Pascal Lorenz

List of Publications by Year
in descending order

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Version: 2024-02-01

174	3,160	218381	205818
papers	citations	26 h-index	48 g-index

179	179	179	2944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detecting Compromised IoT Devices Through XGBoost. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15392-15399.	4.7	3
2	Private blockchain-envisioned drones-assisted authentication scheme in IoT-enabled agricultural environment. Computer Standards and Interfaces, 2022, 80, 103567.	3.8	54
3	Crossâ€layered energy optimization with MAC protocol based routing protocol in clustered wireless sensor network in internet of things applications. International Journal of Communication Systems, 2022, 35, .	1.6	6
4	A Survey of Outlier Detection Techniques in IoT: Review and Classification. Journal of Sensor and Actuator Networks, 2022, 11, 4.	2.3	38
5	Towards Secure Searchable Electronic Health Records Using Consortium Blockchain. Network, 2022, 2, 239-256.	1.5	13
6	Lightweight Blockchain-Based Scheme to Secure Wireless M2M Area Networks. Future Internet, 2022, 14, 158.	2.4	6
7	Multi-Constrained and Edge-Enabled Selection of UAV Participants in Federated Learning Process. Electronics (Switzerland), 2022, 11, 2119.	1.8	7
8	Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. IEEE Internet of Things Journal, 2021, 8, 407-417.	5.5	4
9	Leveraging Communicating UAVs for Emergency Vehicle Guidance in Urban Areas. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1070-1082.	3.2	73
10	A New and Efficient Scheme for Improving the Digitized Chaotic Systems From Dynamical Degradation. IEEE Access, 2021, 9, 88997-89008.	2.6	5
11	MWCSGAâ€"Multi Weight Chicken Swarm Based Genetic Algorithm for Energy Efficient Clustered Wireless Sensor Network. Sensors, 2021, 21, 791.	2.1	27
12	Deployment Strategies of Soil Monitoring WSN for Precision Agriculture Irrigation Scheduling in Rural Areas. Sensors, 2021, 21, 1693.	2.1	55
13	New Protocol and Architecture for a Wastewater Treatment System Intended for Irrigation. Applied Sciences (Switzerland), 2021, 11, 3648.	1.3	5
14	A novel cryptosystem based on DNA cryptography and randomly generated mealy machine. Computers and Security, 2021, 104, 102160.	4.0	19
15	In.IoTâ€"A New Middleware for Internet of Things. IEEE Internet of Things Journal, 2021, 8, 7902-7911.	5.5	21
16	RPL rank basedâ€attack mitigation scheme in IoT environment. International Journal of Communication Systems, 2021, 34, e4917.	1.6	3
17	Identifying Misbehaving Greedy Nodes in IoT Networks. Sensors, 2021, 21, 5127.	2.1	5
18	Block-CLAP: Blockchain-Assisted Certificateless Key Agreement Protocol for Internet of Vehicles in Smart Transportation. IEEE Transactions on Vehicular Technology, 2021, 70, 8092-8107.	3.9	38

