Anke Schmeink

List of Publications by Year
in descending order

85 papers	1,260 citations	471509 17 h-index	434195 31 g-index
86 all docs	86 docs citations	86 times ranked	1142 citing authors

#	Article	IF	Citations
1	Deep Reinforcement Learning based Resource Allocation in Low Latency Edge Computing Networks. , 2018, , .		111
2	Blocklength-Limited Performance of Relaying under Quasi-Static Rayleigh Channels. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	98
3	Optimal 1D Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer. IEEE Transactions on Communications, 2019, 67, 5674-5688.	7.8	92
4	SWIPT-Enabled Relaying in IoT Networks Operating With Finite Blocklength Codes. IEEE Journal on Selected Areas in Communications, 2019, 37, 74-88.	14.0	90
5	On the Capacity of Relaying With Finite Blocklength. IEEE Transactions on Vehicular Technology, 2016, 65, 1790-1794.	6.3	73
6	Relaying-Enabled Ultra-Reliable Low-Latency Communications in 5G. IEEE Network, 2018, 32, 62-68.	6.9	67
7	Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Wireless Communications, 2021, 20, 1105-1121.	9.2	58
8	Optimal Power Allocation for QoS-Constrained Downlink Multi-User Networks in the Finite Blocklength Regime. IEEE Transactions on Wireless Communications, 2018, 17, 5827-5840.	9.2	49
9	Development and validation of a reinforcement learning algorithm to dynamically optimize mechanical ventilation in critical care. Npj Digital Medicine, 2021, 4, 32.	10.9	47
10	Closed-Form Symbol Error Rate Expressions for Non-Orthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 6775-6789.	6.3	44
11	On the Performance Advantage of Relaying Under the Finite Blocklength Regime. IEEE Communications Letters, 2015, 19, 779-782.	4.1	36
12	Joint Design of UAV Trajectory and Directional Antenna Orientation in UAV-Enabled Wireless Power Transfer Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3081-3096.	14.0	34
13	QoS-Constrained Energy Efficiency of Cooperative ARQ in Multiple DF Relay Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 848-859.	6.3	27
14	Efficient transmission schemes for low-latency networks: NOMA vs. relaying. , 2017, , .		23
15	Optimal Scheduling of Reliability-Constrained Relaying System Under Outdated CSI in the Finite Blocklength Regime. IEEE Transactions on Vehicular Technology, 2018, 67, 6146-6155.	6.3	23
16	Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. IEEE Internet of Things Journal, 2021, 8, 15126-15139.	8.7	23
17	Optimality of Dual Methods for Discrete Multiuser Multicarrier Resource Allocation Problems. IEEE Transactions on Wireless Communications, 2012, 11, 3810-3817.	9.2	21
18	Throughput Analysis of Low-Latency IoT Systems With QoS Constraints and Finite Blocklength Codes. IEEE Transactions on Vehicular Technology, 2020, 69, 3093-3104.	6.3	21

