Mohammad Hossein Yaghmaee Moghad

List of Publications by Year
in descending order

175 papers	2,183 citations	304368 22 h-index	315357 38 g-index
175 all docs	175 docs citations	175 times ranked	2084 citing authors

#	Article	IF	Citations
1	An energy-aware distributed clustering protocol in wireless sensor networks using fuzzy logic. Ad Hoc Networks, 2012, 10, 1469-1481.	3.4	223
2	A fog-based internet of energy architecture for transactive energy management systems. IEEE Internet of Things Journal, 2018, 5, 1055-1069.	5.5	122
3	Priority-based rate control for service differentiation and congestion control in wireless multimedia sensor networks. Computer Networks, 2009, 53, 1798-1811.	3.2	111
4	HOCA: Healthcare Aware Optimized Congestion Avoidance and control protocol for wireless sensor networks. Journal of Network and Computer Applications, 2014, 37, 216-228.	5.8	76
5	Hierarchical Clustering-Task Scheduling Policy in Cluster-Based Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 1876-1886.	7.2	65
6	Distributed Clustering-Task Scheduling for Wireless Sensor Networks Using Dynamic Hyper Round Policy. IEEE Transactions on Mobile Computing, 2018, 17, 334-347.	3.9	64
7	A new priority based congestion control protocol for Wireless Multimedia Sensor Networks. , 2008, , .		59
8	On the Performance of Distributed and Cloud-Based Demand Response in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 5403-5417.	6.2	55
9	A Prioritization Based Congestion Control Protocol for Healthcare Monitoring Application in Wireless Sensor Networks. Wireless Personal Communications, 2013, 72, 2605-2631.	1.8	46
10	Optimized Congestion Management Protocol for Healthcare Wireless Sensor Networks. Wireless Personal Communications, 2014, 75, 11-34.	1.8	44
11	Autonomous Two-Tier Cloud-Based Demand Side Management Approach with Microgrid. IEEE Transactions on Industrial Informatics, 2017, 13, 1109-1120.	7.2	43
12	Queen-MAC: A quorum-based energy-efficient medium access control protocol for wireless sensor networks. Computer Networks, 2012, 56, 2221-2236.	3.2	38
13	On Maximizing the Lifetime of Wireless Sensor Networks in Event-driven Applications with Mobile Sinks. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	3.9	38
14	Development of a Markov-Chain-Based Solar Generation Model for Smart Microgrid Energy Management System. IEEE Transactions on Sustainable Energy, 2020, 11, 736-745.	5.9	36
15	Green Cloud Multimedia Networking: NFV/SDN Based Energy-Efficient Resource Allocation. IEEE Transactions on Green Communications and Networking, 2020, 4, 873-889.	3.5	36
16	Design and Implementation of an Internet of Things Based Smart Energy Metering. , 2018, , .		35
17	A multi-objective genetic algorithm based approach for energy efficient QoS-routing in two-tiered Wireless Sensor Networks. , 2010, , .		32
18	Buffer Optimization in Network-on-Chip Through Flow Regulation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 1973-1986.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Load-Balanced and QoS-Aware Software-Defined Internet of Things. IEEE Internet of Things Journal, 2020, 7, 3323-3337.	5.5	30
20	SDN-Based Quality of Service Networking for Wide Area Measurement System. IEEE Transactions on Industrial Informatics, 2020, 16, 3018-3028.	7.2	29
21	Charge Scheduling of Electric Vehicles in Smart Parking-Lot Under Future Demands Uncertainty. IEEE Transactions on Smart Grid, 2020, 11, 4949-4959.	6.2	29
22	CycloidGrid: A proximity-aware P2P-based resource discovery architecture in volunteer computing systems. Future Generation Computer Systems, 2013, 29, 1583-1595.	4.9	28
