Abbas Jamalipour

List of Publications by Citations

253 papers	**3,081** citations	**27** h-index	**45** g-index
313 ext. papers	**4,041** ext. citations	**5.5** avg, IF	**6.24** L-index

#	Paper	IF	Citations
253	Modeling air-to-ground path loss for low altitude platforms in urban environments **2014**,		516
252	Enabling interference-aware and energy-efficient coexistence of multiple wireless body area networks with unknown dynamics. *IEEE Access*, **2016**, 4, 2935-2951	3.5	80
251	A Dynamic Anomaly Detection Scheme for AODV-Based Mobile Ad Hoc Networks. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 2471-2481	6.8	72
250	Lab-in-a-Phone: Smartphone-Based Portable Fluorometer for pH Measurements of Environmental Water. *IEEE Sensors Journal*, **2015**, 15, 5095-5102	4	71
249	Machine Learning Inspired Sound-Based Amateur Drone Detection for Public Safety Applications. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 2526-2534	6.8	71
248	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 3005-3017	6.8	65
247	Toward the Evolution of Wireless Powered Communication Networks for the Future Internet of Things. *IEEE Network*, **2017**, 31, 62-69	11.4	64
246	Optimized Energy and Information Relaying in Self-Sustainable IRS-Empowered WPCN. *IEEE Transactions on Communications*, **2021**, 69, 619-633	6.9	58
245	Exploring the routing strategies in next-generation satellite networks. *IEEE Wireless Communications*, **2007**, 14, 79-88	13.4	56
244	UAV-Empowered Disaster-Resilient Edge Architecture for Delay-Sensitive Communication. *IEEE Network*, **2019**, 33, 124-132	11.4	49
243	. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 12215-12226	6.8	45
242	A Lightweight Intrusion Detection for Sybil Attack Under Mobile RPL in the Internet of Things. *IEEE Internet of Things Journal*, **2020**, 7, 379-388	10.7	38
241	Rate and Power Adaptation for Analog Network Coding. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 2302-2313	6.8	37
240	Intrusion detection in smart cities using Restricted Boltzmann Machines. *Journal of Network and Computer Applications*, **2019**, 135, 76-83	7.9	35
239	Stable Clustering and Communications in Pseudolinear Highly Mobile Ad Hoc Networks. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 3769-3777	6.8	35
238	. *IEEE Internet of Things Journal*, **2021**, 8, 9776-9786	10.7	35
237	ECaD: Energy-efficient routing in flying ad hoc networks. *International Journal of Communication Systems*, **2019**, 32, e4156	1.7	34

236	Traffic Differentiated Clustering Routing in DSRC and C-V2X Hybrid Vehicular Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 7723-7734	6.8	33
235	Distributed Inter-BS Cooperation Aided Energy Efficient Load Balancing for Cellular Networks. *IEEE Transactions on Wireless Communications*, **2013**, 12, 5929-5939	9.6	33
234	FlowStat: Adaptive Flow-Rule Placement for Per-Flow Statistics in SDN. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 530-539	14.2	32
233	Leveraging Communicating UAVs for Emergency Vehicle Guidance in Urban Areas. *IEEE Transactions on Emerging Topics in Computing*, **2021**, 9, 1070-1082	4.1	32
232	NIS01-2: A Collusion Attack Against OLSR-based Mobile Ad Hoc Networks. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,		31
231	. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 6964-6974	6.8	30
230	A cooperative cache-based content delivery framework for intermittently connected mobile ad hoc networks. *IEEE Transactions on Wireless Communications*, **2010**, 9, 366-373	9.6	29
229	Amateur Drone Surveillance: Applications, Architectures, Enabling Technologies, and Public Safety Issues: Part 2. *IEEE Communications Magazine*, **2018**, 56, 66-67	9.1	28
228	Link stability estimation based on link connectivity changes in mobile ad-hoc networks. *Journal of Network and Computer Applications*, **2012**, 35, 2051-2058	7.9	28
227	Extensive Cooperative Caching in D2D Integrated Cellular Networks. *IEEE Communications Letters*, **2017**, 21, 2101-2104	3.8	27
226	Early warning smartphone diagnostics for water security and analysis using real-time pH mapping. *Photonic Sensors*, **2015**, 5, 289-297	2.3	25
225	Priority-based adaptive routing in NGEO satellite networks. *International Journal of Communication Systems*, **2007**, 20, 313-333	1.7	25
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223	Distributed MAC Protocol Supporting Physical-Layer Network Coding. *IEEE Transactions on Mobile Computing*, **2013**, 12, 1023-1036	4.6	24
222	AIM: Adaptive Internetwork interference mitigation amongst co-existing wireless body area networks **2014**,		22
221	Mobility-Aware Energy-Efficient Parent Selection Algorithm for Low Power and Lossy Networks. *IEEE Internet of Things Journal*, **2019**, 6, 2593-2601	10.7	22
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219	Enabling Situation Awareness at Intersections for IVC Congestion Control Mechanisms. *IEEE Transactions on Mobile Computing*, **2016**, 15, 1674-1685	4.6	21

