Michel Kadoch

List of Publications by Year
in descending order

160 papers	2,589 citations	411340 20 h-index	242451 47 g-index
161 all docs	161 docs citations	161 times ranked	2503 citing authors

#	Article	IF	Citations
1	Multiagent RL Aided Task Offloading and Resource Management in Wi-Fi 6 and 5G Coexisting Industrial Wireless Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 2923-2933.	7.2	10
2	Energy-Efficient Method Based on Dynamic Topology Switching and Reliability in SDNs. IEEE Transactions on Sustainable Computing, 2022, 7, 427-440.	2.2	0
3	Intelligent-Driven Green Resource Allocation for Industrial Internet of Things in 5G Heterogeneous Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 520-530.	7.2	28
4	Space-Air-Ground Integrated Network Development and Applications in High-Speed Railways: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10066-10085.	4.7	12
5	An Innovative Infrastructure Based on Shape-Adaptive RIS for Smart Industrial IoTs. Electronics (Switzerland), 2022, 11, 391.	1.8	1
6	Decoupling Energy Efficient Approach for Hybrid Precoding-Based mmWave Massive MIMO-NOMA With SWIPT. IEEE Access, 2022, 10, 28868-28884.	2.6	11
7	Network Coding-Based D2D Transmission for Public Safety Networks over LTE HetNets and 5G Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-15.	0.8	0
8	Machine Learning-Based Satellite Routing for SAGIN IoT Networks. Electronics (Switzerland), 2022, 11, 862.	1.8	5
9	Data detection method for uplink massive MIMO systems based on the long recurrence enlarged conjugate gradient. International Journal of Electrical and Computer Engineering, 2022, 12, 3911.	0.5	0
10	ECSâ€CPâ€ABE: A lightweight elliptic curve signcryption scheme based on ciphertextâ€policy attributeâ€based encryption to secure downlink multicast communication in edge envisioned advanced metering infrastructure networks. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4102.	2.6	7
11	Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. IEEE Internet of Things Journal, 2021, 8, 3476-3489.	5.5	28
12	Reliability-Oriented and Resource-Efficient Service Function Chain Construction and Backup. IEEE Transactions on Network and Service Management, 2021, 18, 240-257.	3.2	20
13	Recent Advances in Mobile Ad Hoc Networks. Electronics (Switzerland), 2021, 10, 1446.	1.8	0
14	Intelligent Reflecting Surface-Assisted ambient Backscatter Networks: Reflection Design. , 2021, , .		2
15	A Distributed Security SDN Cluster Architecture for Smart Grid Based on Blockchain Technology. Security and Communication Networks, 2021, 2021, 1-9.	1.0	4
16	Intelligent Reflective Surface Based 6G Communications for Sustainable Energy Infrastructure. IEEE Wireless Communications, 2021, 28, 49-55.	6.6	113
17	Energy-Efficient Data Collection and Device Positioning in UAV-Assisted IoT. IEEE Internet of Things Journal, 2020, 7, 1122-1139.	5.5	221
18	Mobility Load Balancing with Handover Minimization for 5G Small Cell Networks. , 2020, , .		4