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19	OLPâ€"A RESTful Open Low-Code Platform. Future Internet, 2021, 13, 249.	2.4	9
20	Cluster-Based Communication Protocol and Architecture for a Wastewater Purification System Intended for Irrigation. IEEE Access, 2021, 9, 142374-142389.	2.6	7
21	Security Challenges for Light Emitting Systems. Future Internet, 2021, 13, 276.	2.4	0
22	Node Localization in WSN and IoT Using Harris Hawks Optimization Algorithm. , 2021, , .		2
23	Autonomous Energy Management System Achieving Piezoelectric Energy Harvesting in Wireless Sensors. Mobile Networks and Applications, 2020, 25, 794-805.	2.2	12
24	A belief function-based forecasting link breakage indicator for VANETs. Wireless Networks, 2020, 26, 2433-2448.	2.0	5
25	BRT: Bus-Based Routing Technique in Urban Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4550-4562.	4.7	28
26	U2RV: UAVâ€assisted reactive routing protocol for VANETs. International Journal of Communication Systems, 2020, 33, e4104.	1.6	34
27	Multi-Agent-Based Modeling for Underground Pipe Health and Water Quality Monitoring for Supplying Quality Water. International Journal of Intelligent Information Technologies, 2020, 16, 52-79.	0.5	4
28	DNA computing and table based data accessing in the cloud environment. Journal of Network and Computer Applications, 2020, 172, 102835.	5.8	21
29	Security Against Rank Attack in RPL Protocol. IEEE Network, 2020, 34, 133-139.	4.9	39
30	DronAway: A Proposal on the Use of Remote Sensing Drones as Mobile Gateway for WSN in Precision Agriculture. Applied Sciences (Switzerland), 2020, 10, 6668.	1.3	16
31	Blockchain-Envisioned Secure Data Delivery and Collection Scheme for 5G-Based IoT-Enabled Internet of Drones Environment. IEEE Transactions on Vehicular Technology, 2020, 69, 9097-9111.	3.9	143
32	Performance comparison of programming languages for Internet of Things middleware. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3891.	2.6	3
33	On the Design of Conditional Privacy Preserving Batch Verification-Based Authentication Scheme for Internet of Vehicles Deployment. IEEE Transactions on Vehicular Technology, 2020, 69, 5535-5548.	3.9	89
34	Trust Management Scheme Based on Hybrid Cryptography for Secure Communications in VANETs. IEEE Transactions on Vehicular Technology, 2020, 69, 5232-5243.	3.9	55
35	Intelligent Technique Based on Enhanced Metaheuristic for Optimization Problem in Internet of Things and Wireless Sensor Network. International Journal of Grid and High Performance Computing, 2020, 12, 17-42.	0.7	5
36	IoT-Based Smart Irrigation Systems: An Overview on the Recent Trends on Sensors and IoT Systems for Irrigation in Precision Agriculture. Sensors, 2020, 20, 1042.	2.1	321

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37	MONET Special Issue on Towards Future Ad Hoc Networks: Technologies and Applications (I). Mobile Networks and Applications, 2020, 25, 756-759.	2.2	1
38	Divide and Conquer-based Attack against RPL Routing Protocol. , 2020, , .		1
39	SEARCH: An SDN-Enabled Approach for Vehicle Path-Planning. IEEE Transactions on Vehicular Technology, 2020, 69, 14523-14536.	3.9	33
40	An Enhanced Bat Algorithm for Parallel Localization Based on a Mobile Beacon Sensor in Wireless Sensor Networks. Lecture Notes in Networks and Systems, 2020, , 43-61.	0.5	1
41	MsM: A microservice middleware for smart WSN-based IoT application. Journal of Network and Computer Applications, 2019, 144, 138-154.	5.8	32
42	Whale Optimization Approach for Optimization Problem In Distributed Wireless Sensor Network. , 2019, , .		6
43	Moth Flame Optimization Algorithm Range-Based for Node Localization Challenge in Decentralized Wireless Sensor Network. International Journal of Distributed Systems and Technologies, 2019, 10, 82-109.	0.6	13
44	ECaD: Energyâ€efficient routing in flying ad hoc networks. International Journal of Communication Systems, 2019, 32, e4156.	1.6	64
45	Channel Busyness Based Multipath Load Balancing Routing Protocol for Ad hoc Networks. IEEE Network, 2019, 33, 118-125.	4.9	19
46	Routing in Flying Ad Hoc Networks: Survey, Constraints, and Future Challenge Perspectives. IEEE Access, 2019, 7, 81057-81105.	2.6	168
47	Practical Design of a WSN to Monitor the Crop and its Irrigation System. Network Protocols and Algorithms, 2019, 10, 35.	1.0	6
48	WRE-OLSR, a new scheme for enhancing the lifetime within ad hoc and wireless sensor networks. International Journal of Communication Systems, 2019, 32, e3975.	1.6	6
49	Cognitive Radio Enabled Cache Map-and-Route Using Context Mapping and Decision Making Approach in Software Defined Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5849-5858.	3.9	1
50	The Internet of Things for Smart Cities: Technologies and Applications. IEEE Network, 2019, 33, 4-5.	4.9	92
51	A proposal for bridging application layer protocols to HTTP on IoT solutions. Future Generation Computer Systems, 2019, 97, 145-152.	4.9	34
52	UAV-Assisted Supporting Services Connectivity in Urban VANETs. IEEE Transactions on Vehicular Technology, 2019, 68, 3944-3951.	3.9	110
53	A secure communication model using lightweight Diffie-Hellman method in vehicular ad hoc networks. International Journal of Security and Networks, 2019, 14, 61.	0.1	2
54	A New AODV Based Forecasting Link Breakage Indicator for VANETs. , 2019, , .		3

