

Klaus Moessner

List of Publications by Year in descending order

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Version: 2024-02-01

171
papers

3,629
citations

236925

25
h-index

206112

48
g-index

174
all docs

174
docs citations

174
times ranked

4060
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Development, and Evaluation of 5G-Enabled Vehicular Services: The 5G-HEART Perspective. Sensors, 2022, 22, 426.	3.8	15
2	Radio Resource Management Approaches for Reliable Device-to-Device (D2D) Communication in Wireless Industrial Applications. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 905-916.	7.9	15
3	Multi-Timescale QoE Provisioning for Adaptive Video Streaming in Heterogeneous Deployments. IEEE Transactions on Vehicular Technology, 2021, 70, 1894-1909.	6.3	2
4	Analysing environmental impact of large-scale events in public spaces with cross-domain multimodal data fusion. Computing (Vienna/New York), 2021, 103, 1959-1981.	4.8	5
5	5G for Vehicular Use Cases: Analysis of Technical Requirements, Value Propositions and Outlook. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 73-96.	4.8	8
6	5G Network Requirement Analysis and Slice Dimensioning for Sustainable Vehicular Services. , 2021, , .		6
7	Energy-Efficient QoE-Driven Strategies for Context-Aware RAT Selection. IEEE Transactions on Green Communications and Networking, 2020, 4, 858-872.	5.5	1
8	Dynamic Scheduler Management Using Deep Learning. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 575-585.	7.9	3
9	Energy-Efficient Short Packet Communications for Uplink NOMA-Based Massive MTC Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 12066-12078.	6.3	55
10	SmartTags: IoT Product Passport for Circular Economy Based on Printed Sensors and Unique Item-Level Identifiers. Sensors, 2019, 19, 586.	3.8	61
11	Analysing real world data streams with spatio-temporal correlations: Entropy vs. Pearson correlation. Automation in Construction, 2018, 88, 87-100.	9.8	69
12	An Ingestion and Analytics Architecture for IoT Applied to Smart City Use Cases. IEEE Internet of Things Journal, 2018, 5, 765-774.	8.7	70
13	Co-Primary Spectrum Sharing in Uplink SC-FDMA Networks. , 2018, , .		0
14	Lessons from SmartCampus: External Experimenting with User-Centric Internet-of-Things Testbed. Wireless Personal Communications, 2017, 93, 709-723.	2.7	9
15	Predictive Analytics for Complex IoT Data Streams. IEEE Internet of Things Journal, 2017, 4, 1571-1582.	8.7	98
16	Cloud Internet of Things Framework for Enabling Services in Smart Cities. , 2017, , 163-191.		7
17	Distributed sensor data computing in smart city applications. , 2017, , .		15
18	Ontologies and context modeling for the Web of Things. , 2017, , 3-36.		11

#	ARTICLE	IF	CITATIONS
19	Are Small Cells and Network Intelligence at the Edge the Drivers for 5G Market Adoption? The SESAME Case. Communications in Computer and Information Science, 2017, , 693-703.	0.5	0
20	Priority Service Provisioning and Maxâ€“Min Fairness: A Utility-Based Flow Control Approach. Journal of Network and Systems Management, 2017, 25, 397-415.	4.9	3
21	SocioTal â€” The development and architecture of a social IoT framework. , 2017, , .		6
22	Spatial Indexing for Data Searching in Mobile Sensing Environments. Sensors, 2017, 17, 1427.	3.8	14
23	Cyberâ€“Physicalâ€“Social Frameworks for Urban Big Data Systems: A Survey. Applied Sciences (Switzerland), 2017, 7, 1017.	2.5	56
24	Using Sensors to Study Home Activities. Journal of Sensor and Actuator Networks, 2017, 6, 32.	3.9	12
25	Search Techniques for the Web of Things: A Taxonomy and Survey. Sensors, 2016, 16, 600.	3.8	46
26	An Arrival and Departure Time Predictor for Scheduling Communication in Opportunistic IoT. Sensors, 2016, 16, 1852.	3.8	1
27	Quality of service provision and capacity expansion through extendedâ€“DSA for 5G. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1250-1261.	3.9	5
28	Real World City Event Extraction from Twitter Data Streams. Procedia Computer Science, 2016, 98, 443-448.	2.0	27
29	Multilateration localization based on Singular Value Decomposition for 3D indoor positioning. , 2016, , .		11
30	Leveraging the Internet of Things: Integration of Sensors and Cloud Computing Systems. International Journal of Distributed Sensor Networks, 2016, 12, 9764287.	2.2	13
31	Quality of service provision and capacity expansion through extended-DSA for 5G. , 2016, , .		10
32	Quantifying trust relationships based on real-world social interactions. , 2016, , .		5
33	Optimized Root Selection Algorithm for Many-to-Many Communications in ICN. , 2016, , .		1
34	Licensed Spectrum Sharing Schemes for Mobile Operators: A Survey and Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 2591-2623.	39.4	177
35	A Survey on Mobile Social Signal Processing. ACM Computing Surveys, 2016, 48, 1-52.	23.0	14
36	Practical Spectrum Aggregation for Secondary Networks With Imperfect Sensing. IEEE Transactions on Vehicular Technology, 2016, 65, 5474-5484.	6.3	4