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19	Sustainable Wireless Sensor Networks With UAV-Enabled Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2021, 70, 8050-8064.	6.3	19
20	A robust optimisation model and cutting planes for the planning of energy-efficient wireless networks. Computers and Operations Research, 2013, 40, 80-90.	4.0	17
21	A Fast Converging Channel Estimation Algorithm for Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2018, 66, 3169-3184.	5.3	15
22	An RFID model for improving workers' safety at the seaport in transitional environment. Transport, 2018, 33, 353-363.	1.2	15
23	Multi-Relay-Assisted Low-Latency High-Reliability Communications With Best Single Relay Selection. IEEE Transactions on Vehicular Technology, 2019, 68, 7630-7642.	6.3	15
24	On the Convex Properties of Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 5672-5676.	6.3	13
25	Reliability-Optimal Offloading in Low-Latency Edge Computing Networks: Analytical and Reinforcement Learning Based Designs. IEEE Transactions on Vehicular Technology, 2021, 70, 6058-6072.	6.3	12
26	Novel Optimal Trajectory Design in UAV-Assisted Networks: A Mechanical Equivalence-Based Strategy. IEEE Journal on Selected Areas in Communications, 2021, 39, 3524-3541.	14.0	11
27	Robust Channel Modeling of 2.4 GHz and 5 GHz Indoor Measurements: Empirical, Ray Tracing, and Artificial Neural Network Models. IEEE Transactions on Antennas and Propagation, 2022, 70, 559-572.	5.1	11
28	Energy Minimization of Mobile Edge Computing Networks with Finite Retransmissions in the Finite Blocklength Regime. , 2019, , .		10
29	Proportional QoS adjustment for achieving feasible power allocation in CDMA systems. IEEE Transactions on Communications, 2008, 56, 254-259.	7.8	9
30	Construction of Polar Codes Exploiting Channel Transformation Structure. IEEE Communications Letters, 2015, 19, 2058-2061.	4.1	8
31	Heparan Sulfate Induces Necroptosis in Murine Cardiomyocytes: A Medical-In silico Approach Combining In vitro Experiments and Machine Learning. Frontiers in Immunology, 2018, 9, 393.	4.8	8
32	Reliability-Optimal Offloading in Multi-Server Edge Computing Networks with Transmissions Carried by Finite Blocklength Codes. , 2019, , .		8
33	A Deep Learning Approach for Managing Medical Consumable Materials in Intensive Care Units via Convolutional Neural Networks: Technical Proof-of-Concept Study. JMIR Medical Informatics, 2019, 7, e14806.	2.6	8
34	Multi-Device Low-Latency IoT Networks With Blind Retransmissions in the Finite Blocklength Regime. IEEE Transactions on Vehicular Technology, 2021, 70, 12782-12795.	6.3	8
35	Joint Linear Receiver Design and Power Allocation Using Alternating Optimization Algorithms for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 4129-4141.	6.3	7
36	Delay-Constrained Communication in Edge Computing Networks. , 2018, , .		7

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37	Optimal Resource Allocation in Ground Wireless Networks Supporting Unmanned Aerial Vehicle Transmissions. IEEE Transactions on Vehicular Technology, 2020, 69, 8972-8984.	6.3	7
38	Average Age-of-Information Minimization in EH-enabled Low-Latency IoT Networks. , 2021, , .		6
39	The multi-band robust knapsack problemâ€"A dynamic programming approach. Discrete Optimization, 2015, 18, 123-149.	0.9	5
40	On Intelligent Use of ICT in Some Maritime Business Organizations. Montenegrin Journal of Economics, 2017, 13, 163-173.	1.3	5
41	ON DEPLOYING VEHICULAR COMMUNICATION AT THE DEVELOPING SEAPORT AND RELATED INNOVATION SUCCESS IMPEDIMENTS. Transport, 2019, 34, 126-134.	1.2	5
42	Latency-Critical Downlink Multiple Access: A Hybrid Approach and Reliability Maximization. IEEE Transactions on Wireless Communications, 2022, 21, 9261-9275.	9.2	5
43	Convexity Analysis of Nonlinear Wireless Power Transfer With Multiple RF Sources. IEEE Transactions on Vehicular Technology, 2022, 71, 11311-11316.	6.3	5
44	Accurate optimization models for interference constrained bandwidth allocation in cellular networks. Computers and Operations Research, 2019, 101, 1-12.	4.0	4
45	Online Offline Learning for Sound-Based Indoor Localization Using Low-Cost Hardware. IEEE Access, 2019, 7, 155088-155106.	4.2	4
46	Efficient Implementation of Density Evolution for Punctured Polar Codes. IEEE Access, 2019, 7, 105909-105921.	4.2	4
47	Full-Duplex Relay in High-Reliability Low-latency Networks Operating with Finite Blocklength Codes. , 2019, , .		4
48	Robust Design for UAV-Enabled Multiuser Relaying System With SWIPT. IEEE Transactions on Green Communications and Networking, 2021, 5, 1293-1305.	5.5	4
49	Joint Power and Data Allocation in Multi-Carrier Full-Duplex Relaying Networks Operating With Finite Blocklength Codes. IEEE Transactions on Wireless Communications, 2022, 21, 1513-1528.	9.2	4
50	Data Freshness Optimization in Relaying Network Operating with Finite Blocklength Codes. , 2021, , .		4
51	On iterative decoding of polar codes: Schedule-dependent performance and constructions. , 2017, , .		3
52	Rateless Codes Based on Punctured Polar Codes. , 2018, , .		3
53	Optimal power allocation for QoS-constrained downlink networks with finite blocklength codes. , 2018, , .		3
54	The Safety Analysis: Disagreement of Wireless Communication-Based Consensus. IEEE Wireless Communications Letters, 2018, 7, 998-1001.	5.0	3