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19	A Spectrum Resource Sharing Algorithm for IoT Networks based on Reinforcement Learning. , 2020, , .		3
20	Performance Analysis of Rateless-Coded Non-Orthogonal Multiple Access over Nakagami-m Fading Channels with Delay Constrains. , 2020, , .		2
21	CoopeRA: Cooperator Resource Allocation Algorithm based On Clustering and D2D Transmissions in LTE Heterogeneous Networks and 5G networks. , 2020, , .		0
22	Real-Time Remote Health Monitoring System Driven by 5G MEC-IoT. Electronics (Switzerland), 2020, 9, 1753.	1.8	43
23	Improved Kalman Filter Variants for UAV Tracking with Radar Motion Models. Electronics (Switzerland), 2020, 9, 768.	1.8	13
24	A Human-Guided Machine Learning Approach for 5G Smart Tourism IoT. Electronics (Switzerland), 2020, 9, 947.	1.8	19
25	Integration of 5G Networks and Internet of Things for Future Smart City. Wireless Communications and Mobile Computing, 2020, 2020, 1-2.	0.8	9
26	Dynamic Resource Allocation With RAN Slicing and Scheduling for uRLLC and eMBB Hybrid Services. IEEE Access, 2020, 8, 34538-34551.	2.6	37
27	Deep Learning-Based Resource Allocation for 5G Broadband TV Service. IEEE Transactions on Broadcasting, 2020, 66, 800-813.	2.5	48
28	EV Charging Behavior Analysis Using Hybrid Intelligence for 5G Smart Grid. Electronics (Switzerland), 2020, 9, 80.	1.8	21
29	UCAA: User-Centric User Association and Resource Allocation in Fog Computing Networks. IEEE Access, 2020, 8, 10671-10685.	2.6	19
30	New Courteous Algorithm for Uplink Scheduling in LTE-Advanced and 5G Networks. Journal of Computer Networks and Communications, 2020, 2020, 1-15.	1.2	3
31	Airport network traffic prediction in 5G scenarios: a deep learning approach. , 2020, , .		1
32	Design of Environmental backscatter tag antenna for 5G Internet of things. , 2020, , .		0
33	Remote Healthcare Monitoring System for Aging Population Based on IoT and Big Data Analysis. , 2020, , .		2
34	5G Resource Scheduling for Low-latency Communication: A Reinforcement Learning Approach. , 2020, , .		6
35	Machine-Learning-Based Cognitive Spectrum Assignment for 5G URLLC Applications. IEEE Network, 2019, 33, 30-35.	4.9	24
36	Design of 5G Dual-Antenna Passive Repeater Based On Machine Learning. , 2019, , .		7

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37	Capacity Enhancement for Hotspot Area in 5G Cellular Networks Using mmWave Aerial Base Station. IEEE Wireless Communications Letters, 2019, 8, 677-680.	3.2	15
38	Hopfield Neural Network-based Fault Location in Wireless and Optical Networks for Smart City IoT. , 2019, , .		4
39	Dynamic Mobility Load Balancing for 5G Small-Cell Networks Based on Utility Functions. IEEE Access, 2019, 7, 126998-127011.	2.6	35
40	Raptor Code based on punctured LDPC for Secrecy in Massive MiMo. , 2019, , .		6
41	Protocol Stack Perspective for Low Latency and Massive Connectivity in Future Cellular Networks. , 2019, , .		6
42	Compressed Sensing Based Traffic Prediction For 5G HetNet IoT Video Streaming. , 2019, , .		7
43	Joint Relay Selection and Load Balancing using D2D Communications for 5G HetNet MEC. , 2019, , .		9
44	UAV Network and IoT in the Sky for Future Smart Cities. IEEE Network, 2019, 33, 96-101.	4.9	121
45	Directional Graph-Based Energy Model for IoT Wireless Relay Systems. , 2019, , .		0
46	Enhanced Mobility Load Balancing Algorithm for 5G Small Cell Networks. , 2019, , .		7
47	Intelligent Resource Management Based on Reinforcement Learning for Ultra-Reliable and Low-Latency IoV Communication Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4157-4169.	3.9	120
48	Machine Learning Based Antenna Design for Physical Layer Security in Ambient Backscatter Communications. Wireless Communications and Mobile Computing, 2019, 2019, 1-10.	0.8	32
49	A Chain Based Signature Scheme for Uplink and Downlink Communications in AMI Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 85-99.	0.2	0
50	Opportunistic Multicast NOMA with Security Concerns in a 5G Massive MIMO System. IEEE Communications Magazine, 2018, 56, 91-95.	4.9	75
51	Performance analysis of spectrum sharingâ€based multiâ€hop decodeâ€andâ€forward over Nakagamiâ€m fading channels subject to additive white generalised Gaussian noise. IET Communications, 2018, 12, 415-424.	1.5	4
52	Hybrid Cryptography Algorithm with Precomputation for Advanced Metering Infrastructure Networks. Mobile Networks and Applications, 2018, 23, 982-993.	2.2	17
53	Passive CH Election Avoidance Protocol and CH Routing Protocol In VANET. , 2018, , .		1
54	Matching Game-Based User Association Approach for LTE-A Mobile Relay Systems. , 2018, , .		1