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37	Distributed Topology Control with SINR Based Interference for Multihop Wireless Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 246-258.	0.3	0
38	Context-aware stream processing for distributed IoT applications. , 2015, , .		24
39	Distributed Resource Reservation in Hybrid MAC With Admission Control for Wireless Mesh Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5891-5903.	6.3	6
40	A ranking method for sensor services based on estimation of service access cost. Information Sciences, 2015, 319, 1-17.	6.9	12
41	EHOPES: Data-centered Fog platform for smart living. , 2015, , .		64
42	Accurate detection of real-world social interactions with smartphones. , 2015, , .		18
43	Predicting complex events for pro-active IoT applications. , 2015, , .		21
44	QoS and Energy Efficient Resource Allocation in Uplink SC-FDMA Systems. IEEE Transactions on Wireless Communications, 2015, 14, 3033-3045.	9.2	23
45	An experimental study on geospatial indexing for sensor service discovery. Expert Systems With Applications, 2015, 42, 3528-3538.	7.6	33
46	Energy-Efficient Sensor Scheduling Algorithm in Cognitive Radio Networks Employing Heterogeneous Sensors. IEEE Transactions on Vehicular Technology, 2015, 64, 1243-1249.	6.3	26
47	Distributed learning game based spectrum sharing and resource selection for femtocells. , 2015, , .		0
48	Distributed Admission Control with Soft Resource Allocation for Hybrid MAC in Home M2M Networks. , 2015, , .		1
49	Energy-Efficient WLAN Offloading Through Network Discovery Period Optimization. IEEE Transactions on Vehicular Technology, 2015, 64, 2591-2602.	6.3	4
50	Dynamic Heterogeneous Learning Games for Opportunistic Access in LTE-Based Macro/Femtocell Deployments. IEEE Transactions on Wireless Communications, 2015, 14, 2294-2308.	9.2	63
51	The 5G Huddle [From the Guest Editors]. IEEE Vehicular Technology Magazine, 2015, 10, 28-31.	3.4	9
52	QoS and energy efficient resource allocation in downlink OFDMA systems. , 2015, , .		1
53	SINR Based Topology Control for Multihop Wireless Networks with Fault Tolerance. , 2015, , .		3
54	Geospatial ontology-based mission assignment in Wireless Sensor Networks. , 2015, , .		0

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55	Contextual occupancy detection for smart office by pattern recognition of electricity consumption data. , 2015, , .		36
56	Probabilistic Matchmaking Methods for Automated Service Discovery. IEEE Transactions on Services Computing, 2014, 7, 654-666.	4.6	54
57	Enabling Query of Frequently Updated Data from Mobile Sensing Sources. , 2014, , .		11
58	The study on spectrum/channel fragmentation from dynamic spectrum aggregation in CRNs. , 2014, , .		3
59	A Survey of Radio Resource Management for Spectrum Aggregation in LTE-Advanced. IEEE Communications Surveys and Tutorials, 2014, 16, 745-760.	39.4	144
60	CARD: Context-Aware Resource Discovery for mobile Internet of Things scenarios. , 2014, , .		8
61	Smart Cities via Data Aggregation. Wireless Personal Communications, 2014, 76, 149-168.	2.7	20
62	Semantic enablers for dynamic digitalâ€“physical object associations in a federated node architecture for the Internet of Things. Ad Hoc Networks, 2014, 18, 102-120.	5.5	22
63	Leveraging MPLS Backup Paths for Distributed Energy-Aware Traffic Engineering. IEEE Transactions on Network and Service Management, 2014, 11, 235-249.	4.9	17
64	On IGP link weight optimization for joint energy efficiency and load balancing improvement. Computer Communications, 2014, 50, 130-141.	5.1	12
65	A Sub-Optimal Channel Switching-Aware Spectrum Aggregation Approach for CRNs. , 2014, , .		1
66	Opportunistic Spectrum Aggregation for Cognitive Communications Under Collision Constraints. , 2014, , .		3
67	Enabling smart cities through a cognitive management framework for the internet of things. , 2013, 51, 102-111.		336
68	Comparison of reliability, delay and complexity for standalone cognitive radio spectrum sensing schemes. IET Communications, 2013, 7, 799-807.	2.2	62
69	Robust spectrum sensing based on statistical tests. IET Communications, 2013, 7, 808-817.	2.2	15
70	Shared use of radio spectrum in the EU: From research projects to standards. , 2013, , .		3
71	Distributed power control for secondary spectrum trading with incumbent protection. , 2013, , .		0
72	Advances in base- and mobile-station aided cooperative wireless communications: An overview. IEEE Vehicular Technology Magazine, 2013, 8, 57-69.	3.4	16