182	Joint User Pairing and Resource Allocation in a SWIPT-Enabled Cooperative NOMA System. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6826-6840	6.8	10
181	Toward self-organizing sectorization of LTE eNBs for energy efficient network operation under QoS constraints **2013**,		9
180	A three-tier SDN architecture for DenseNets **2015**,		9
179	Cache-Based Content Delivery in Opportunistic Mobile Ad Hoc Networks **2008**,		9
178	Multipath Doppler Routing with QoS Support in Pseudo-linear Highly Mobile Ad Hoc Networks **2006**,		9
177	A Three-Tier SDN based distributed mobility management architecture for DenseNets **2016**,		8
176	Optimal Best Path Selection Algorithm for Cluster-Based Multi-Hop MIMO Cooperative Transmission for Vehicular Communications. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 8314-8321	6.8	8
175	Cooperative communication with asymmetric channel state information: A contract theoretic modeling approach. *China Communications*, **2013**, 10, 31-43	3	8
174	Optimal Cluster Head Spacing for Energy-Efficient Communication in Aerial-Backhauled Networks **2015**,		8
173	A New Stable Clustering Scheme for Pseudo-Linear Highly Mobile Ad Hoc Networks **2007**,		8
172	IP Traffic Load Distribution in NGEO Broadband Satellite Networks (Invited Paper). *Lecture Notes in Computer Science*, **2005**, 113-123	0.9	8
171	A QoS-Oriented High-Efficiency Resource Allocation Scheme in Wireless Multimedia Sensor Networks. *IEEE Sensors Journal*, **2017**, 17, 1538-1548	4	7
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169	Two-Way Dual-Hop WPCN With A Practical Energy Harvesting Model. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 8013-8017	6.8	7
168	An Outage Performance Analysis With Moving Relays on Suburban Trains for Uplink. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	7
167	Analysis of Effective Capacity and Throughput of Polling-Based Device-To-Device Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8656-8666	6.8	7
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165	A smart city cyber security platform for narrowband networks **2017**,		7