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55	Raptor code to mitigate Pilot contamination in Massive MiMo. Procedia Computer Science, 2018, 130, 310-317.	1.2	6
56	Emerging Technologies for 5G Radio Access Network: Architecture, Physical Layer Technologies, and MAC Layer Protocols. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	0.8	2
57	An Enhanced Control Overhead Messages Reduction Algorithm in VANET. , 2018, , .		2
58	On the Secrecy Capacity of 5G MmWave Small Cell Networks. IEEE Wireless Communications, 2018, 25, 47-51.	6.6	25
59	Opportunistic NOMA-Based Massive MIMO Precoding for 5G New Radio. Wireless Communications and Mobile Computing, 2018, 2018, 1-10.	0.8	2
60	Neighbor discovery and routing schemes for mobile ad-hoc networks with beamwidth adaptive smart antennas. Telecommunication Systems, 2017, 66, 17-27.	1.6	14
61	Scalable and Flexible Massive MIMO Precoding for 5G H-CRAN. IEEE Wireless Communications, 2017, 24, 46-52.	6.6	265
62	Analysis and enhancements of HELLO based link failure detection in wireless mesh networks. Telecommunication Systems, 2017, 66, 393-407.	1.6	6
63	Dynamic joint resource allocation and relay selection for 5G multi-hop relay systems. Telecommunication Systems, 2017, 66, 283-294.	1.6	11
64	Performance Improvement of Cluster-Based Routing Protocol in VANET. IEEE Access, 2017, 5, 15354-15371.	2.6	100
65	User Association-Based Joint Admission and Power Control for Heterogeneous Wireless Networks. Wireless Personal Communications, 2017, 96, 2485-2502.	1.8	2
66	Adaptive Transmission Rate Congestion Aware Routing Algorithm in Wireless Mesh Network. Wireless Personal Communications, 2017, 97, 4327-4342.	1.8	1
67	Mobility management for D4D in HetNet. , 2017, , .		2
68	Ensuring Reliable and Stable Communications in Mobile Ad-Hoc Networks. , 2017, , .		1
69	A Novel Opportunistic NOMA Scheme for 5G Massive MIMO Multicast Communications. , 2017, , .		6
70	An Intersection Dynamic VANET Routing Protocol for a Grid Scenario. , 2017, , .		6
71	Wireless power transfer in cooperative dual-hop relaying systems with beamforming over generalized fading channels. , 2017, , .		0
72	Relay Technology for 5G Networks and IoT Applications. Studies in Big Data, 2017, , 3-26.	0.8	15

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73	A Hybrid Encryption Scheme for Advanced Metering Infrastructure Networks. , 2017, , .		3
74	SDN Controlled mmWave Massive MIMO Hybrid Precoding for 5G Heterogeneous Mobile Systems. Mobile Information Systems, 2016, 2016, 1-10.	0.4	12
75	A unified approach to analyze the average bit error probability in generalized fading channels with additive generalized Gaussian noise. , 2016, , .		1
76	Joint path relay selection in 5G multi-hop relay networks. , 2016, , .		2
77	Traffic Prediction for Reliable and Resilient Video Communications Over Multi-Location WMNs. Journal of Network and Systems Management, 2016, 24, 516-533.	3.3	4
78	Hello-Based Link Failure Detection Analysis in Wireless Mesh Networks. , 2016, , .		4
79	A Cluster-Based Life-Time Routing Protocol in VANET. , 2016, , .		12
80	Fountain Coded Cooperative Communications for LTE-A Connected Heterogeneous M2M Network. IEEE Access, 2016, 4, 5280-5292.	2.6	139
81	Dual-Backhaul Links in LTE - A Mobile Relay System for High-Speed Railways. , 2016, , .		6
82	Intelligent SDN and NFV for 5G HetNet Dynamics. Springer Briefs in Electrical and Computer Engineering, 2016, , 15-40.	0.3	1
83	5G Heterogeneous Networks. Springer Briefs in Electrical and Computer Engineering, 2016, , .	0.3	8
84	Joint Network Channel Fountain Schemes for Machine-Type Communications Over LTE-Advanced. IEEE Internet of Things Journal, 2016, 3, 418-427.	5.5	8
85	Enhanced Control for Adaptive Resource Reservation of Guaranteed Services in LTE Networks. IEEE Internet of Things Journal, 2016, 3, 179-189.	5.5	7
86	Joint Routing and Admission Control in Wireless Mesh Network. International Journal of Communications, Network and System Sciences, 2016, 09, 311-325.	0.4	2
87	Adaptive SON and Smart LPN for 5G Heterogeneous Networks. Springer Briefs in Electrical and Computer Engineering, 2016, , 1-14.	0.3	0
88	SONET over Ethernet. , 2015, , .		3
89	Resource Allocation Framework in 5G Multi-Hop Relay System. , 2015, , .		7
90	Editorial for â€œSON and Automatic Configuration/Optimization in LTE-A Networks: Challenges and Practical Solutionsâ€. Mobile Networks and Applications, 2015, 20, 411-412.	2.2	0

