

# Mehran Abolhasan

## List of Publications by Year in descending order

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Version: 2024-02-01

150  
papers

5,336  
citations

257450

24  
h-index

95266

68  
g-index

151  
all docs

151  
docs citations

151  
times ranked

5079  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Body Area Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 1658-1686.	39.4	1,178
2	A review of routing protocols for mobile ad hoc networks. Ad Hoc Networks, 2004, 2, 1-22.	5.5	988
3	A Comparative Survey of VANET Clustering Techniques. IEEE Communications Surveys and Tutorials, 2017, 19, 657-681.	39.4	361
4	Blockchain's adoption in IoT: The challenges, and a way forward. Journal of Network and Computer Applications, 2019, 125, 251-279.	9.1	330
5	Anatomy of Threats to the Internet of Things. IEEE Communications Surveys and Tutorials, 2019, 21, 1636-1675.	39.4	224
6	PrivySharing: A blockchain-based framework for privacy-preserving and secure data sharing in smart cities. Computers and Security, 2020, 88, 101653.	6.0	184
7	Enabling Technologies for Ultra-Reliable and Low Latency Communications: From PHY and MAC Layer Perspectives. IEEE Communications Surveys and Tutorials, 2019, 21, 2488-2524.	39.4	166
8	Enabling interference-aware and energy-efficient coexistence of multiple wireless body area networks with unknown dynamics. IEEE Access, 2016, 4, 2935-2951.	4.2	153
9	5G next generation VANETs using SDN and fog computing framework. , 2018, , .		87
10	Software-defined wireless networking: centralized, distributed, or hybrid?. IEEE Network, 2015, 29, 32-38.	6.9	79
11	Wireless Power Transfer and Data Collection in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2686-2697.	6.3	71
12	A Review on Antenna Technologies for Ambient RF Energy Harvesting and Wireless Power Transfer: Designs, Challenges and Applications. IEEE Access, 2022, 10, 17231-17267.	4.2	66
13	An Evolutionary Game Theoretic Approach for Stable and Optimized Clustering in VANETs. IEEE Transactions on Vehicular Technology, 2018, 67, 4501-4513.	6.3	64
14	A Review of Routing Protocols in Wireless Body Area Networks. Journal of Networks, 2013, 8, .	0.4	64
15	Wide-angle metamaterial absorber with highly insensitive absorption for TE and TM modes. Scientific Reports, 2020, 10, 13638.	3.3	61
16	Internet of Things 2.0: Concepts, Applications, and Future Directions. IEEE Access, 2021, 9, 70961-71012.	4.2	61
17	Exponential Antipodal Vivaldi Antenna With Exponential Dielectric Lens. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	4.0	51
18	A Hybrid-Fuzzy Logic Guided Genetic Algorithm (H-FLGA) Approach for Resource Optimization in 5G VANETs. IEEE Transactions on Vehicular Technology, 2019, 68, 6964-6974.	6.3	51

