1	6
96	Data-Driven Design of Intelligent Wireless Networks: An Overview and Tutorial. <i>Sensors</i> , 2016, 16, 790.	2.1	45
97	Experimental Evaluation of Unicast and Multicast CoAP Group Communication. <i>Sensors</i> , 2016, 16, 1137.	2.1	28
98	Troubleshooting Wireless Home Networks Using a Portable Testbed. , 2016, , .		0
99	Impact of LTE Operating in Unlicensed Spectrum on Wi-Fi Using Real Equipment. , 2016, , .		16
100	EC-IoT: An easy configuration framework for constrained IoT devices. , 2016, , .		7
101	Improving user interactions with constrained devices in the web of things. , 2016, , .		3
102	Wireless handover performance in industrial environments: A case study. , 2016, , .		4
103	Wi-Fi helping out Bluetooth smart for an improved home automation user experience. , 2016, , .		5
104	Dynamic Reconfiguration of Network Protocols for Constrained Internet-of-Things Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 269-281.	0.2	6
105	Performance analysis of multiple Indoor Positioning Systems in a healthcare environment. <i>International Journal of Health Geographics</i> , 2016, 15, 7.	1.2	77
106	Efficient Identification of a Multi-Objective Pareto Front on a Wireless Experimentation Facility. <i>IEEE Transactions on Wireless Communications</i> , 2016, 15, 6662-6675.	6.1	9
107	Cross-technology wireless experimentation: Improving 802.11 and 802.15.4e coexistence. , 2016, , .		3
108	SON for LTE-WLAN access network selection: design and performance. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016, 2016, .	1.5	3

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109	TAISC: A cross-platform MAC protocol compiler and execution engine. <i>Computer Networks</i> , 2016, 107, 315-326.	3.2	22
110	Demonstration Abstract: Platform for Benchmarking RF-Based Indoor Localization Solutions. , 2016, , .		1
111	Building accurate radio environment maps from multi-fidelity spectrum sensing data. <i>Wireless Networks</i> , 2016, 22, 2551-2562.	2.0	8
112	Data Driven Wireless Network Design: A Multi-level Modeling Approach. <i>Wireless Personal Communications</i> , 2016, 88, 63-77.	1.8	2
113	Observing CoAP groups efficiently. <i>Ad Hoc Networks</i> , 2016, 37, 368-388.	3.4	17
114	GITAR: Generic extension for Internet-of-Things ARchitectures enabling dynamic updates of network and application modules. <i>Ad Hoc Networks</i> , 2016, 36, 127-151.	3.4	34
115	To Mesh or not to Mesh: Flexible Wireless Indoor Communication Among Mobile Robots in Industrial Environments. <i>Lecture Notes in Computer Science</i> , 2016, , 325-338.	1.0	8
116	Comparability of RF-based indoor localisation solutions in heterogeneous environments: an experimental study. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2016, 23, 92.	0.3	18
117	RPL Mobility Support for Point-to-Point Traffic Flows towards Mobile Nodes. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 470349.	1.3	21
118	New method to design multiplier-less pulse shaping filters with minimal number of operations. , 2015, , .		0
119	Secure communication in IP-based wireless sensor networks via a trusted gateway. , 2015, , .		9
120	Throughput optimization strategies for large-scale wireless LANs. , 2015, , .		0
121	Efficient global optimization of multi-parameter network problems on wireless testbeds. <i>Ad Hoc Networks</i> , 2015, 29, 15-31.	3.4	11
122	Pseudo-3D RSSI-based WSN localization algorithm using linear regression. <i>Wireless Communications and Mobile Computing</i> , 2015, 15, 1342-1354.	0.8	9
123	Throughput optimization of wireless LANs by surrogate model based cognitive decision making. , 2015, , .		0
124	Heterogeneous spectrum sensing: challenges and methodologies. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015, 2015, .	1.5	5
125	Sensor Function Virtualization to Support Distributed Intelligence in the Internet of Things. <i>Wireless Personal Communications</i> , 2015, 81, 1415-1436.	1.8	28
126	Platform for benchmarking of RF-based indoor localization solutions. , 2015, 53, 126-133.		51