23	ODT: Optimal deadline-based trajectory for mobile sinks in WSN: A decision tree and dynamic programming approach. Computer Networks, 2015, 77, 128-143.	3.2	27
24	A Load-Balanced Call Admission Controller for IMS Cloud Computing. IEEE Transactions on Network and Service Management, 2016, 13, 806-822.	3.2	25
25	Machine Learning in Transportation. Journal of Advanced Transportation, 2019, 2019, 1-3.	0.9	25
26	OpenSIP: Toward Software-Defined SIP Networking. IEEE Transactions on Network and Service Management, 2018, 15, 184-199.	3.2	23
27	OpenAMI: Software-Defined AMI Load Balancing. IEEE Internet of Things Journal, 2018, 5, 206-218.	5.5	22
28	Load-Balancing Algorithm for Multiple Gateways in Fog-Based Internet of Things. IEEE Internet of Things Journal, 2020, 7, 7043-7053.	5.5	22
29	Energy Efficient Spanning Tree for Data Aggregation in Wireless Sensor Networks. , 2008, , .		20
30	A hybrid clustering approach for prolonging lifetime in wireless sensor networks. , 2011, , .		18
31	Optimal placement of data aggregators in smart grid on hybrid wireless and wired communication. , 2016, , .		18
32	Designing a prediction-based clustering algorithm for target tracking in wireless sensor networks. , 2011, , .		17
33	Multi-class routing protocol using virtualization and SDN-enabled architecture for smart grid. Peer-to-Peer Networking and Applications, 2018, 11, 380-396.	2.6	17
34	A New Pricing Mechanism for Optimal Load Scheduling in Smart Grid. IEEE Systems Journal, 2019, 13, 1737-1746.	2.9	17
35	Performance Analysis of Multithreaded IoT Gateway. IEEE Internet of Things Journal, 2019, 6, 3143-3155.	5.5	17
36	DESC: Distributed Energy Efficient Scheme to Cluster Wireless Sensor Networks. Lecture Notes in Computer Science, 2011, , 234-246.	1.0	16

#	ARTICLE	IF	CITATIONS
37	A Model for Differentiated Service Support in Wireless Multimedia Sensor Networks. , 2008, , .		15
38	Localization in wireless sensor networks using tabu search and simulated annealing. , 2010, , .		15
39	Optimal Location for Mobile Sink in Wireless Sensor Networks. , 2010, , .		15
40	Energy exchange cooperative model in SDN-based interconnected multi-microgrids. Sustainable Energy, Grids and Networks, 2021, 27, 100491.	2.3	14
41	Joint Active Queue Management and Congestion Control Protocol for Healthcare Applications in Wireless Body Sensor Networks. Lecture Notes in Computer Science, 2011, , 88-95.	1.0	14
42	Tree based energy efficient and Congestion aware Routing Protocol for Wireless Sensor Networks. , 2008, , .		13
43	Low-Power Wide Area Network (LPWAN) for Smart grid: An in-depth study on LoRaWAN. , 2019, , .		13
44	A Novel Congestion Control Protocol for Vital Signs Monitoring in Wireless Biomedical Sensor Networks. , 2010, , .		12
45	A load scheduler for SIP proxy servers: design, implementation and evaluation of a history weighted window approach. International Journal of Communication Systems, 2017, 30, e2980.	1.6	12
46	A new clustering protocol for Mobile Ad-Hoc networks. , 2008, , .		11
47	A reliable transport protocol for Wireless Sensor Networks. , 2008, , .		11
48	A fuzzy Active Queue Management mechanism for Internet congestion control. , 2010, , .		11
49	Cluster head selection using a two-level fuzzy logic in wireless sensor networks. , 2010, , .		11
50	Improving on HEED protocol of wireless sensor networks using non probabilistic approach and fuzzy logic (HEED-NPF). , 2010, , .		11
51	Designing an energy efficient prediction-based algorithm for target tracking in wireless sensor networks. , 2011, , .		11
52	Personalized pricing: A new approach for dynamic pricing in the smart grid. , 2016, , .		11
53	FACT: A New Fuzzy Adaptive Clustering Technique. , 2006, , .		10