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55	Anonymizing Communication in VANets by Applying I2P Mechanisms. , 2019, , .		2
56	Proactive Replication Scheme for Resilient Content Delivery in Software Defined Networks. , 2019, , .		1
57	Resource Allocation and Event Synchronisation Approach Based on Max-Plus Algebra for Cloud Computing. , 2019, , .		0
58	Multi-Physics Modeling and Numerical Analysis of Tubular Linear Switched Reluctance Motors. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 871-881.	1.5	4
59	New Path Centrality Based on Operator Calculus Approach for Wireless Sensor Network Deployment. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 162-173.	3.2	18
60	A Novel Bat Algorithm for Line-of-Sight Localization in Internet of Things and Wireless Sensor Network. Advances in Computational Intelligence and Robotics Book Series, 2019, , 213-239.	0.4	2
61	Guest Editorial Special Issue on Visual Signal Applications Over Networks. IEEE Systems Journal, 2018, 12, 10-11.	2.9	0
62	Self-organizing technique for improving coverage in connected mobile objects networks. Telecommunication Systems, 2018, 67, 179-193.	1.6	2
63	An effective Bat algorithm for node localization in distributed wireless sensor network. Security and Privacy, 2018, 1, e7.	1.9	29
64	A Systematic Review of mHealth apps Evaluations for Cardiac Issues. Proceedings (mdpi), 2018, 2, .	0.2	2
65	Performance Evaluation of IoT Middleware through Multicriteria Decision-Making. , 2018, , .		3
66	E-RPL: A Routing Protocol for IoT Networks. , 2018, , .		12
67	Smart and selfâ€organised routing algorithm for efficient IoT communications in smart cities. IET Wireless Sensor Systems, 2018, 8, 305-312.	1.3	12
68	Special issue on amateur drone and UAV communications and networks. Journal of Communications and Networks, 2018, 20, 429-433.	1.8	8
69	Network Life Time maximization of the AOMDV Protocol Using Nodes Energy Variation. Network Protocols and Algorithms, 2018, 10, 73.	1.0	6
70	Guest Editorial: Next Generation Wireless Computing Systems. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 551-552.	3.2	0
71	AI for Network Traffic Control. IEEE Network, 2018, 32, 6-7.	4.9	3
72	Game theory based distributed clustering approach to maximize wireless sensors network lifetime. Journal of Network and Computer Applications, 2018, 123, 80-88.	5.8	30