#	ARTICLE	IF	CITATIONS
127	Representation of spectrum sensing experimentation functionality for federated management and control. , 2015, , .		1
128	Radio-over-fibre for ultra-small 5G cells. , 2015, , .		22
129	Analysis and Experimental Verification of Frequency-Based Interference Avoidance Mechanisms in IEEE 802.15.4. IEEE/ACM Transactions on Networking, 2015, 23, 369-382.	2.6	27
130	Experimental validation of a reinforcement learning based approach for a service-wise optimisation of heterogeneous wireless sensor networks. Wireless Networks, 2015, 21, 931-948.	2.0	10
131	Integration of Heterogeneous Devices and Communication Models via the Cloud in the Constrained Internet of Things. International Journal of Distributed Sensor Networks, 2015, 2015, 1-16.	1.3	20
132	Exploiting programmable architectures for WiFi/ZigBee inter-technology cooperation. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	20
133	A modified broadcast strategy for distributed signal estimation in a wireless sensor network with a tree topology. , 2014, , .		0
134	Flexible Unicast-Based Group Communication for CoAP-Enabled Devices. Sensors, 2014, 14, 9833-9877.	2.1	22
135	Online assessment of sensing performance in experimental spectrum sensing platforms. , 2014, , .		2
136	Broadcast Aggregation to Improve Quality of Service in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 383678.	1.3	4
137	Flexible, Direct Interactions between CoAP-enabled IoT Devices. , 2014, , .		2
138	SDDV: scalable data dissemination in vehicular ad hoc networks. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	2
139	A cognitive QoS management framework for WLANs. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	3
140	Support of multiple sinks via a virtual root for the RPL routing protocol. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	16
141	WiMAX-based monitoring network for a utility company: a case study. Transactions on Emerging Telecommunications Technologies, 2014, 25, 343-353.	2.6	2
142	snapMac: A generic MAC/PHY architecture enabling flexible MAC design. Ad Hoc Networks, 2014, 17, 37-59.	3.4	11
143	Greedy distributed node selection for node-specific signal estimation in wireless sensor networks. Signal Processing, 2014, 94, 57-73.	2.1	17
144	A reinforcement learning based solution for cognitive network cooperation between co-located, heterogeneous wireless sensor networks. Ad Hoc Networks, 2014, 17, 98-113.	3.4	37

#	ARTICLE	IF	CITATIONS
145	Fine-grained management of CoAP interactions with constrained IoT devices. , 2014, , .		9
146	Simple RESTful sensor application development model using CoAP. , 2014, , .		3
147	Wireless body area networks: Status and opportunities. , 2014, , .		12
148	Coping with Network Dynamics Using Reinforcement Learning Based Network Optimization in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014, 76, 169.	1.8	0
149	Pattern mining in tourist attraction visits through association rule learning on Bluetooth tracking data: A case study of Ghent, Belgium. <i>Tourism Management</i> , 2014, 44, 67-81.	5.8	106
150	Enabling the web of things: facilitating deployment, discovery and resource access to IoT objects using embedded web services. <i>International Journal of Web and Grid Services</i> , 2014, 10, 218.	0.4	6
151	OCareClouds: improving home care by interconnecting elderly, care networks and their living environments. , 2014, , .		0
152	Facilitating the creation of IoT applications through conditional observations in CoAP. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013, 2013, .	1.5	30
153	Network virtualization as an integrated solution for emergency communication. <i>Telecommunication Systems</i> , 2013, 52, 1859-1876.	1.6	6
154	QoS Challenges in Wireless Sensor Networked Robotics. <i>Wireless Personal Communications</i> , 2013, 70, 1059-1075.	1.8	18
155	IETF Standardization in the Field of the Internet of Things (IoT): A Survey. <i>Journal of Sensor and Actuator Networks</i> , 2013, 2, 235-287.	2.3	177
156	Advanced spectrum sensing with parallel processing based on software-defined radio. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013, 2013, .	1.5	11
157	An LSPI Based Reinforcement Learning Approach to Enable Network Cooperation in Cognitive Wireless Sensor Network. , 2013, , .		1
158	Determination of the duty cycle of WLAN for realistic radio frequency electromagnetic field exposure assessment. <i>Progress in Biophysics and Molecular Biology</i> , 2013, 111, 30-36.	1.4	53
159	Energy-efficient off-body communication nodes with receive diversity. , 2013, , .		3
160	Online evaluation of sensing characteristics for radio platforms in the CREW federated testbed. , 2013, , .		1
161	Building embedded applications via REST services for the internet of things. , 2013, , .		1
162	Group Communication in Constrained Environments Using CoAP-based Entities. , 2013, , .		8