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91	Integrating network function virtualization with SDR and SDN for 4G/5G networks. IEEE Network, 2015, 29, 54-59.	4.9	338
92	Impact of Directional Antennas on Link Probability and Connectivity in Wireless Ad-Hoc Networks. , 2015, , .		2
93	On the Average Bit Error Rate and Average Channel Capacity over Generalized Fading Channels. , 2015, , .		2
94	Multihoming admission and mobility management in wireless mesh network. , 2015, , .		2
95	Secure Multipath Routing Algorithm for Device-to-Device Communications for Public Safety over LTE Heterogeneous Networks. , 2015, , .		6
96	Traffic aware power allocation and frequency reuse for green LTE-A heterogeneous networks. , 2015, , .		3
97	User Association for HetNet Small Cell Networks. , 2015, , .		6
98	Adaptive SON and Cognitive Smart LPN for 5G Heterogeneous Networks. Mobile Networks and Applications, 2015, 20, 745-755.	2.2	21
99	Predictive Congestion Avoidance in Wireless Mesh Network. , 2015, , .		3
100	Game theory based multi-tier spectrum sharing for LTE-A heterogeneous networks. , 2015, , .		4
101	SONET over RPR. , 2015, , .		1
102	Efficient Priority Access to the Shared Commercial Radio with Offloading for Public Safety in LTE Heterogeneous Networks. Journal of Computer Networks and Communications, 2014, 2014, 1-15.	1.2	9
103	Virtual Private Network over Wireless Mesh Networks. , 2014, , .		1
104	RPR over Ethernet. , 2014, , .		2
105	Courteous Priority Access to the Shared Commercial Radio for Public Safety in LTE Heterogeneous Networks. , 2014, , .		4
106	Stationary Transformation of Video Traffic in LTE Networks. , 2014, , .		0
107	Inter-cell handoff performance improvement in LTE-a multi-hop relay networks. , 2014, , .		10
108	Multipath routing algorithm for device-to-device communications for public safety over LTE Heterogeneous Networks. , 2014, , .		18

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109	Joint network channel fountain scheme for reliable communication in wireless networks. , 2014, , .		4
110	Resource Allocation Framework in 5G Multi-Hop Relay System. , 2014, , .		0
111	Efficient and Reliable Communication in Wireless Relay Networks Using Joint Network Channel Fountain. Journal of Communications, 2014, 9, 597-606.	1.3	2
112	CAM: Courteous bandwidth constraints allocation model. , 2013, , .		4
113	Performance analysis of dual-hop systems with fixed-gain relays over generalized η-μ fading channels. , 2012, , .		5
114	Towards reliable cooperative communications in clustered ad hoc networks. , 2012, , .		8
115	Performance Enhancement of Routing Protocols in Mobile Ad hoc Networks. , 2011, , 50-61.		1
116	Multipath routing over wireless mesh networks for multiple description video transmission. IEEE Journal on Selected Areas in Communications, 2010, 28, 321-331.	9.7	25
117	Multiple description video multicast in MANETs. , 2010, , .		2
118	Multicast Routing Protocols in Mobile Ad Hoc Networks: A Comparative Survey and Taxonomy. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	57
119	Video multicast based multiple description coding and multi-paths in wireless ad hoc networks. , 2009, , .		2
120	Multiple Description Coding Based Video Multicast over Heterogeneous Wireless Ad Hoc Networks. , 2009, , .		4
121	Improving Delay and Jitter Performance in Wireless Mesh Networks for Mobile IPTV Services. IEEE Transactions on Broadcasting, 2009, 55, 642-651.	2.5	11
122	Mobile-Agent-Based Handoff in Wireless Mesh Networks: Architecture and Call Admission Control. IEEE Transactions on Vehicular Technology, 2009, 58, 4565-4575.	3.9	8
123	Multiuser detection based MAC design for Ad Hoc networks. IEEE Transactions on Wireless Communications, 2009, 8, 1836-1846.	6.1	17
124	Multipath routing for multiple description video communications over wireless mesh networks. IEEE Wireless Communications, 2009, 16, 24-30.	6.6	6
125	Supporting Video Multicast in Wireless Ad Hoc Networks Using Multiple Paths and Multiple Description Coding. , 2009, , .		0
126	An Efficient Video Multicast Routing Protocol for Heterogeneous Destinations in MANETs. , 2009, , .		3