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73	Decentralized and Scalable Privacy-Preserving Authentication Scheme in VANETs. IEEE Transactions on Vehicular Technology, 2018, 67, 8647-8655.	3.9	73
74	Low Energy and Location Based Clustering Protocol for Wireless Sensor Network. , 2018, , .		6
75	Evidence theoryâ€based framework for improving automation in home automation system. International Journal of Communication Systems, 2018, 31, e3791.	1.6	0
76	A framework to identify knowledge actor roles in enterprise social networks. Journal of Knowledge Management, 2017, 21, 817-838.	3.2	21
77	S-ROGUE: Routing protocol for unmanned systems on the surface. , 2017, , .		0
78	Bio Inspired Routing Algorithm and Efficient Communications within IoT. IEEE Network, 2017, 31, 74-79.	4.9	36
79	Operator calculus approach for route optimizing and enhancing wireless sensor network. Journal of Network and Computer Applications, 2017, 97, 1-10.	5.8	8
80	Integration of energy aware WSNs in cloud computing using NDN approach. , 2017, , .		2
81	WeiSTARS: A weighted trust-aware relay selection scheme for VANET. , 2017, , .		11
82	Efficient wireless mobile networks communications applied to e-health. , 2017, , .		3
83	On the performance of adaptive coding schemes for energy efficient and reliable clustered wireless sensor networks. Ad Hoc Networks, 2017, 64, 99-111.	3.4	19
84	Efficient medium access protocol for Internet of things applications. International Journal of Communication Systems, 2017, 30, e3227.	1.6	2
85	A Hybrid Adaptive Coding and Decoding Scheme for Multi-hop Wireless Sensor Networks. Wireless Personal Communications, 2017, 94, 3017-3033.	1.8	20
86	Load Balancing Algorithm for Efficient and Reliable IoT Communications within E-Health Environment. , 2017, , .		13
87	Delay Aware Secure Hashing for Opportunistic Message Forwarding in Internet of Things. , 2017, , .		5
88	Distinction between data losses for better communications in iot. , 2017, , .		2
89	Metaheuristic RSSI based for node localization in distributed wireless sensor network. , 2017, , .		8
90	Black hole attack detection and ignoring in OLSR protocol. International Journal of Trust Management in Computing and Communications, 2017, 4, 75.	0.1	5

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91	AODV-UI with Malicious Node Detection and Removal for Public MANET. Journal of Communications Software and Systems, 2017, 8, 110.	0.6	2
92	An Android based new German eID solution for policy making processes. Security and Communication Networks, 2016, 9, 1271-1284.	1.0	3
93	Data Fusion for a Forecasting Link State Indicator in VANETs. , 2016, , .		4
94	Weighted Probabilistic Next-Hop Forwarder Decision-Making in VANET Environments. , 2016, , .		15
95	Application of a New Energy-Efficient Protocol for MAC Layer for E-Health. , 2016, , .		0
96	EQ-AODV: Energy and QoS supported AODV for better performance in WMSNs. , 2016, , .		19
97	Topology control by controlling mobility for coverage in wireless sensor networks. , 2016, , .		3
98	Search based software engineering on evolutionary multi-objective approach. , 2016, , .		1
99	A study of users' acceptance and satisfaction of emergency call service. International Journal of Communication Systems, 2016, 29, 2279-2291.	1.6	4
100	A Framework to Analyze Enterprise Social Network Data. Advances in Business Information Systems and Analytics Book Series, 2016, , 84-107.	0.3	5
101	International Workshop on Future Internet and Smart Networks. Studies in Computational Intelligence, 2016, , 461-461.	0.7	0
102	User authentication scheme preserving anonymity for ubiquitous devices. Security and Communication Networks, 2015, 8, 3131-3141.	1.0	11
103	Design of Authentication Model Preserving Intimacy and Trust in Intelligent Environments. Network Protocols and Algorithms, 2015, 7, 64.	1.0	4
104	ES-WSN: Energy Efficient by Switching between Roles of Nodes in WSNs. , 2015, , .		10
105	Impact of sensor nodes scaling and velocity on handover mechanisms for healthcare wireless sensor networks with mobility support. Computers in Industry, 2015, 69, 92-104.	5.7	9
106	Impact of Realistic Simulation on the Evaluation of Mobile <italic>Ad Hoc</italic> Routing Protocols. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 317-334.	3.2	3
107	MAC layer handover mechanism for continuous communication support in healthcare mobile wireless sensor networks. Telecommunication Systems, 2015, 60, 119-132.	1.6	12
108	A combined path selection and admission control scheme for IPTV in IEEE 802.16j MMR networks. , 2015, , .		0