54	An adaptive Cross-Layer multichannel QoS-MAC protocol for cluster based wireless multimedia sensor networks. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
55	A novel fuzzy metric to evaluate clusters for prolonging lifetime in wireless sensor networks. , 2011, , .		10
56	A novel congestion control protocol with AQM support for IP-based networks. Telecommunication Systems, 2013, 52, 229-244.	1.6	10
57	A Novel Downlink Handover Priority Scheduling Algorithm for Providing Seamless Mobility and QoS in IEEE802.16e BWA System. , 2009, , .		9
58	Optimal regulation of traffic flows in networks-on-chip. , 2010, , .		9
59	A local cluster head election algorithm in wireless sensor networks. , 2011, , .		9
60	Quality of service guarantee in smart grid infrastructure communication using traffic classification. , 2013, , .		9
61	Design of energy-aware QoS routing algorithm in wireless sensor networks using reinforcement learning. , 2014, , .		9
62	An Adaptive Competitive Resource Control Protocol for Alleviating Congestion in Wireless Sensor Networks: An Evolutionary Game Theory Approach. Wireless Personal Communications, 2015, 82, 123-142.	1.8	9
63	Power Consumption Scheduling for Future Connected Smart Homes Using Bi-Level Cost-Wise Optimization Approach. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 326-338.	0.2	9
64	Proposed secureSIP Authentication Scheme based on Elliptic Curve Cryptography. International Journal of Computer Applications, 2012, 58, 25-30.	0.2	9
65	Design and performance evaluation of a fuzzy based traffic conditioner for differentiated services. Computer Networks, 2005, 47, 847-869.	3.2	8
66	CFL: A clustering algorithm for localization in Wireless Sensor Networks. , 2008, , .		8
67	Energy aware multi-path and multi-SPEED routing protocol in wireless sensor networks. , 2009, , .		8
68	Energy Efficient Prediction-Based Clustering Algorithm for Target Tracking in Wireless Sensor Networks. , 2010, , .		8
69	Mobile base station management using fuzzy logic in wireless sensor networks. , 2010, , .		8
70	A Novel Algorithm for Detecting Sinkhole Attacks in WSNs. International Journal of Computer Theory and Engineering, 2012, , 418-421.	3.2	8
71	Demand Response Application as a Service: An SDN-Based Management Framework. IEEE Transactions on Smart Grid, 2022, 13, 1952-1966.	6.2	8
72	Design and Implementation of a Monitoring System Based on IPFIX Protocol. , 2007, , .		7

#	Article	IF	Citations
73	A probabilistic fuzzy approach for sensor location estimation in wireless sensor networks. , 2010, , .		7
74	A Fault Tolerant Protocol for Wireless Sensor Networks. , 2011, , .		7
75	Adaptive QoS scheduling in wireless cellular networks. Wireless Networks, 2011, 17, 701-716.	2.0	7
76	Overload Control in SIP Networks: A Heuristic Approach Based on Mathematical Optimization. , 2015, , .		7
77	Anomaly detection and foresight response strategy for wireless sensor networks. Wireless Networks, 2015, 21, 1425-1442.	2.0	7
78	SDN-based scheduling strategy on load balancing of virtual sensor resources in sensor-cloud. , 2016, , .		7
79	On Maximizing QoE in AVC-Based HTTP Adaptive Streaming: An SDN Approach. , 2018, , .		7
80	Joint Peak Clipping and Load Scheduling Based on User Behavior Monitoring in an IoT Platform. IEEE Systems Journal, 2021, 15, 1202-1213.	2.9	7
81	COCM: Class Based Optimized Congestion Management Protocol for Healthcare Wireless Sensor Networks. Wireless Sensor Network, 2013, 05, 137-149.	0.3	7
82	An intelligent usage parameter controller based on dynamic rate leaky bucket for ATM networks. Computer Networks, 2000, 32, 17-34.	3.2	6