#	ARTICLE	IF	CITATIONS
19	Energy efficient thermal and power aware (ETPA) routing in Body Area Networks. , 2012, , .		49
20	Radio Alignment for Inductive Charging of Electric Vehicles. IEEE Transactions on Industrial Informatics, 2015, 11, 427-440.	11.3	49
21	Review on Metamaterial Perfect Absorbers and Their Applications to IoT. IEEE Internet of Things Journal, 2021, 8, 4105-4131.	8.7	48
22	Smart spectrum allocation for interference mitigation in Wireless Body Area Networks. , 2014, , .		41
23	Enabling Ultra-Reliable and Low-Latency Communications through Unlicensed Spectrum. IEEE Network, 2018, 32, 70-77.	6.9	37
24	Miniature tri-band wideband Sierpinski-Minkowski fractals metamaterial perfect absorber. IET Microwaves, Antennas and Propagation, 2019, 13, 991-996.	1.4	30
25	Scalability of MANET routing protocols for heterogeneous and homogenous networks. Computers and Electrical Engineering, 2010, 36, 752-765.	4.8	28
26	AIM: Adaptive Internet network interference mitigation amongst co-existing wireless body area networks. , 2014, , .		27
27	A Routing Framework for Offloading Traffic From Cellular Networks to SDN-Based Multi-Hop Device-to-Device Networks. IEEE Transactions on Network and Service Management, 2018, 15, 1516-1531.	4.9	26
28	A Novel Approach for Big Data Classification and Transportation in Rail Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1239-1249.	8.0	26
29	An End-to-End (E2E) Network Slicing Framework for 5G Vehicular Ad-Hoc Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 7103-7112.	6.3	22
30	Graph theory and its applications to future network planning: software-defined online small cell management. IEEE Wireless Communications, 2015, 22, 52-60.	9.0	21
31	Reinforcement Learning for Scheduling Wireless Powered Sensor Communications. IEEE Transactions on Green Communications and Networking, 2019, 3, 264-274.	5.5	20
32	Multihop Relay Techniques for Communication Range Extension in Near-Field Magnetic Induction Communication Systems. Journal of Networks, 2013, 8, .	0.4	20
33	Frost Monitoring Cyber-Physical System: A Survey on Prediction and Active Protection Methods. IEEE Internet of Things Journal, 2020, 7, 6514-6527.	8.7	18
34	On Optimising Route Discovery in Absence of Previous Route Information in MANETs. , 2009, , .		17
35	Experimental evaluation of IEEE 802.11s path selection protocols in a mesh testbed. , 2010, , .		17
36	Polarization-Insensitive Metamaterial Absorber for Crowd Estimation Based on Electromagnetic Energy Measurements. IEEE Transactions on Antennas and Propagation, 2020, 68, 1458-1467.	5.1	17

#	ARTICLE	IF	CITATIONS
37	Optimisation of monolithic nanocomposite and transparent ceramic scintillation detectors for positron emission tomography. Scientific Reports, 2020, 10, 1409.	3.3	17
38	Blockchain for IoT: The Challenges and a Way Forward. , 2018, , .		17
39	Low Complexity Interference Aware Distributed Resource Allocation for Multi-Cell OFDMA Cooperative Relay Networks. , 2010, , .		16
40	Optimised relay selection for route discovery in reactive routing. Ad Hoc Networks, 2013, 11, 70-88.	5.5	15
41	Studying the Impact of the CORNER Propagation Model on VANET Routing in Urban Environments. , 2012, , .		14
42	Soil moisture remote sensing using SIW cavity based metamaterial perfect absorber. Scientific Reports, 2021, 11, 7153.	3.3	14
43	A cooperative network coding approach to reliable Wireless Body Area Networks with demodulate-and-forward. , 2013, , .		12
44	SEA-BAN: Semi-autonomous adaptive routing in wireless body area networks. , 2013, , .		12
45	Antenna and Propagation Considerations for Amateur UAV Monitoring. IEEE Access, 2018, 6, 28001-28007.	4.2	12
46	A Blockchain-based File-sharing System for Academic Paper Review. , 2019, , .		12
47	On the Outage of Multihop Parallel Relay Networks. , 2010, , .		11
48	EAR-BAN: Energy efficient adaptive routing in Wireless Body Area Networks. , 2013, , .		11
49	Cooperative scheduling with graph coloring for interference mitigation in wireless body area networks. , 2014, , .		11
50	Distributed Hybrid Coverage Hole Recovery in Wireless Sensor Networks. IEEE Sensors Journal, 2016, , 1-1.	4.7	11
51	Analytic Performance Model for State-Based MAC Layer Cooperative Retransmission Protocols. IEEE Transactions on Mobile Computing, 2016, 15, 32-44.	5.8	11
52	Toward Integrating Intelligence and Programmability in Open Radio Access Networks: A Comprehensive Survey. IEEE Access, 2022, 10, 67747-67770.	4.2	11
53	Boundary node selection algorithms in WSNs. , 2011, , .		10
54	Optimizing synchronizability in networks of coupled systems. Automatica, 2020, 112, 108711.	5.0	10