164	EM-Based High Speed Wireless Sensor Networks for Underwater Surveillance and Target Tracking. *Journal of Sensors*, **2017**, 2017, 1-14	2	7
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162	An optimized forwarding protocol for lifetime extension of wireless sensor networks. *Wireless Communications and Mobile Computing*, **2009**, 9, 103-115	1.9	7
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160	Symbol error rate analysis for M-QAM modulated physical-layer network coding with phase errors **2012**,		7
159	An Epidemic P2P Content Search Mechanism for Intermittently Connected Mobile Ad Hoc Networks **2009**,		7
158	SAT05-1: Design Guidelines for a Global and Self-Managed LEO Satellites-Based Sensor Network. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,		7
157	Measurement-based admission control scheme with priority and service classes for application in wireless IP networks. *International Journal of Communication Systems*, **2003**, 16, 535-551	1.7	7
156	New NOMA-Based Two-Way Relay Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 15314-15324		7
155	Deep Q-Learning based Resource Management in UAV-assisted Wireless Powered IoT Networks **2020**,		7
154	A Blockchain Assisted Vehicular Pseudonym Issuance and Management System for Conditional Privacy Enhancement. *IEEE Access*, **2021**, 9, 127305-127319	3.5	7
153	Backscatter-Assisted Wireless Powered Communication Networks Empowered by Intelligent Reflecting Surface. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	7
152	Energy Optimization in Association-Free Fog-IoT Networks. *IEEE Transactions on Green Communications and Networking*, **2020**, 4, 404-412	4	6
151	Mobility management in three-tier SDN architecture for DenseNets **2016**,		6
150	An Economic Welfare Preserving Framework for Spot Pricing and Hedging of Spectrum Rights for Cognitive Radio. *IEEE Transactions on Network and Service Management*, **2012**, 9, 87-99	4.8	6
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144	Two level cooperation for energy efficiency in multi-RAN cellular network environment **2012**,		6
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136	Optimized resource allocation in LTE networks incorporating delay-sensitive smart grid traffic **2016**,		6
135	Energy efficiency of combined DPS and JT CoMP technique in downlink LTE-A cellular networks **2016**,		6
134	Improving Throughput of 5G Cellular Networks via 3D Placement Optimization of Logistics Drones. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 1448-1460	6.8	6
133	A Novel Random Access Mechanism for Timely Reliable Communications for Smart Meters. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 3256-3264	11.9	5
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131	A Contract-Auction Mechanism for Multi-Relay Cooperative Wireless Networks **2014**,		5
130	An exact solution to degree distribution optimization in LT codes **2014**,		5
129	A MANET-based semantic traffic management framework for ubiquitous public safety networks. *Wireless Communications and Mobile Computing*, **2014**, 14, 1127-1142	1.9	5

128	EAR-BAN: Energy efficient adaptive routing in Wireless Body Area Networks **2013**,		5
127	On the impact of relay-side channel state information on opportunistic relaying **2013**,		5
126	MAC framework for Intermittently Connected Cognitive Radio networks **2009**,		5
125	TCP throughput and fairness performance in presence of delay spikes in wireless networks. *International Journal of Communication Systems*, **2005**, 18, 395-407	1.7	5
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123	Coverage Analysis for Multi-Request Association Model (MRAM) in a Caching Ultra-Dense Network. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 3882-3889	6.8	5
122	Delay-Oriented Spectrum Sharing and Traffic Offloading in Coexisting UAV-Enabled Cellular and WiFi Networks **2018**,		5
121	A Heuristic Distributed Scheme to Detect Falsification of Mobility Patterns in Internet of Vehicles. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	5
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117	Relay selection scheme for cooperative communication networks using contract theory **2013**,		4
116	Fairness enhancement in dual-hop wireless powered communication networks **2017**,		4
115	Almost as good as single-hop full-duplex: bidirectional end-to-end known interference cancellation **2015**,		4
114	Optimal resource allocation for Smart Grid applications in high traffic wireless networks **2014**,		4
113	Contract design for relay-based cooperative communication with hidden channel state information **2012**,		4
112	A multi-path cognitive resource management mechanism for QoS provisioning in wireless mesh networks. *Wireless Networks*, **2011**, 17, 277-290	2.5	4
111	Opportunistic geocast in large scale intermittently connected mobile ad hoc networks **2011**,		4

110	Localization in wireless sensor networks by constrained simultaneous perturbation stochastic approximation technique **2012**,		4
109	On the energy efficiency of self-organizing LTE cellular access networks **2012**,		4
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107	QoS-aware mobility support architecture for next generation mobile networks. *Wireless Communications and Mobile Computing*, **2005**, 5, 887-898	1.9	4
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101	A Reliable Data Loss Aware Algorithm for Fog-IoT Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 5718-5722	6.8	4
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96	On the authentication and re-authentication protocols in LTE-WLAN interworking architecture. *Transactions on Emerging Telecommunications Technologies*, **2017**, 28, e3031	1.9	3
95	Energy Consumption Tradeoff for Association-Free Fog-IoT **2019**,		3
94	Low-Delay Path Selection for Cluster-Based Buffer-Aided Vehicular Communications. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 9356-9363	6.8	3
93	A Machine Learning Approach for Intrusion Detection in Smart Cities **2019**,		3