83	Centralized Key Management Scheme in Wireless Sensor Networks. Wireless Personal Communications, 2011, 60, 463-474.	1.8	6
84	Adaptive cache content placement for software-defined Internet of Things. Future Generation Computer Systems, 2022, 136, 34-48.	4.9	6
85	An efficient energy aware routing protocol for real time traffic in wireless sensor networks. , 2009, , .		5
86	FCM-fuzzy rule base: A new rule extraction mechanism. , 2011, , .		5
87	Design and implementation of building energy monitoring system using wireless sensor networks. , 2013, , .		5
88	A novel FLC-based approach for ATM traffic control. Computer Networks, 2001, 36, 643-658.	3.2	4
89	A Fuzzy Algorithm for QoS-Based Routing in MPLS Network. , 2006, , .		4
90	Virtual topology reconfiguration of WDM optical networks using fuzzy logic control. , 2008, , .		4

#	Article	IF	Citations
91	Automata based energy efficient spanning tree for data aggregation in Wireless Sensor Networks. , 2008, , .		4
92	EELLER: Energy Efficient-Low Latency Express Routing for Wireless Sensor Networks. , 2010, , .		4
93	Energy efficient data gathering algorithm in hierarchical wireless sensor networks with mobile sink. , 2012, , .		4
94	SIP Overload Control Testbed: Design, Building and Evaluation. The International Journal of Ambient Systems and Applications, 2013, 1, 17-26.	0.2	4
95	An entropy-based VoIP flooding attacks detection and prevention system. , 2014, , .		4
96	DRCP: A Dynamic Resource Control Protocol for alleviating congestion in Wireless Sensor Networks. , 2014, , .		4
97	A novel load scheduling for session initiation protocol networks. , 2014, , .		4
98	Design of energy-aware QoS routing protocol in wireless sensor networks using reinforcement learning. , 2014, , .		4
99	Total Data Collection Algorithm Based on Estimation Model for Wireless Sensor Network. Wireless Personal Communications, 2015, 81, 745-778.	1.8	4
100	Efficient data collecting and target parameter estimation in wireless sensor networks. Journal of Network and Computer Applications, 2015, 57, 142-155.	5.8	4
101	Residential power consumption forecasting in the smart grid using ANFIS system. , 2017, , .		4
102	An Additive Noise Modeling Technique for Accurate Statistical Study of Residual RF Hardware Impairments. , 2019, , .		4
103	Fuzzy TCP: Optimizing TCP Congestion Control. , 2006, , .		3
104	Fuzzy Proactive Queue Management Technique. , 2006, , .		3
105	Virtual Topology Reconfiguration with Protection Method in WDM Networks. , 2006, , .		3
106	A Fault-Tolerant Mutual Exclusion Resource Reservation Protocol for Clustered Mobile Ad hoc Networks. , 2007, , .		3
107	A novel flow control scheme for best effort traffics in Network-on-Chip based on Weighted Max-Min-fairness. , 2008, , .		3
108	Proportionally-fair best effort flow control in network-on-chip architectures. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	3

#	Article	IF	Citations
109	An efficient and class based active Queue Management for next generation networks. , 2010, , .		3
110	A fair active queue management approach based on supply and demand model. , 2010, , .		3
111	A QoS based data dissemination protocol for wireless multimedia sensor networks. , 2010, , .		3
112	Design and simulation of OSPF routing protocol fuzzy model by two costraint: Bandwidth and queue size of router. , 2010, , .		3
113	Improved rate controlled reliable transport protocol (IRCRT) for wireless sensors networks. , 2010, , .		3
114	TCP Traffic Classification Using Relaxed Constraints Support Vector Machines. , 2013, , 129-139.		3
115	A comprehensive SPIT detection and prevention framework based on reputation model on call communication patterns. , 2014, , .		3