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55	Physical Layer Spoofing Against Eavesdropping Attacks. , 2019, , .		3
56	A Seysen's algorithm–based incremental lattice reduction. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3596.	3.9	3
57	3-D Energy Optimal Receiver Placement With Constraints on the LOS Delay and Angle. IEEE Transactions on Wireless Communications, 2019, 18, 2156-2169.	9.2	3
58	Energy-Efficient Joint Association and Precoding in Ultra-Dense C-RAN. IEEE Transactions on Vehicular Technology, 2021, 70, 2862-2866.	6.3	3
59	Simultaneous Wireless Information and Power Transfer in Low-Latency Relaying Networks with Nonlinear Energy Harvesting. , 2021, , .		3
60	Radio-Map-Based UAV Placement Design for UAV-Assisted Relaying Networks. , 2021, , .		3
61	Consensus Analysis of Wireless Multi-Agent Systems Over Fading Channels. IEEE Wireless Communications Letters, 2021, 10, 1528-1531.	5.0	3
62	Hierarchical generalized Cantor set modulation. , 2011, , .		2
63	Finite blocklength performance of a multi-relay network with best single relay selection. , 2017, , .		2
64	Throughput Maximization of Low-Latency Communication with Imperfect CSI in Finite Blocklength Regime. , 2019, , .		2
65	Multi-Device Low-Latency Internet of Things Networks with Blind Retransmissions in the Finite Blocklength Regime. , 2020, , .		2
66	Incremental Parameter Estimation of Stochastic State-Based Models. , 2021, , .		2
67	UAV Trajectory Design on Completion Time Minimization of WPT Task in UAV-Enabled Multi-User Network. , 2022, , .		2
68	Speeding up column generation for robust wireless network planning. EURO Journal on Computational Optimization, 2013, 1, 253-281.	2.4	1
69	On the Reed-Muller rule under channel polarization. , 2016, , .		1
70	Simultaneous wireless information and power transfer in relay networks with finite blocklength codes. , 2017, , .		1
71	A fast energy-aware multi-target detection technique using binary wireless sensors. , 2017, , .		1
72	Optimal Power Allocation for Amplify and Forward Relaying with Finite Blocklength Codes and QoS Constraints. , 2018, , .		1

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73	Network Planning for Indoor Joint LTE and WLAN Networks. , 2019, , .		1
74	Joint User Association and Robust Beamforming Optimization for C-RANs with Wireless Fronthauls. , 2019, , .		1
75	Likelihood-Based Adaptive Learning in Stochastic State-Based Models. IEEE Signal Processing Letters, 2019, 26, 1031-1035.	3.6	1
76	Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. IEEE Internet of Things Journal, 2021, 8, 3053-3056.	8.7	1
77	Relaying-Assisted Multiuser Networks in FBL Regime: Achievable Reliability-Constrained Throughput. , 2021, , .		1
78	Channel Capacity in the Finite Blocklength Regime for Massive MIMO with Selected Multi-Streams (Invited Paper). , 2022, , .		1
79	A theoretical framework for capacity-achieving multi-user waterfilling in OFDMA. , 2010, , .		0
80	Non-Asymptotic Bounds on the Performance of Dual Methods for Resource Allocation Problems. IEEE Transactions on Wireless Communications, 2014, 13, 3430-3441.	9.2	0
81	Convolutive Blind Source Separation with Independent Vector Analysis and Beamforming. , 2019, , .		0
82	On the Optimal Precoding for MISO-WSN: One Time Slot Detection of Multiple Binary Data on the Same Frequency Band. IEEE Transactions on Wireless Communications, 2021, 20, 997-1010.	9.2	0
83	Joint Design of UAV Trajectory and Directional Antenna Orientation in UAV-Enabled WPT Networks. , 2021, , .		0
84	Density Evolution Based Multi-Level Polar Coded Modulation. , 2021, , .		0
85	Time-Energy-Constrained Closed-Loop FBL Communication for Dependable MEC. , 2021, , .		0