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163	Coexistence Aware Clear Channel Assessment. Lecture Notes in Computer Science, 2013, , 165-178.	1.0	3
164	Various Detection Techniques and Platforms for Monitoring Interference Condition in a Wireless Testbed. Lecture Notes in Computer Science, 2013, , 43-60.	1.0	6
165	Traffic Differentiation - A Basic Step Towards Providing End-to-End QoS on the Train-to-Wayside Wireless Communication System. , 2012, , .		0
166	Spectrum sensing for cognitive wireless applications inside aircraft cabins. , 2012, , .		3
167	Efficiently Observing Internet of Things Resources. , 2012, , .		6
168	Intra-, Inter-, and Extra-Container Path Loss for Shipping Container Monitoring Systems. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 889-892.	2.4	18
169	Leveraging upon standards to build the Internet of Things. , 2012, , .		2
170	An Eco-friendly Hybrid Urban Computing Network Combining Community-Based Wireless LAN Access and Wireless Sensor Networking. , 2012, , .		2
171	Energy awareness in self-growing sensor networks. , 2012, , .		1
172	Models for Wireless Data Communications in Indoor Train Environment. Wireless Personal Communications, 2012, 67, 741-760.	1.8	4
173	Facilitating Sensor Deployment, Discovery and Resource Access Using Embedded Web Services. , 2012, , .		18
174	Propagation modelling in a container environment. , 2012, , .		2
175	Internet of Things Virtual Networks: Bringing Network Virtualization to Resource-Constrained Devices. , 2012, , .		39
176	Network-wide synchronization in Wireless Sensor Networks. , 2012, , .		3
177	Geolocation database beyond TV white spaces? Matching applications with database requirements. , 2012, , .		20
178	The History of WiMAX: A Complete Survey of the Evolution in Certification and Standardization for IEEE 802.16 and WiMAX. IEEE Communications Surveys and Tutorials, 2012, 14, 1183-1211.	24.8	57
179	A novel network architecture for train-to-wayside communication with quality of service over heterogeneous wireless networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	13
180	Adaptive routing for mobile ad hoc networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	5

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181	Avoiding collisions between IEEE 802.11 and IEEE 802.15.4 through coexistence aware clear channel assessment. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012, 2012, .	1.5	30
182	PluralisMAC: a generic multi-MAC framework for heterogeneous, multiservice wireless networks, applied to smart containers. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012, 2012, .	1.5	3
183	Efficient Calculation of Sensor Utility and Sensor Removal in Wireless Sensor Networks for Adaptive Signal Estimation and Beamforming. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 5857-5869.	3.2	31
184	Concept and framework of a self-regulating symbiotic network. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012, 2012, .	1.5	4
185	A Comprehensive Survey of Wireless Body Area Networks. <i>Journal of Medical Systems</i> , 2012, 36, 1065-1094.	2.2	648
186	Signalling minimizing handover parameter optimization algorithm for LTE networks. <i>Wireless Networks</i> , 2012, 18, 295-306.	2.0	7
187	Adoption of Vehicular Ad Hoc Networking Protocols by Networked Robots. <i>Wireless Personal Communications</i> , 2012, 64, 489-522.	1.8	8
188	A negotiation-based networking methodology to enable cooperation across heterogeneous co-located networks. <i>Ad Hoc Networks</i> , 2012, 10, 901-917.	3.4	9
189	TV-kiosk: An Open and Extensible Platform for the Wellbeing of an Ageing Population. <i>Lecture Notes in Computer Science</i> , 2012, , 54-63.	1.0	5
190	Federating Wired and Wireless Test Facilities through Emulab and OMF: The iLab.t Use Case. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 305-320.	0.2	16
191	The IBBT w-iLab.t: A Large-Scale Generic Experimentation Facility for Heterogeneous Wireless Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 7-8.	0.2	5
192	Remote Control of Robots for Setting Up Mobility Scenarios during Wireless Experiments in the IBBT w-iLab.t. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 425-426.	0.2	3
193	Weighted Performance Based Handover Parameter Optimization in LTE. , 2011, , .		37
194	Suitability of the wireless testbed w-iLab.t for VANET research. , 2011, , .		5
195	Exploring a Boundary-Less Cooperation Approach for Heterogeneous Co-Located Networks. , 2011, , .		0
196	Approximation of the IEEE 802.11p standard using commercial off-the-shelf IEEE 802.11a hardware. , 2011, , .		9
197	On the feasibility of utilizing smartphones for vehicular ad hoc networking. , 2011, , .		20
198	Support for heterogeneous dynamic network environments through a reconfigurable network service platform. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
199	Real-time wide-band spectrum sensing for cognitive radio. , 2011, , .		3
200	Detailed Modeling of MAC Throughput and Ranges for Mobile WiMAX. IEEE Communications Letters, 2011, 15, 839-841.	2.5	2
201	Automated linear regression tools improve RSSI WSN localization in multipath indoor environment. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	38
202	Enabling direct connectivity between heterogeneous objects in the internet of things through a network-service-oriented architecture. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	36
203	An enhanced weighted performance-based handover parameter optimization algorithm for LTE networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	26
204	A survey on wireless body area networks. Wireless Networks, 2011, 17, 1-18.	2.0	878
205	IDRA: A flexible system architecture for next generation wireless sensor networks. Wireless Networks, 2011, 17, 1423-1440.	2.0	18
206	Managed Ecosystems of Networked Objects. Wireless Personal Communications, 2011, 58, 125-143.	1.8	8
207	Non-intrusive aggregation in wireless sensor networks. Ad Hoc Networks, 2011, 9, 324-340.	3.4	9
208	Development of a dynamic symbiotic network planner and application to a living lab testbed. , 2011, , .		0
209	Data traffic differentiation and QoS on the train, in fast parameter varying, heterogeneous wireless networks. , 2011, , .		4
210	The w-iLab.t Testbed. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 145-154.	0.2	39
211	Building the business case for wireless sensors in a factory setting. , 2011, , .		1
212	Techno-economical viability of cognitive solutions for a factory scenario. , 2011, , .		10
213	Distributed Ontology-Based Monitoring on the IBBT WiLab.t Infrastructure. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 509-525.	0.2	3
214	Distributed Spectrum Sensing in a Cognitive Networking Testbed. Lecture Notes in Computer Science, 2011, , 325-326.	1.0	2
215	Handover Parameter Optimization in LTE Self-Organizing Networks. , 2010, , .		148
216	Strategies and Challenges for Interconnecting Wireless Mesh and Wireless Sensor Networks. Wireless Personal Communications, 2010, 53, 443-463.	1.8	20

