

Maziar Nekovee

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,644
citations

257450

24
h-index

161849

54
g-index

113
all docs

113
docs citations

113
times ranked

3046
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation from 5G for Verticals Towards a 6G-enabled Internet of Verticals. , 2022, , .		9
2	Towards 6G: Spectrally efficient joint radar and communication with radio frequency selection, interference and hardware impairments (invited paper). IET Signal Processing, 2022, 16, 851-863.	1.5	8
3	A Concurrent Training Method of Deep-Learning Autoencoders in a Multi-user Interference Channel. , 2021, , .		0
4	The Design and Analysis of Electronically Reconfigurable Liquid Crystal-Based Reflectarray Metasurface for 6G Beamforming, Beamsteering, and Beamsplitting. IEEE Access, 2021, 9, 155564-155575.	4.2	22
5	Deep Learning-Based Autoencoder for m-User Wireless Interference Channel Physical Layer Design. IEEE Access, 2020, 8, 174679-174691.	4.2	25
6	Secure Non-Public Health Enterprise Networks. , 2020, , .		4
7	Coexistence of 5G With Satellite Services in the Millimeter-Wave Band. IEEE Access, 2020, 8, 163618-163636.	4.2	22
8	Edge on Wheels With OMNIBUS Networking for 6G Technology. IEEE Access, 2020, 8, 215928-215942.	4.2	13
9	Towards AI-enabled Microservice Architecture for Network Function Virtualization. , 2020, , .		9
10	Towards explainable artificial intelligence for network function virtualization. , 2020, , .		8
11	An Adaptive Deep Learning Algorithm Based Autoencoder for Interference Channels. Lecture Notes in Computer Science, 2020, , 342-354.	1.3	2
12	Joint statistics of urban clutter loss and building entry loss at 3.5 GHz and 27 GHz - from measurement to modelling. , 2020, , .		3
13	Spectrum-Sharing Method for Co-Existence Between 5G OFDM-Based System and Fixed Service. IEEE Access, 2019, 7, 77460-77475.	4.2	18
14	Opportunities and Enabling Technologies for 5G and Beyond-5G Spectrum Sharing. , 2019, , 1971-1985.		0
15	Modeling the impact of organization structure and whistle-blowers on intra-organizational corruption contagion. Physica A: Statistical Mechanics and Its Applications, 2019, 522, 339-349.	2.6	5
16	Automatic Configuration of OpenFlow in Wireless Mobile Ad hoc Networks. , 2019, , .		5
17	Electronically Reconfigurable Binary Phase Liquid Crystal Reflectarray Metasurface at 108 GHz. , 2019, , .		2
18	Demo Abstract: A demonstration of automatic configuration of OpenFlow in wireless ad hoc networks. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Independent and joint statistics of clutter loss and building entry loss " initial measurements. , 2018, , .		5
20	Intelligent 5G Vehicular Networks: An Integration of DSRC and mmWave Communications. , 2018, , .		21
21	Single-cell and multi-cell performance analysis of OFDM index modulation. IET Communications, 2017, 11, 1021-1027.	2.2	1
22	Contention-based learning MAC protocol for broadcast vehicle-to-vehicle communication. , 2017, , .		22
23	Interference management via space and frequency domain resource partitioning. , 2017, , .		0
24	Worst-Case Access Delay of HomePlug Green PHY (HPGP) for Delay-Critical In-Vehicle Applications. , 2017, , .		0
25	Self-Organized Beam Scheduling as an Enabler for Coexistence in 5G Unlicensed Bands. IEICE Transactions on Communications, 2017, E100.B, 1181-1189.	0.7	11
26	Effective decentralised segmentation-based scheme for broadcast in large-scale dense VANETs. , 2016, , .		2
27	Distributed beam scheduling for multi-RAT coexistence in mm-wave 5G networks. , 2016, , .		11
28	Millimeter-Wave Propagation: Characterization and modeling toward fifth-generation systems. [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2016, 58, 115-127.	1.4	86
29	Quantifying data rate and bandwidth requirements for immersive 5G experience. , 2016, , .		10
30	Coordinated initial access in millimetre wave standalone networks. , 2016, , .		1
31	Frequency and quadrature amplitude modulation for 5G networks. , 2016, , .		5
32	Effective Decentralised segmentation-based scheme for broadcast in large-scale dense VANETs. , 2016, , .		1
33	Non-orthogonal FQAM for multiple access in the uplink of 5G wireless networks. , 2016, , .		3
34	Transport protocols behaviour study in evolving mobile networks. , 2016, , .		2
35	Intra-Cluster Characteristics of 28 GHz Wireless Channel in Urban Micro Street Canyon. , 2016, , .		12
36	Investigating Spectrum Sharing between 5G Millimeter Wave Networks and Fixed Satellite Systems. , 2015, , .		37