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127	Performance Enhancement of Routing Protocols in Mobile Ad hoc Networks. International Journal of Mobile Computing and Multimedia Communications, 2009, 1, 27-39.	0.4	0
128	Multilayered Video Multiple Trees Multicast Algorithms for Heterogeneous Wireless Ad Hoc Networks. , 2008, , .		2
129	A new approach for the construction of multiple multicast trees using multiple description video for wireless ad hoc networks. , 2008, , .		3
130	Call Admission Control for Mobile Agent Based Handoff in Wireless Mesh Networks. , 2008, , .		6
131	Receiver Initiated MAC Design for Ad Hoc Networks Based on Multiuser Detection. , 2008, , .		5
132	Performance Evaluation of A Multiuser Detection Based MAC Design for Ad Hoc Networks. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	5
133	Multiuser detection based MAC design for ad hoc networks. , 2007, , .		1
134	Dynamic Bandwidth Allocation in SIP based MPLS. International Conference on Advanced Networking and Applications, 2007, , .	0.0	3
135	A Flexible Weight Based Clustering Algorithm in Mobile Ad hoc Networks. , 2006, , .		15
136	Construction and Maintenance of Backbone for Routing Protocols Enhancement in Mobile Ad Hoc Networks. , 2006, , .		4
137	An efficient management algorithm for clustering in mobile ad hoc network. , 2006, , .		12
138	Optimizing the performance of tree-based reliable multicast. Computers and Electrical Engineering, 2006, 32, 394-410.	3.0	0
139	NIS01-3: Key Management for Pyramidal Security Model of Multicast Communication in Mobile Ad Hoc Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
140	Integrating traffic aggregation mechanism into SIP based IP telephony over MPLS network. , 2005, , .		1
141	Virtual backbone based on MCDS for topology control in wireless ad hoc networks. , 2005, , .		12
142	Performance Evaluation of Dynamic Tree-Based Reliable Multicast. IEICE Transactions on Communications, 2005, E88-B, 2035-2045.	0.4	0
143	Packet loss probability for DiffServ over IP and MPLS reliable homogeneous multicast networks. Information Processing Letters, 2004, 90, 73-80.	0.4	2
144	Interleaved FEC/ARQ coding for QoS multicast over the internet. Canadian Journal of Electrical and Computer Engineering, 2004, 29, 159-166.	1.5	9

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145	TMN and Telecommunication Networks Testing. , 1998, , 17-33.		0
146	A novel congestion control in hybrid ATM/TDMA networks. Computers and Electrical Engineering, 1995, 21, 397-416.	3.0	4
147	Analysis of A movable boundary access technique for A multiservice multibeam satellite system. International Journal of Satellite Communications and Networking, 1994, 12, 299-312.	0.6	8
148	Packet loss probability for DiffServ over heterogeneous MPLS multicast networks: a simulation study. , 0, , .		0
149	Router buffering and caching techniques for multisession reliable multicast. , 0, , .		1
150	Performance evaluation of tree-based reliable multicast. , 0, , .		7
151	Average multicast delay for FEC/DIFFSERV over IP and MPLS homogeneous networks. , 0, , .		0
152	Topological effect on optimal partitioning of multicast trees. , 0, , .		0
153	A practical proactive hybrid FEC/ARQ technique for reliable multi-session multicast communication. , 0, , .		4
154	Bandwidth Fragmentation Avoided QoS Multicast Routing by Employing Admission Control. , 0, , .		3
155	A distributed approach for computng the minimum connected dominating set in ad hoc networks. , 0, , .		4
156	A hybrid error control scheme for MANET reliable multicast. , 0, , .		0
157	Traffic Aggregation Based SIP over MPLS Network Architecture. , 0, , .		7
158	Mobility prediction aided dynamic multicast routing in MANET. , 0, , .		3
159	Achieve load balancing and avoid bandwidth fragmentation in MANET QoS routing. , 0, , .		1
160	Throughput Analysis Based on One Hop Transmission in Wireless Ad Hoc Networks. , 0, , .		0