116	SIP-based vertical handover scheme with bicasting. , 2014, , .		3
117	A Distributed Cache Points Selection scheme for reliable transport protocols with intermediate caching in Wireless Sensor Networks. , 2014, , .		3
118	Overload mitigation mechanism for VoIP networks: a transport layer approach based on resource management. Transactions on Emerging Telecommunications Technologies, 2016, 27, 857-873.	2.6	3
119	Modeling SIP normal traffic to detect and prevent SIP-VoIP flooding attacks using fuzzy logic. , 2016, , .		3
120	Incentive cloud-based demand response program using game theory in smart grid. , 2016, , .		3
121	Anomalyâ€based DoS detection and prevention in SIP networks by modeling SIP normal traffic. International Journal of Communication Systems, 2018, 31, e3825.	1.6	3
122	Reactive caching of viral content in 5G networks. , 2020, , .		3
123	Max-Min-Fair Best Effort Flow Control in Network-on-Chip Architectures. Lecture Notes in Computer Science, 2008, , 436-445.	1.0	3
124	Energy efficient and congestion aware routing algorithms for Wireless Sensor Networks connected as Hypercube. , 2008, , .		2
125	Throughput-fairness tradeoff in Best Effort flow control for on-chip architectures. , 2009, , .		2
126	Proximity-Aware Resource Discovery Architecture in Peer-to-Peer Based Volunteer Computing System. , 2011, , .		2

#	Article	IF	Citations
127	TDMA Scheduling in Wireless Sensor Network Using Artificial Immune System. Advances in Intelligent and Soft Computing, 2011, , 175-185.	0.2	2
128	Probability based hop selection approach for resource control in Wireless Sensor Network. , 2012, , .		2
129	New method for evaluating anti-SPIT in VoIP networks. , 2013, , .		2
130	Monitoring Approach for Detection Compromise Attacks in Smart Meter. , 2013, , .		2
131	Fuzzy TADR: A fuzzy extension to TADR algorithm for congestion control in wirless sensor network. , 2014, , .		2
132	An Optimal Spatial and Temporal Charging Schedule for Electric Vehicles in Smart Grid. , 2018, , .		2
133	Design, implementation and performance evaluation of a proactive overload control mechanism for networks of SIP servers. Telecommunication Systems, 2018, 67, 309-322.	1.6	2
134	A new FLC based model for Differentiated Services. , 0, , .		1
135	Improving the loss performance of random early detection gateway using fuzzy logic control. , 0, , .		1
136	A modified random early detection algorithm: Fuzzy logic based approach. Journal of Communications and Networks, 2005, 7, 337-352.	1.8	1
137	A Conqueror Traffic Based Ranking Metrics Heuristic for Assigning Synthetically Generated Traffic Matrices to a Topology. , 2007, , .		1
138	Three Dimension QoS Deviation based Scheduling in Adaptive Wireless Networks. International Conference on Advanced Networking and Applications, 2007, , .	0.0	1
139	A Novel Congestion Control Scheme in Network-on-Chip Based on Best Effort Delay-Sum Optimization. Parallel Architectures, Algorithms and Networks (I-SPAN), Proceedings of the International Symposium on, 2008, , .	0.0	1
140	Best Effort Flow Control in Network-on-Chip. Communications in Computer and Information Science, 2008, , 990-993.	0.4	1
141	A fair routing protocol using generic utility based approach in Wireless Sensor Networks. , 2009, , .		1
142	Extracting membership functions by ACS algorithm without specifying actual minimum support. , 2010, , .		1
143	Real time demand response using renewable energy resources and energy storage in smart consumers. , 2013, , .		1
144	Fuzzy logic overload control in Asterisk proxy. , 2013, , .		1

#	Article	IF	Citations
145	VoIP performance comparison in wireless networks with different encryption methods. , 2014, , .		1