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37	A cooperative scheduling algorithm for the coexistence of fixed satellite services and 5G cellular network. , 2015, , .		30
38	A study on the coexistence of fixed satellite service and cellular networks in a mmWave scenario. , 2015, , .		49
39	Challenges and Opportunities of mm-Wave Communication in 5G Networks. , 2014, , .		45
40	Special issue on cognitive networking. Journal of Communications and Networks, 2014, 16, 101-109.	2.6	0
41	Guest Editorial: Smart Grid Communications Systems. IEEE Systems Journal, 2014, 8, 417-421.	4.6	6
42	Automatic trust calculation for service-oriented systems. IET Software, 2014, 8, 134-142.	2.1	1
43	mmWave-Based Mobile Access for 5G: Key Challenges and Projected Standards and Regulatory Roadmap. , 2014, , .		0
44	An Iterative and Truthful MultiUnit Auction Scheme for Coordinated Sharing of Spectrum White Spaces. Performance Evaluation Review, 2014, 42, 8-11.	0.6	6
45	Interference-aware Power Coordination Game for ISM Bands. , 2014, , .		1
46	Autonomous spectrum sharing in heterogeneous White Space networks. , 2013, , .		1
47	Rule-based dynamic TV white space spectrum sharing services composition framework. Physical Communication, 2013, 9, 231-242.	2.1	2
48	Rear-End Collision: Causes and Avoidance Techniques. , 2013, , 99-119.		9
49	An Automatic Trust Calculation Based on the Improved Kalman Filter Detection Algorithm. IFIP Advances in Information and Communication Technology, 2013, , 208-222.	0.7	0
50	Is wireless broadband provision to rural communities in TV whitespaces viable? A UK case study and analysis. , 2012, , .		7
51	Worldwide trends in regulation of secondary access to white spaces using cognitive radio. IEEE Wireless Communications, 2012, 19, 32-40.	9.0	51
52	Autonomous spectrum sharing in heterogeneous White Space networks. , 2012, , .		1
53	Cognitive machine-to-machine communications: visions and potentials for the smart grid. IEEE Network, 2012, 26, 6-13.	6.9	346
54	TV White Space Channel Allocation with Simulated Annealing as Meta Algorithm. , 2012, , .		9

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55	Current Trends in Regulation of Secondary Access to TV White Spaces Using Cognitive Radio. , 2011, , .		9
56	Universality of Performance Parameters in Vehicular ad hoc Networks. IEEE Communications Letters, 2011, 15, 947-949.	4.1	3
57	Wireless service provision in TV white space with cognitive radio technology: A telecom operator's perspective and experience. , 2011, 49, 64-73.		123
58	Spread of information and infection on finite random networks. Physical Review E, 2011, 83, 046128.	2.1	28
59	Reducing Congestion in Obstructed Highways with Traffic Data Dissemination Using Ad hoc Vehicular Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	3
60	Vehicular Ad Hoc Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	0
61	Simulations of large-scale WiFi-based wireless networks: Interdisciplinary challenges and applications. Future Generation Computer Systems, 2010, 26, 514-520.	7.5	16
62	Stochastic epidemics and rumours on finite random networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 561-576.	2.6	86
63	When radio meets software. , 2010, , 1-12.		0
64	A Survey of Cognitive Radio Access to TV White Spaces. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-11.	0.6	83
65	Mechanism Design for Cognitive Radio Networks. , 2010, , .		1
66	Cognitive Radio Access to TV White Spaces: Spectrum Opportunities, Commercial Applications and Remaining Technology Challenges. , 2010, , .		79
67	Cognitive radio-based urban wireless broadband in unused TV bands. , 2010, , .		1
68	Parameter exploration in parallel for dynamic vehicular network efficiency. , 2009, , .		2
69	Quantifying Performance Requirements of Vehicle-to-Vehicle Communication Protocols for Rear-End Collision Avoidance. , 2009, , .		31
70	SYNCHRONIZATION IN RANDOM GEOMETRIC GRAPHS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 687-693.	1.7	25
71	Quantifying the TV White Spaces Spectrum Opportunity for Cognitive Radio Access. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 46-57.	0.3	4
72	Epidemic algorithms for reliable and efficient information dissemination in vehicular ad hoc networks. IET Intelligent Transport Systems, 2009, 3, 104.	3.0	34