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109	Energy evaluation of AID protocol in Mobile Ad Hoc Networks. Journal of Network and Computer Applications, 2015, 58, 287-293.	5.8	8
110	Security and performance enhancement of AODV routing protocol. International Journal of Communication Systems, 2015, 28, 2003-2019.	1.6	14
111	Performance analysis of evolutionary multi-objective based approach for deployment of wireless sensor network with the presence of fixed obstacles. , 2014, , .		6
112	Evolutionary multi-objective based approach for wireless sensor network deployment. , 2014, , .		17
113	Mixed positioning system guaranteeing the continuity of indoor/outdoor tracking. , 2014, , .		1
114	Energy efficient in medical ad hoc sensors network by exploiting routing protocols. , 2014, , .		6
115	A novel predictive link state indicator for ad-hoc networks. , 2014, , .		7
116	An optimization calculation method: the positioning of passenger's mobility based on augmented reality. , 2014, , .		0
117	Adaptive scheduling mechanism for IPTV over WiMAX IEEE 802.16j networks. International Journal of Communication Systems, 2014, 27, 1009-1019.	1.6	7
118	Performance estimation of AODV variant with trust mechanism. , 2014, , .		3
119	Performance analysis of optimized trust AODV using ant algorithm. , 2014, , .		4
120	A decentralized approach for information dissemination in Vehicular Ad hoc Networks. Journal of Network and Computer Applications, 2014, 46, 154-165.	5.8	13
121	Foreword by Guest Editors for the Special Issue on the 2012 ICUFN Conference. Wireless Personal Communications, 2014, 74, 1017-1019.	1.8	0
122	Energy-efficient power allocation algorithms for mobile wireless sensor networks. International Journal of Sensor Networks, 2014, 16, 199.	0.2	6
123	Incidence of the Improvement of the Interactions between MAC and Transport Protocols on MANET Performance. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 275-292.	0.3	4
124	QoS and QoE in the Next Generation Networks and Wireless Networks. Communications in Computer and Information Science, 2014, , 3-16.	0.4	0
125	Increasing endâ€toâ€end fairness over IEEE 802.11eâ€based wireless mesh networks. International Journal of Communication Systems, 2013, 26, 1-12.	1.6	8
126	Performance comparison of modified AODV in reference point group mobility and random waypoint mobility models. , 2013, , .		13

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127	Comparison and performance analysis of AntNet and distance vector routing protocol in telecommunication networks Case study : XYZ company. , 2013, , .		0
128	Secure AODV Routing Protocol Based on Trust Mechanism. Signals and Communication Technology, 2013, , 81-105.	0.4	7
129	Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networksâ€“Handover Issues. IEEE Sensors Journal, 2013, 13, 4339-4348.	2.4	27
130	Improving IPTV Forwarding Masechanism in IEEE 802.16j MMR Networks Based on Aggregation. ETRI Journal, 2013, 35, 234-244.	1.2	2
131	TCP Performance in Mobile Ad hoc Networks. Network Protocols and Algorithms, 2013, , 117.	1.0	8
132	A Cross Layer Solution for Better Interactions Between Routing and Transport Protocols in MANET. Journal of Computing and Information Technology, 2013, 21, 137.	0.2	13
133	Intra-mobility handover enhancement in healthcare wireless sensor networks. , 2012, , .		13
134	A new approach for energy efficiency in MANET based on the OLSR protocol. International Journal of Wireless and Mobile Computing, 2012, 5, 292.	0.1	12
135	Toward ubiquitous mobility solutions for body sensor networks on healthcare. IEEE Communications Magazine, 2012, 50, 108-115.	4.9	192
136	Communication protocols and algorithms for the smart grid [Guest Editorial]. , 2012, 50, 126-127.		4
137	Collaborating Using Intergroup Communications in Group-Based Wireless Sensor Networks: Another Way for Saving Energy. Lecture Notes in Computer Science, 2012, , 85-93.	1.0	2
138	Introduction to special issue: ICISA 2010. Cluster Computing, 2012, 15, 1-1.	3.5	3
139	Modelization of Temporal Mechanisms for Sensors Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 111-122.	0.2	2
140	A Group-Based Protocol for Improving Energy Distribution in Smart Grids. , 2011, , .		3
141	A Novel Scheme for a Fast Channel Change in Multicast IPTV System. , 2011, , .		2
142	An adaptive approach for information dissemination in Vehicular Ad hoc Networks. Journal of Network and Computer Applications, 2011, 34, 1971-1978.	5.8	159
143	Location-Aided Routing Using Image Representation for Wireless Sensor Networks. , 2011, , .		0
144	Intra-body Temperature Monitoring Using a Biofeedback Solution. , 2010, , .		9