#	ARTICLE	IF	CITATIONS
217	SCTP for robust and flexible IP anycast services. <i>Computer Communications</i> , 2010, 33, 365-371.	3.1	1
218	Design and Implementation of a Generic Energy-Harvesting Framework Applied to the Evaluation of a Large-Scale Electronic Shelf-Labeling Wireless Sensor Network. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010, 2010, .	1.5	22
219	Validation of path loss by heuristic prediction tool with path loss and RSSI measurements. , 2010, , .		3
220	Performance Analysis of WiMAX for Mobile Applications. , 2010, , .		9
221	Supporting Protocol-Independent Adaptive QoS in Wireless Sensor Networks. , 2010, , .		4
222	The ADAMO project: Architecture to support communication for emergency services. , 2010, , .		2
223	Real-Life Performance of Protocol Combinations for Wireless Sensor Networks. , 2010, , .		9
224	A Throughput Analysis at the MAC Layer of Mobile WiMAX. , 2010, , .		14
225	Spectrum Sharing in Heterogeneous Wireless Networks: An FP7 CREW Use Case. <i>Lecture Notes in Computer Science</i> , 2010, , 203-204.	1.0	1
226	Interconnecting Wireless Sensor and Wireless Mesh Networks: Challenges and Strategies. , 2009, , .		8
227	Multipath Routing Issues in Virtual Private Ad Hoc Networks. , 2009, , .		0
228	Fast and safe emergency communication through network virtualization. , 2009, , .		2
229	Characterization of On-Body Communication Channel and Energy Efficient Topology Design for Wireless Body Area Networks. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 933-945.	3.6	259
230	Municipalities as a Driver for Wireless Broadband Access. <i>Wireless Personal Communications</i> , 2009, 49, 391-414.	1.8	6
231	An Information Driven Sensornet Architecture. , 2009, , .		12
232	Definition and Evaluation of Local Path Recovery Mechanisms in Wireless Sensor and Actuator Networks. , 2009, , .		0
233	Symbiotic Networks: Towards a New Level of Cooperation Between Wireless Networks. <i>Wireless Personal Communications</i> , 2008, 45, 479-495.	1.8	33
234	Improving Reliability in Multi-hop Body Sensor Networks. , 2008, , .		47