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73	Congestion Reduction Using Ad-Hoc Message Dissemination in Vehicular Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 128-139.	0.3	7
74	A survey of cognitive radio access to TV White Spaces. , 2009, , .		34
75	Guest Editorial: Special Issue on Cognitive Radio Oriented Wireless Networks and Communications. Mobile Networks and Applications, 2008, 13, 411-415.	3.3	3
76	The opportunistic transmission of wireless worms between mobile devices. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6837-6844.	2.6	33
77	Impact of Cognitive Radio on Future Management of Spectrum. , 2008, , .		19
78	Dynamics of gossip-like information dissemination in complex computer networks. International Journal of Computer Mathematics, 2008, 85, 1165-1173.	1.8	3
79	Epidemic Spreading of Computer Worms in Fixed Wireless Networks. Lecture Notes in Computer Science, 2008, , 105-115.	1.3	2
80	Worm epidemics in wireless ad hoc networks. New Journal of Physics, 2007, 9, 189-189.	2.9	79
81	Reliable and Efficient Information Dissemination in Intermittently Connected Vehicular Adhoc Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	46
82	Dynamic Spectrum: Going Full Circle. , 2007, , .		5
83	Theory of rumour spreading in complex social networks. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 457-470.	2.6	591
84	Future management of spectrum. BT Technology Journal, 2007, 25, 52-63.	0.5	22
85	Dynamic Spectrum Access with Cognitive Radios: Future Architectures and Research Challenges. , 2006, , .		13
86	Dynamic spectrum access "concepts and future architectures. BT Technology Journal, 2006, 24, 111-116.	0.5	38
87	Wi-Fi based broadband wireless access for users on the road. BT Technology Journal, 2006, 24, 123-129.	0.5	18
88	Dynamics of rumor spreading in complex networks. Physical Review E, 2004, 69, 066130.	2.1	682
89	Simulations of amphiphilic fluids using mesoscale lattice-Boltzmann and lattice-gas methods. Computer Physics Communications, 2003, 153, 340-358.	7.5	36
90	Quantum Monte Carlo studies of density functional theory. Mathematics and Computers in Simulation, 2003, 62, 463-470.	4.4	2

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91	Quantum Monte Carlo investigations of density functional theory of the strongly inhomogeneous electron gas. <i>Physical Review B</i> , 2003, 68, .	3.2	20
92	Three-dimensional lattice-Boltzmann simulations of critical spinodal decomposition in binary immiscible fluids. <i>Physical Review E</i> , 2003, 67, 046304.	2.1	41
93	An Adaptive Method for Dynamic Audience Size Estimation in Multicast. <i>Lecture Notes in Computer Science</i> , 2003, , 23-33.	1.3	3
94	An inhomogeneous and anisotropic Jastrow function for non-uniform many-electron systems. <i>Computational Materials Science</i> , 2001, 22, 129-136.	3.0	1
95	Lattice-Boltzmann Simulations of Self-Assembly of a Binary Water-Surfactant System into Ordered Bicontinuous Cubic and Lamellar Phases. <i>Journal of the American Chemical Society</i> , 2001, 123, 12380-12382.	13.7	23
96	Recent progress in the computational many-body theory of metal surfaces. <i>Computer Physics Communications</i> , 2001, 137, 123-142.	7.5	29
97	Quantum Monte Carlo Analysis of Exchange and Correlation in the Strongly Inhomogeneous Electron Gas. <i>Physical Review Letters</i> , 2001, 87, 036401.	7.8	38
98	A PARALLEL LATTICE-BOLTZMANN METHOD FOR LARGE SCALE SIMULATIONS OF COMPLEX FLUIDS. , 2001, , .		0
99	Lattice-Boltzmann model for interacting amphiphilic fluids. <i>Physical Review E</i> , 2000, 62, 8282-8294.	2.1	71
100	A ternary lattice Boltzmann model for amphiphilic fluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 2043-2057.	2.1	78
101	The effect of electric fields on Ag(001). <i>Journal of Physics Condensed Matter</i> , 1998, 10, 7777-7792.	1.8	10
102	An accelerated Metropolis method. <i>Journal of Chemical Physics</i> , 1998, 109, 2630-2634.	3.0	15
103	Surface Screening Charge and Effective Charge. <i>Physical Review Letters</i> , 1998, 80, 3571-3574.	7.8	8
104	A Quantum Monte Carlo Approach to the Adiabatic Connection Method. <i>Advances in Quantum Chemistry</i> , 1998, 33, 189-207.	0.8	10
105	Theory of image states at magnetic surfaces. <i>Progress in Surface Science</i> , 1995, 50, 149-158.	8.3	15
106	Magnetic splitting of image states at Fe(110). <i>Physical Review Letters</i> , 1993, 70, 3099-3102.	7.8	46
107	Full-potential embedding for surfaces and interfaces. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 1475-1488.	1.8	32
108	Failure of extended-moment-equation approaches to describe ballistic transport in submicrometer structures. <i>Physical Review B</i> , 1992, 45, 6643-6651.	3.2	52

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109	Threshold Behaviour of Surface Density of States at the Vacuum Level. Europhysics Letters, 1992, 19, 535-540.	2.0	28
110	Exact and moment equation modeling of electron transport in submicron structures. Applied Physics Letters, 1991, 59, 1743-1745.	3.3	9