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73	Robust collaborative spectrum sensing in the presence of deleterious users. IET Communications, 2013, 7, 49-56.	2.2	11
74	Survey of Experimental Evaluation Studies for Wireless Mesh Network Deployments in Urban Areas Towards Ubiquitous Internet. IEEE Communications Surveys and Tutorials, 2013, 15, 223-239.	39.4	49
75	Composition of services in pervasive environments: A Divide and Conquer approach. , 2013, , .		10
76	Resource Reservation Schemes for IEEE 802.11-Based Wireless Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 1042-1061.	39.4	29
77	Implementation of federated query processing on Linked Data. , 2013, , .		2
78	Interference Management in Femtocells. IEEE Communications Surveys and Tutorials, 2013, 15, 293-311.	39.4	294
79	Dynamic Task Allocation in Multi-Hop Multimedia Wireless Sensor Networks with Low Mobility. Sensors, 2013, 13, 13998-14028.	3.8	15
80	Collaborative radio resource allocation for the downlink of multi-cell multi-carrier systems. IET Communications, 2013, 7, 430-438.	2.2	1
81	Optimizing Link Sleeping Reconfigurations in ISP Networks with Off-Peak Time Failure Protection. IEEE Transactions on Network and Service Management, 2013, 10, 176-188.	4.9	15
82	Distributed Power Control and User Selection Algorithms for Cognitive Radios. , 2013, , .		0
83	Optimal Network Discovery Period for Energy-Efficient WLAN Offloading. , 2013, , .		4
84	Machine Learning Based Knowledge Acquisition on Spectrum Usage for LTE Femtocells. , 2013, , .		8
85	Knowledge Representation in the Internet of Things: Semantic Modelling and its Applications. Automatika, 2013, 54, 388-400.	2.0	52
86	A Comprehensive Ontology for Knowledge Representation in the Internet of Things. , 2012, , .		114
87	Selecting users in energy-efficient collaborative spectrum sensing. , 2012, , .		3
88	Optimal Strategy for QoS Provision under Spectrum Mobility in Cognitive Radio Networks. , 2012, , .		8
89	A Hybrid Semantic Matchmaker for IoT Services. , 2012, , .		28
90	Device discovery in future service platforms through SIP. , 2012, , .		6