92	Exploiting Unknown Dynamics in Communications Amongst Coexisting Wireless Body Area Networks **2015**,		3
91	Smart meter packet transmission via the control signal of LTE networks **2015**,		3
90	Location Estimation Using Geometry of Overhearing Under Shadow Fading Conditions. *IEEE Transactions on Wireless Communications*, **2012**, 11, 4140-4149	9.6	3
89	Opportunistic Virtual Backbone Construction in Intermittently Connected Mobile Ad Hoc Networks **2011**,		3
88	NEtwork MObility (NEMO) Support in Interworking Heterogeneous Mobile Networks **2010**,		3
87	Opportunistic node authentication in intermittently connected mobile ad hoc networks **2010**,		3
86	Pricing of Cognitive Radio Rights to Maintain the Risk-Reward of Primary User Spectrum Investment **2010**,		3
85	A correlative study of cooperation enforcement mechanisms **2011**,		3
84	Bilateral Shapley Value Based Cooperative Gateway Selection in Congested Wireless Mesh Networks **2008**,		3
83	An architecture for mobility management in interworked 3G cellular and WiMAX Networks. *Wireless Telecommunications Symposium, 2009 WTS 2009*, **2008**,		3
82	Analysis of Signaling Cost for a Roaming User in a Heterogeneous Mobile Data Network **2008**,		3
81	A Fuzzy Logic-based Delivery Framework for Optimized Routing in Mobile Ad Hoc Networks **2008**,		3
80	Securing the next generation mobile network. *Security and Communication Networks*, **2008**, 1, 25-43	1.9	3
79	NXG04-5: Fair Call Admission Control for Prioritizing Vertical Handoff in Multi-Traffic B3G Networks. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,		3
78	On data gathering and security in wireless sensor networks **2007**,		3
77	NXG04-2: A Negotiation-Based Network Selection Scheme for Next-Generation Mobile Systems. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,		3
76	Adaptive directional-aware location update strategy. *International Journal of Communication Systems*, **2004**, 17, 141-161	1.7	3
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73	Multi-Operator Cooperation for Green Cellular Networks With Spatially Separated Base Stations Under Dynamic User Associations. *IEEE Transactions on Green Communications and Networking*, **2019**, 3, 93-107	4	3
72	Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *IEEE Internet of Things Journal*, **2021**, 8, 3875-3884	10.7	3
71	Adaptive Resource Allocation in SWIPT-Enabled Cognitive IoT Networks. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	3
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66	Probability-based opportunity dynamic adaptation (PODA) of contention window for home M2M networks. *Journal of Network and Computer Applications*, **2019**, 144, 1-12	7.9	2
65	A novel scheduling technique for Smart Grid data on LTE networks **2013**,		2
64	3D Location Estimation in Urban Cellular Systems Using the Overhearing Model **2011**,		2
63	Group Mobility Management for Vehicular Area Networks Roaming between Heterogeneous Networks **2010**,		2
62	A Cooperative Cellular Architecture with Emphasis on Traffic Load Balancing **2010**,		2
61	A semantic traffic management scheme for public safety applications in Mobile Ad Hoc Networks **2011**,		2
60	Multi-path routing for a cognitive Wireless Mesh Network **2009**,		2
59	Fastest Distributed Consensus on Star-Mesh Hybrid Sensor Networks **2011**,		2
58	Resource competition at the NGN core network: An ecologically inspired analysis **2011**,		2
57	Phase-level synchronization for physical-layer network coding **2012**,		2