#	ARTICLE	IF	CITATIONS
55	Blockchain for IoT: The Challenges and a Way Forward. , 2018, , .		10
56	Remote Water Salinity Sensor Using Metamaterial Perfect Absorber. IEEE Transactions on Antennas and Propagation, 2022, 70, 6785-6794.	5.1	10
57	An efficient opportunistic cooperative diversity protocol for IEEE 802.11 networks. , 2010, , .		9
58	Wireless technologies for Body Area Networks: Characteristics and challenges. , 2012, , .		9
59	A Survey and Comparison of Device-to-Device Architecture Using LTE Unlicensed Band. , 2017, , .		9
60	Analysis of Effective Capacity and Throughput of Polling-Based Device-To-Device Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8656-8666.	6.3	9
61	Low-Frequency Metamaterial Absorber Using Space-Filling Curve. Journal of Electronic Materials, 2019, 48, 6451-6459.	2.2	9
62	A power efficient RAT selection algorithm for heterogeneous wireless networks. , 2012, , .		8
63	An energy efficient network coding approach for Wireless Body Area Networks. , 2013, , .		8
64	A Tuned Fuzzy Logic Relocation Model in WSNs Using Particle Swarm Optimization. , 2013, , .		8
65	Analysis of Finite Buffer in Two-Way Relay: A Queueing Theoretic Point of View. IEEE Transactions on Vehicular Technology, 2018, 67, 3690-3694.	6.3	8
66	SDN Controllers Scalability and Performance Study. , 2019, , .		8
67	Ultra Wideband Dual Polarization Metamaterial Absorber for 5G frequency spectrum. , 2020, , .		8
68	A mobility optimization CRRM approach for Next Generation Wireless Networks. , 2012, , .		7
69	Improving fairness in IEEE 802.11 networks using MAC layer opportunistic retransmission. Computer Networks, 2013, 57, 3410-3427.	5.1	7
70	Experimental validation of the CORNER urban propagation model based on signal power measurements in a vehicular environment. , 2013, , .		7
71	A New Trellis Model for MAC Layer Cooperative Retransmission Protocols. IEEE Transactions on Vehicular Technology, 2017, 66, 3448-3461.	6.3	7
72	PLEDGE: A Proof-of-Honesty based Consensus Protocol for Blockchain-based IoT Systems. , 2020, , .		7

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73	Optimal Synchronizability in Networks of Coupled Systems: Topological View. IEEE Transactions on Network Science and Engineering, 2021, 8, 1517-1530.	6.4	7
74	Intelligent and Reliable Millimeter Wave Communications for RIS-Aided Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21582-21592.	8.0	7
75	GPS-Based Route Discovery Algorithms for On-Demand Routing Protocols in MANETs. Lecture Notes in Computer Science, 2004, , 144-157.	1.3	6
76	Effect of conducting polypyrrole on the transport properties of carbon nanotube yarn. Thin Solid Films, 2012, 520, 7049-7053.	1.8	6
77	SWPT: A Joint-Scheduling Model for Wireless Powered Sensor Networks. , 2017, , .		6
78	A Comprehensive Access Point Placement for IoT Data Transmission Through Train-Wayside Communications in Multi-Environment Based Rail Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11937-11949.	6.3	6
79	Crowd Estimation Using Electromagnetic Wave Power-Level Measurements: A Proof of Concept. IEEE Transactions on Vehicular Technology, 2020, 69, 784-792.	6.3	6
80	On Optimising Route Discovery for Multi-interface and Power-Aware Nodes in Heterogeneous MANETs. , 2010, , .		5
81	Outage probability of multihop relay networks. , 2013, , .		5
82	A geometrical sink-based cooperative coverage hole recovery strategy for WSNs. , 2015, , .		5
83	Scalable MAC protocol for D2D communication for future 5G networks. , 2017, , .		5
84	PCF-Based LTE Wi-Fi Aggregation for Coordinating and Offloading the Cellular Traffic to D2D Network. IEEE Transactions on Vehicular Technology, 2018, 67, 12193-12203.	6.3	5
85	Mobility Model for Contact-Aware Data Offloading Through Train-to-Train Communications in Rail Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 597-609.	8.0	5
86	Software-Defined Networking-Based Adaptive Routing for Multi-Hop Multi-Frequency Wireless Mesh. IEEE Transactions on Vehicular Technology, 2021, 70, 13073-13086.	6.3	5
87	Survey of the potential of emerging wireless technologies to improve telecommunication services in remote Australian settlements. Rangeland Journal, 2008, 30, 157.	0.9	5
88	Performance analysis of multi-hop routing protocols in SDN-based wireless networks. Computers and Electrical Engineering, 2022, 97, 107393.	4.8	5
89	A multi-layered intrusion detection system for software defined networking. Computers and Electrical Engineering, 2022, 101, 108042.	4.8	5
90	Dynamic zone topology routing protocol for MANETs. European Transactions on Telecommunications, 2007, 18, 351-368.	1.2	4