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91	Utility-Based Dynamic Spectrum Aggregation Algorithm in Cognitive Radio Networks. , 2012, , .		2
92	Order-Statistic Based Spectrum Sensing for Cognitive Radio. IEEE Communications Letters, 2012, 16, 592-595.	4.1	47
93	An Intelligent Task Allocation Scheme for Multihop Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 444-451.	5.6	64
94	Optimization for time-driven link sleeping reconfigurations in ISP backbone networks. , 2012, , .		13
95	Energy efficient ANDSF-assisted network discovery for non-3GPP access networks. , 2012, , .		11
96	Codebook Based Single-User MIMO System Design with Widely Linear Processing. IEEE Transactions on Communications, 2012, 60, 1-7.	7.8	7
97	Distributed interference-aware admission control with soft resource allocation for hybrid MAC in wireless mesh networks. , 2012, , .		2
98	Distributed MAC scheduling mechanism based on resource reservation for IEEE 802.11e-based multi-hop wireless networks. , 2012, , .		0
99	An overview of learning mechanisms for cognitive systems. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	11
100	Maximum Outage Capacity in Dense Indoor Femtocell Networks with Joint Energy and Spectrum Utilization. IEEE Transactions on Wireless Communications, 2012, 11, 4416-4425.	9.2	8
101	Toward efficient protocol design through protocol profiling and performance assessment: using formal verification in a different context. International Journal of Communication Systems, 2012, 25, 1415-1431.	2.5	1
102	Distributed power control algorithm for cognitive radios with primary protection via spectrum sensing under user mobility. Ad Hoc Networks, 2012, 10, 740-751.	5.5	9
103	Knowledge Management Toolbox: Machine Learning for Cognitive Radio Networks. IEEE Vehicular Technology Magazine, 2012, 7, 91-99.	3.4	7
104	Cognitive Radio Systems Evaluation: Measurement, Modeling, and Emulation Approach. IEEE Vehicular Technology Magazine, 2012, 7, 77-84.	3.4	8
105	A Fuzzy Reinforcement Learning Approach for Pre-Congestion Notification Based Admission Control. Lecture Notes in Computer Science, 2012, , 26-37.	1.3	5
106	Multipath Network Coding in Wireless Mesh Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 267-274.	0.3	0
107	A Context Aware Architecture for Energy Efficient Cognitive Radio. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 452-462.	0.3	1
108	Delay Model for Super-Frame Based Resource Reservation in Distributed Wireless Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 89-104.	0.3	0

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109	Providing and Evaluating the Mobile Web Service Distribution Mechanisms Using Fuzzy Logic. Journal of Software, 2012, 7, .	0.6	4
110	Providing Light Weight Distributed Web Services from Mobile Hosts. , 2011, , .		5
111	Cognitive Time Variant Power Control in Slow Fading Mobile Channels. , 2011, , .		0
112	Automated group formation in decentralised environments. , 2011, , .		0
113	Efficient Spectrum Management among Spectrum Sharing UMTS Operators. , 2011, , .		3
114	Service Continuity for Subscribers of the Mobile Real World Internet. , 2011, , .		6
115	A downlink power control scheme for interference avoidance in femtocells. , 2011, , .		23
116	Distributing resource intensive mobile web services. , 2011, , .		8
117	A Distributed Energy-Efficient Re-Clustering Solution for Wireless Sensor Networks. , 2011, , .		7
118	An Energy-Efficient Clustering Solution for Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3973-3983.	9.2	245
119	A Probabilistic Latent Factor approach to service ranking. , 2011, , .		7
120	Dynamic Spectrum Allocation Algorithm with Interference Management in Co-Existing Networks. IEEE Communications Letters, 2011, 15, 932-934.	4.1	26
121	IEEE 1900.6: spectrum sensing interfaces and data structures for dynamic spectrum access and other advanced radio communication systems standard: technical aspects and future outlook. IEEE Communications Magazine, 2011, 49, 118-127.	6.1	104
122	Spectrum sensing for cognitive radio systems: technical aspects and standardization activities of the IEEE P1900.6 working group. IEEE Wireless Communications, 2011, 18, 30-37.	9.0	6
123	Context-aware management for sensor networks. , 2011, , .		13
124	Dynamic spectrum allocation algorithm with interference management in displaced networks. , 2011, , .		1
125	A mediated gossiping mechanism for large-scale sensor networks. , 2011, , .		2
126	Robust spectrum sensing for cognitive radio based on statistical tests. , 2011, , .		1