56	Content-based routing using multicasting for Vehicular Networks **2012**,		2
55	Distributed data storage in sensor networks based on Raptor codes **2012**,		2
54	Evaluation of Session Handoffs in a Heterogeneous Mobile Network for Pareto Based Packet Arrivals **2009**,		2
53	An Efficient Signature-Based Approach for Automatic Detection of Internet Worms over Large-Scale Networks **2006**,		2
52	Adaptive Beamforming and Modulation for OFDM in Co-Working WLANs With ACK Eigen-Steering **2006**,		2
51	Interference Cancellation in Coexisting Wireless Local Area Networks **2006**,		2
50	A Fair TCP-Based Congestion Avoidance Approach for One-to-Many Private Networks **2006**,		2
49	Dynamic Aerial Wireless Power Transfer Optimization. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	2
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46	MAC Protocol for Underwater Sensor Networks Using EM Wave With TDMA Based Control Channel. *IEEE Access*, **2020**, 8, 168439-168455	3.5	2
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38   Demand management using utility based real time pricing for smart grid with a new cost function **2017**,   1

37   RF based underwater wireless sensor network architectures for tracking intruders in 3D space **2015**,   1

36   Downlink coverage performance of a relay cellular network considering non-uniform user distribution **2014**,   1

35   Effect of node neighborhood on the evolution of cooperation using public goods game in vehicular networks **2014**,   1

34   A scalable distributed Microgrid Control Structure **2013**,   1

33   A modified M2M-based movement prediction for realistic emergency environments **2013**,   1

32   Outage performance of a network model based on average user distance in cellular systems **2013**,   1

31   Route optimization for roaming heterogeneous multi-homed mobile networks **2010**,   1

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29   Game theoretic outage compensation in next generation mobile networks. *IEEE Transactions on Wireless Communications*, **2009**, 8, 2602-2608   9.6   1

28   MPEG-4 Traffic Prediction Using Density Estimation for Dynamic Bandwidth Allocation in IEEE 802.16 Networks **2011**,   1

27   Ecologically inspired equitable resource distribution between heterogeneous service classes in the NGN **2012**,   1

26   Opinion based service selection in a pervasive cooperative consumer network **2012**,   1

25   Two-phase demand response based on privacy-preserving billing for smart grid **2012**,   1

24   Designing an Application-Aware Routing Protocol for Wireless Sensor Networks **2008**,   1

23   On the use of WiMAX as the terrestrial segment for DVB-SH networks **2008**,   1

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20	Service based CAC with QoS guarantee in mobile wireless cellular networks. *International Journal of Communication Systems*, **2005**, 18, 817-831	1.7	1
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18	An On-Chain Analysis-Based Approach to Predict Ethereum Prices. *IEEE Access*, **2021**, 9, 167972-167989	3.5	1
17	An Efficient Coordinator Selection Method for Geo-Routing Protocol in Vehicular Network **2020**,		1
16	IEEE Access Special Section Editorial: Edge Computing and Networking for Ubiquitous AI. *IEEE Access*, **2021**, 9, 90933-90936	3.5	1
15	Mobile Sensor-Cloud for Rendering Sensors-as-a-Service. *IEEE Systems Journal*, **2021**, 1-12	4.3	1
14	Traffic Steering for SDN-Based Cellular Networks: Policy Dependent Framework **2018**,		1
13	Efficient Task Allocation Protocol for a Hybrid-Hierarchical Spatial-Aerial-Terrestrial Edge-Centric IoT Architecture. *IEICE Transactions on Communications*, **2021**,	0.5	1
12	Statistical Learning-based Grant-Free Access for Delay-Sensitive Internet of Things Applications. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	1
11	Bounded Dimensioning of Multitraffic Next-Generation Mobile Networks. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 1957-1963	6.8	0
10	An End-to-End (E2E) Network Slicing Framework for 5G Vehicular Ad-Hoc Networks. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7103-7112	6.8	0
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| 2 | Editorial Welcome Message From the New Editor-in-Chief. *IEEE Transactions on Vehicular Technology*, **2022**, 71, 2227-2228 | 6.8 |
| 1 | An Optimization Model for Appraising Intrusion-Detection Systems for Network Security Communications: Applications, Challenges, and Solutions. *Sensors*, **2022**, 22, 4123 | 3.8 |