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91	Characterising the Interactions Between Unicast and Broadcast in IEEE 802.11 Ad Hoc Networks. , 2008, , .		4
92	On the Symbol Error Probability of Multihop Parallel Relay Networks. IEEE Communications Letters, 2011, 15, 719-721.	4.1	4
93	On the Error Exponent of Amplify and Forward Relay Networks. IEEE Communications Letters, 2011, 15, 1047-1049.	4.1	4
94	A fuzzy logic node relocation model in WSNs. , 2012, , .		4
95	Utility-based resource allocation for interference limited OFDMA cooperative relay networks. Physical Communication, 2016, 20, 74-84.	2.1	4
96	On improving the saturation performance of IEEE802.15.6-based MAC protocols in Wireless Body Area Networks. , 2017, , .		4
97	A Case Study for Choosing Proper Relocation Algorithms to Recover Large Scale Coverage Hole(s) in Wireless Sensor Networks. , 0, , .		4
98	PLEDGE: An IoT-oriented Proof-of-Honesty based Blockchain Consensus Protocol. , 2020, , .		4
99	Science and Technology Parks: A Futuristic Approach. IEEE Access, 2022, 10, 31981-32021.	4.2	4
100	Statistical Learning-Based Grant-Free Access for Delay-Sensitive Internet of Things Applications. IEEE Transactions on Vehicular Technology, 2022, 71, 5492-5506.	6.3	4
101	Low-profile dual-band pixelated defected ground antenna for multistandard IoT devices. Scientific Reports, 2022, 12, .	3.3	4
102	Addressing Schemes for Body Area Networks. IEEE Communications Letters, 2011, 15, 1310-1313.	4.1	3
103	Simulation of Contrasting Clustering Paradigms under an Experimentally-Derived Channel Model. , 2014, , .		3
104	Multi Objective Resource Optimisation for Network Function Virtualisation Requests. , 2018, , .		3
105	Efficient Cellular Base Stations Sleep Mode Control Using Image Matching. , 2019, , .		3
106	Mapping and Scheduling for Non-Uniform Arrival of Virtual Network Function (VNF) Requests. , 2019, , .		3
107	Mapping and Scheduling of Virtual Network Functions using Multi Objective Optimization Algorithm. , 2019, , .		3
108	A Review of Current On-demand Routing Protocols. Lecture Notes in Computer Science, 2001, , 186-195.	1.3	3