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127	Distributed resource reservation for real time sessions in multi-hop wireless networks. , 2011, , .		2
128	Distributed Power Control for Cognitive Radio Networks, Based on Incumbent Outage Information. , 2011, , .		1
129	Shared Backup Network Provision for Virtual Network Embedding. , 2011, , .		81
130	Statistical models of spectrum opportunities for cognitive radio. , 2011, , .		6
131	Functionality and Collaboration Mechanisms for Cognitive Wireless Networks and Systems. Journal of Network and Systems Management, 2010, 18, 1-3.	4.9	0
132	Collaborative Spectrum Sensing Optimisation Algorithms for Cognitive Radio Networks. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-20.	0.6	46
133	Using formal verification methods and tools for protocol profiling and performance assessment in mobile and wireless environments. , 2010, , .		2
134	Distributed Resource Reservation Mechanism for IEEE 802.11e-Based Networks. , 2010, , .		7
135	Latency and Energy-Consumption Optimized Task Allocation in Wireless Sensor Networks. , 2010, , .		20
136	Policy-Aware Virtual relay placement for inter-domain path diversity. , 2010, , .		0
137	Experimental Study of Multi-Resolution Spectrum Opportunity Detection Using Wavelet Analysis. , 2010, , .		4
138	Towards efficient protocol design through protocol profiling and verification of performance and operational metrics. , 2010, , .		2
139	Providing SOAP Web Services and RESTful Web Services from Mobile Hosts. , 2010, , .		62
140	Mobility driven energy detection based spectrum sensing framework of a cognitive radio. , 2010, , .		15
141	Distributed Power Control for Cognitive Radios with Primary Protection via Spectrum Sensing. , 2010, , .		8
142	Intelligent Multimedia Presentation in Ubiquitous Multidevice Scenarios. IEEE MultiMedia, 2010, 17, 52-63.	1.7	9
143	Emerging, Self-Management Functionality for Introducing Cognition in the Wireless, B3G World. Wireless Personal Communications, 2009, 48, 33-47.	2.7	2
144	Traffic modelling and forecasting using genetic algorithms for next-generation cognitive radio applications. Annales Des Telecommunications/Annals of Telecommunications, 2009, 64, 535-543.	2.5	7

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145	Optimisation of collaborative spectrum sensing with SIMO cognitive terminals using genetic algorithm. , 2009, , .		4
146	Implementation of wavelet analysis for spectrum opportunity detection. , 2009, , .		7
147	A framework for mobile, context-aware applications. , 2009, , .		8
148	Collaborative spectrum sensing: Optimising the number of collaborating users. , 2009, , .		3
149	Collaborative spectrum sensing in OFDM-based Cognitive Radio. , 2009, , .		1
150	Mobile Multimodality: A Theoretical Approach to Facilitate Virtual Device Environments. Mobile Networks and Applications, 2008, 13, 569-582.	3.3	2
151	ACM/Springer Mobile Networks and Applications (MONET). Mobile Networks and Applications, 2008, 13, 543-546.	3.3	0
152	Ontology-based context inference and query for mobile devices. , 2008, , .		8
153	Capacity of grid-oriented wireless mesh networks. , 2008, , .		0
154	On the enhancement of mobility and multimedia communications in heterogeneous RANs. International Journal of Internet Protocol Technology, 2008, 3, 22.	0.2	1
155	Context for Multimedia Services Adaptation. , 2008, , .		1
156	Device and service descriptions for ontology-based ubiquitous multimedia services. , 2008, , .		2
157	Context-Aware Service Adaptation Management. , 2007, , .		8
158	Context-Aware Learning for Intelligent Mobile Multimodal user Interfaces. , 2007, , .		3
159	Map of Relaying Messages (MORM) an approach of message distribution enabling Network Advertisement and Discovery. , 2007, , .		0
160	Analysis of Complexity and Transaction Costs for Cooperating Networks. , 2007, , .		1
161	End-to-End Reconfigurability in Heterogeneous Wireless Systems - Software and Cognitive Radio Solutions enriched by Policy- and Context-based Decision Making. , 2007, , .		5
162	End-to-End Architecture for Cognitive Reconfigurable Wireless Networks. , 2007, , .		4

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163	SPICE: Evolving IMS to Next Generation Service Platforms. , 2007, , .		7
164	Device and service descriptions in Personal Distributed Environments. , 2007, , .		4
165	An alternative concept to scanning process for cognitive radio systems: technical and regulatory issues. , 2007, , .		5
166	Adaptive Resource Management Platform for Reconfigurable Networks. Mobile Networks and Applications, 2006, 11, 799-811.	3.3	8
167	Market Driven Dynamic Spectrum Allocation over Space and Time among Radio-Access Networks: DVB-T and B3G CDMA with Heterogeneous Terminals. Mobile Networks and Applications, 2006, 11, 847-860.	3.3	14
168	Efficient Group-Based Multimedia-on-Demand Service Delivery in Wireless Networks. IEEE Transactions on Broadcasting, 2006, 52, 492-504.	3.2	5
169	Context Dissemination for Autonomic Communication Systems. Lecture Notes in Computer Science, 2006, , 237-242.	1.3	0
170	Software radio and reconfiguration management. Computer Communications, 2003, 26, 26-35.	5.1	7
171	Semantic Web in Ubiquitous Mobile Communications. , 0, , 266-287.		2