#	ARTICLE	IF	CITATIONS
235	A cluster driven channel assignment mechanism for wireless mesh networks. , 2008, , .		5
236	Broadening the Concept of Aggregation in Wireless Sensor Networks. , 2008, , .		2
237	Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer. IEEE Transactions on Wireless Communications, 2008, 7, 3359-3371.	6.1	333
238	AMoQoS: Adaptive Modular QoS Architecture for Wireless Sensor Networks. , 2008, , .		9
239	Study on Distance of Interference Sources on Wireless Sensor Network. , 2008, , .		7
240	MEERA: Cross-Layer Methodology for Energy Efficient Resource Allocation in Wireless Networks. IEEE Transactions on Wireless Communications, 2008, 7, 98-109.	6.1	31
241	Design of a scalable its architecture based on IP datacast over DVB-H/SH. , 2008, , .		2
242	SCTP as mobility protocol for enhancing internet on the train. , 2008, , .		2
243	Universal Modular Framework for Sensor Networks. Lecture Notes in Electrical Engineering, 2008, , 237-253.	0.3	3
244	Distributed On Demand Channel Selection in Multi Channel, Multi Interface Wireless Mesh Networks. , 2007, , .		3
245	Underground Broadband: Design of a Reliable WLAN Gap Filler Solution. , 2007, , .		0
246	Scalable Multiple-Description Image Coding Based on Embedded Quantization. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-11.	1.7	10
247	The Need for Cooperation and Relaying in Short-Range High Path Loss Sensor Networks. , 2007, , .		59
248	A Low-delay Protocol for Multihop Wireless Body Area Networks. , 2007, , .		136
249	A Wireless Mesh Monitoring and Planning Tool for Emergency Services. , 2007, , .		12
250	MEERA: cross-layer methodology for energy efficient resource allocation in wireless networks. IEEE Transactions on Wireless Communications, 2007, 6, 617-628.	6.1	38
251	QoS-enabled Internet-on-train network architecture: inter-working by MMP-SCTP versus MIP. , 2007, , .		7
252	Impact of the access network topology on the handoff performance. Wireless Networks, 2007, 13, 203-220.	2.0	3

#	ARTICLE	IF	CITATIONS
253	MOFBAN: A Lightweight Modular Framework for Body Area Networks. Lecture Notes in Computer Science, 2007, , 610-622.	1.0	11
254	The Wireless Autonomous Spanning tree Protocol for Multihop Wireless Body Area Networks. , 2006, , .		43
255	Distributed cognitive coexistence of 802.15.4 with 802.11. , 2006, , .		79
256	Mathematical model of dissipative parametric vibrations of flexible plates with nonhomogeneous boundary conditions. Mathematical Problems in Engineering, 2006, 2006, 1-16.	0.6	2
257	Virtual Private Ad Hoc Networking. Wireless Personal Communications, 2006, 38, 125-141.	1.8	17
258	Location assisted fast vertical handover for UMTS/WLAN overlay networks. Computer Communications, 2006, 29, 2601-2611.	3.1	3
259	Analysis of decentralized resource and service discovery mechanisms in wireless multi-hop networks. Computer Communications, 2006, 29, 2710-2720.	3.1	4
260	Q-MEHROM: Mobility support and resource reservations for mobile senders and receivers. Computer Networks, 2006, 50, 1158-1175.	3.2	3
261	Design of wireless mesh networks for aggregating traffic of fast moving users. , 2006, , .		3
262	Performance evaluation of a framework to support path changes in IP-based access networks. , 2006, , .		0
263	The Wireless Autonomous Spanning tree Protocol for Multihop Wireless Body Area Networks. , 2006, , .		42
264	Wireless Shadow Network Setup Through the Mehrom Micromobility Protocol. , 2006, , .		0
265	Towards Ethernet-Based Wireless Mesh Networks for Fast Moving Users. , 2006, , .		4
266	WLC10-5: Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	54
267	A Tunnel-Based QoS Management Framework for Delivering Broadband Internet on Trains. Lecture Notes in Computer Science, 2006, , 552-561.	1.0	4
268	Optimizing Routing Schemes for Fast Moving Users in MST-Based Networks. Lecture Notes in Computer Science, 2006, , 4-20.	1.0	0
269	Optimizing Transmission and Shutdown for Energy-Efficient Real-time Packet Scheduling in Clustered Ad Hoc Networks. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	1.5	10
270	FAMOUS: A Network Architecture for Delivering Multimedia Services to FAST MOVING USERS. Wireless Personal Communications, 2005, 33, 281-304.	1.8	39

#	ARTICLE	IF	CITATIONS
271	Simple-to-fabricate and highly efficient spot-size converters using antiresonant reflecting optical waveguides. , 2003, , .		0
272	<title>Electrically pumped grating-assisted resonant-cavity light-emitting diodes</title>. , 2002, , .		7
273	High-efficiency 650-nm thin film light-emitting diodes. , 2001, 4278, 36.		0
274	<title>Extended-wavelength InGaAs detectors grown by metal-organic vapor phase epitaxy (MOVPE) on compliant substrates</title>. , 2001, , .		2
275	Chemical mapping of InGaN MQWs. Journal of Crystal Growth, 2001, 230, 438-441.	0.7	7
276	A hybrid indoor localization solution using a generic architectural framework for sparse distributed wireless sensor networks. , 0, , .		6