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109	Joint Energy Harvesting and Internetwork Interference Mitigation amongst Coexisting Wireless Body Area Networks. , 2014, , .		3
110	Centralized and Distributed CRRM in Heterogeneous Wireless Networks. Topics in Intelligent Engineering and Informatics, 2014, , 299-314.	0.4	3
111	Statistical Learning-Based Dynamic Retransmission Mechanism for Mission Critical Communication: An Edge-Computing Approach. , 2020, , .		3
112	Self-selection route discovery strategies for reactive routing in ad hoc networks. , 2006, , .		2
113	OLSR-R&lt;sup>3&lt;/sup>: Optimised link state routing with reactive route recovery. , 2009, , .		2
114	Hierarchical Collision-free Addressing Protocol(HCAP) for Body Area Networks. , 2011, , .		2
115	SEP of Multihop Relay Networks in Nakagami-m Fading Channels. , 2013, , .		2
116	Dynamic Environmental Fading in Urban VANETs. , 2014, , .		2
117	Biologically inspired self-organization and node-level interference mitigation amongst multiple coexisting wireless body area networks. , 2017, , .		2
118	Opportunistic Spectrum Allocation for Interference Mitigation Amongst Coexisting Wireless Body Area Networks. ACM Transactions on Sensor Networks, 2018, 14, 1-22.	3.6	2
119	A Big Sensor Data Offloading Scheme in Rail Networks. , 2019, , .		2
120	PrivySharing: A Blockchain-based Framework for Integrity and Privacy-preserving Data Sharing in Smart Cities. , 2019, , .		2
121	A New Strategy to Improve Proactive Route Updates in Mobile Ad Hoc Networks. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	2.4	1
122	Highly Scalable Routing Strategies: Dztr Routing Protocol. , 2005, , 1-18.		1
123	An optimised resource aware approach to information collection in ad hoc networks. Ad Hoc Networks, 2005, 3, 643-655.	5.5	1
124	Serially Concatenated Turbo Codes. , 2009, , .		1
125	Optimized prophet address allocation (OPAA) for Body Area Networks. , 2011, , .		1
126	An iteratively tuned fuzzy logic movement model in WSN using particle swarm optimization. , 2013, , .		1



#	ARTICLE	IF	CITATIONS
127	A general performance model for MAC layer cooperative retransmission contention protocols. , 2013, , .		1
128	Self-organization amongst multiple co-existing wireless body area networks. , 2015, , . Including general environmental effects in $\langle \text{mml:math altimg="s11.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co" \rangle$		1
129	Cooperative recovery of coverage holes in WSNs via disjoint spanning trees. , 2017, , .	2.1	1
130	Addressing coverage problem in wireless sensor networks based on evolutionary algorithms. , 2017, , .		1
131	Effect of the number of participating nodes on recovery of WSN coverage holes. , 2017, , .		1
132	Leveraging the Propagation Model to Make Greedy Routing Decisions in Urban Environments. , 2017, , .		1
133	Crowd Density Mapping Based on Wi-Fi Measurements on Train Platforms. , 2018, , .		1
134	A Multi-agent Controller to enable Cognition in Software Defined Networks. , 2018, , .		1
135	Localisation of the Lines of Response in a Continuous Cylindrical Shell PET Scanner. , 2019, 2019, 4844-4850.		1
136	Intelligent Hybrid Cheapest Cost and Mobility Optimization RAT Selection Approaches for Heterogeneous Wireless Networks. Journal of Networks, 2014, 9, .	0.4	1
137	Constraint-Based Rerouting mechanism to address Congestion in Software Defined Networks. , 2020, , .		1
138	Minute-wise frost prediction: An approach of recurrent neural networks. Array, 2022, 14, 100158.	4.0	1
139	Distributed MIMO systems using Asterism decoding. , 2007, , .		0
140	Routing metric for multi-interface and power-aware nodes in heterogeneous MANETs. , 2009, , .		0
141	End-to-End path stability of reactive routing protocols in IEEE 802.11 ad hoc networks. , 2009, , .		0
142	On the impact of RD link in resource allocation for multi-cell OFDMA cooperative relay networks with partial CSI. , 2012, , .		0
143	Error Exponent of Amplify and Forward Relay Networks in Presence of I.I.D. Interferers. , 2014, , .		0
144			

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145	Exploiting Unknown Dynamics in Communications Amongst Coexisting Wireless Body Area Networks. , 2014, , .		0
146	Ad Hoc Networks. , 2005, , .		0
147	UHF-Based Community Voice Service in Nganyatjarra Lands of Australia. , 2007, , 295-297.		0
148	NFMIC Cooperative Communication Methods for Body Area Networks. Journal of Networks, 2012, 7, .	0.4	0
149	Performance Analysis of the Intelligent Mobility Optimization CRRM Approach Using a Markovian Chain Model. Journal of Networks, 2014, 9, .	0.4	0
150	Multi-band SIW Cavity Based Metamaterial Perfect Absorber. , 2021, , .		0