146	SESRT: Score based Event to Sink Reliable Transport in wireless sensor networks. , 2014, , .		1
147	An anomaly based VoIP DoS attack detection and prevention method using fuzzy logic. , 2016, , .		1
148	A Survey of Different SPIT Mitigation Methods and a Presentation of a Comprehensive SPIT Detection Framework. International Journal of Machine Learning and Computing, 2014, 4, 188-193.	0.8	1
149	SIP Header based Feature Extraction for SPIT Attacks in a Comprehensive ANTI-SPIT Framework. , 2011, , .		1
150	FACT: A New Fuzzy Adaptive Clustering Technique. Lecture Notes in Computer Science, 2006, , 588-594.	1.0	0
151	Optimizing Network Routing to Minimize Congestion, Using the Conqueror Traffic Based Synthetically Generated Traffic Matrices. , 2008, , .		0
152	Fuzzy controller design for proportional loss differentiation services. , 2009, , .		0
153	Proportionally fair flow control mechanism for best effort traffic in network-on-chip architectures. International Journal of Parallel, Emergent and Distributed Systems, 2010, 25, 345-362.	0.7	0
154	A learning based protocol for bidirectional congestion control in wireless sensor network. , 2010, , .		0
155	FUMOR: FUzzy Multi-hOp Routing for Wireless Sensor Network. , 2011, , .		0
156	Priority based, adaptive queuing for differentiating services in IP based networks. , 2012, , .		0
157	A blocking probability reduction method in path computation schemes for inter domain networks. , 2012, , .		0
158	Constraint-based path selection algorithms for minimizing blockage in multi domain networks. , 2012, , .		0
159	Optimum routing and scheduling for estimation in wireless sensor networks. , 2012, , .		0
160	Differentiating services with dynamic, QoS-aware queuing. , 2012, , .		0
161	Overload control in Asterisk proxy: Implementation and evaluation. , 2013, , .		0
162	An AQM-support congestion control for SCTP multi-homing (QCC-SCTP). , 2013, , .		0

#	Article	IF	Citations
163	An efficient privacy preserving scheme of high frequency reports for secure smart grid communications. , 2013, , .		0
164	AN ENERGY-EFFICIENT DEADLINE-BASED DATA GATHERING ALGORITHM IN HIERARCHICAL WSN WITH MOBILE SINK. Journal of Interconnection Networks, 2013, 14, 1350009.	0.6	0
165	Implementing state distribution model in asterisk server. , 2014, , .		0
166	A cloud-based open automated demand response protocol with AMI support. , 2017, , .		0
167	Implementation and evaluation of OpenADR standard with AMI support in cloud computing. , 2017, , .		0
168	Performance evaluation of CoAP proxy virtualisation in cloud‐assisted sensor networks. IET Wireless Sensor Systems, 2020, 10, 117-125.	1.3	0
169	A Proportional Jitter Scheduling and Buffer Management Algorithm for Differentiated Services Networks. Journal of Networks, 2008, 3, .	0.4	0
170	NEW CLUSTERING SCHEMES FOR WIRELESS SENSOR NETWORKS. IIUM Engineering Journal, 2010, 11, 51-69.	0.5	0
171	A New Clustering Algorithm for Multihop Wireless Sensor Networks. , 2011, , .		0
172	A Congestion Control Mechanism for WSN in Nonstationary Q-Model Environment using Learning Automata. , 2011, , .		0
173	The Overload Reduction in SIP Servers through Exact Regulation of the Retransmission Timer of the Invite Message. Journal of Computer and Communications, 2013, 01, 7-16.	0.6	0
174	IRTP: Improved Reliable Transport Protocol for Wireless Sensor Networks. Communications in Computer and Information Science, 2014, , 52-65.	0.4	0
175	A New Framework for Increasing the Sustainability of Infrastructure Measurement of Smart Grid. Kiyfiyyat Va Bahrah/varÄ«-i á¹£anÌ'at-i Barq-i ÄªrÄn, 2020, 8, 10-21.	0.1	0