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145	Prioritizing Data Processing in Wireless Sensor Networks. , 2010, , .		1
146	Wireless communication technologies for ITS applications [Topics in Automotive Networking. , 2010, 48, 156-162.		220
147	Using Matrix Convolutions and Clustering for Energy Efficient Routing Algorithm in Sensor Networks. , 2010, , .		1
148	Dynamic Feedback for Service Reputation Updates. , 2010, , .		0
149	Primitive Operations for Prioritized Data Reduction in Wireless Sensor Network Nodes. , 2009, , .		3
150	A Novel Channel Switching Scenario in Multicast IPTV Networks. , 2009, , .		15
151	Using Image Processing Algorithms for Energy Efficient Routing Algorithm in Sensor Networks. , 2009, , .		2
152	An Enhanced Framework for Web Recommenders. , 2009, , .		1
153	A Clustering-Based Scalable Key Management Protocol for Ad Hoc Networks. , 2009, , .		1
154	An Adaptive Framework for Diagnosis Validation. , 2009, , .		1
155	Fairness in Double Star Ad Hoc Networks. , 2009, , .		0
156	LAR Image Transmission over Fading Channels: A Hierarchical Protection Solution. , 2009, , .		2
157	Determining Optimal Orbital Path of a Nanosatellite for Efficient Exploitation of the Solar Energy Captured. , 2009, , .		2
158	An efficient heterogeneous key management approach for secure multicast communications in ad hoc networks. Telecommunication Systems, 2008, 37, 29-36.	1.6	5
159	An Efficient Multicast Tree Aggregation Mechanism for Ad Hoc Networks. , 2008, , .		2
160	A Service Based Clustering Approach for Pervasive Computing in Ad Hoc Networks. , 2008, , .		1
161	Quality of service based routing algorithms for heterogeneous networks [Guest editorial]. , 2007, 45, 65-66.		14
162	GUEST EDITORIAL - WIRELESS BROADBAND ACCESS: WIMAX AND BEYOND. , 2007, 45, 122-123.		0

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163	Wireless Broadband Access: WiMAX and Beyond [Guest Editorial]. , 2007, 45, 60-61.		5
164	Connectivity, Energy and Mobility Driven Clustering Algorithm for Mobile Ad Hoc Networks. , 2007, , .		34
165	Heterogeneous key management protocol for secure group communications in MANETS. , 2007, , .		0
166	A Scalable Middleware for Creating and Managing Autonomous Overlays. , 2007, , .		1
167	Energy-efficient network protocols and algorithms for wireless sensor networks. International Journal of Communication Systems, 2007, 20, 743-746.	1.6	2
168	Autonomous, scalable, and resilient overlay infrastructure. Journal of Communications and Networks, 2006, 8, 378-390.	1.8	2
169	Energy Saving and Connectivity Tradeoff by Adaptative Transmission Range in 802.11g MANETs. , 2006, , .		5
170	An efficient QoS routing algorithm for solving MCP in ad hoc networks. Telecommunication Systems, 2006, 33, 255-267.	1.6	3
171	Performance Implications of Meshing Degree for Optical Burst Switched Networks Using One-Way Resource Reservation Protocols. Telecommunication Systems, 2005, 30, 35-47.	1.6	7
172	A SELF ORGANIZING ALGORITHM FOR AD HOC NETWORKS. , 2005, , .		3
173	Performance Assessment of Optical Burst Switching Ring and Chordal Ring Networks. Telecommunication Systems, 2004, 27, 133-149.	1.6	5
174	A hybrid Harrison Hawk optimization based on differential evolution for the node localization problem in IoT networks. International Journal of Communication Systems, 0, , .	1.6	1