Pietro Manzoni

List of Publications by Year
in descending order

330	5,967	117453	133063
papers	citations	34 h-index	59 g-index

334	334	334	4792
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A survey and comparative study of simulators for vehicular ad hoc networks (VANETs). Wireless Communications and Mobile Computing, 2011, 11, 813-828.	0.8	232
2	Emergency Services in Future Intelligent Transportation Systems Based on Vehicular Communication Networks. IEEE Intelligent Transportation Systems Magazine, 2010, 2, 6-20.	2.6	206
3	An overview of vertical handover techniques: Algorithms, protocols and tools. Computer Communications, 2011, 34, 985-997.	3.1	183
4	Routing mechanisms for mobile ad hoc networks based on the energy drain rate. IEEE Transactions on Mobile Computing, 2003, 2, 161-173.	3.9	162
5	Trust Management for Vehicular Networks: An Adversary-Oriented Overview. IEEE Access, 2016, 4, 9293-9307.	2.6	155
6	Providing accident detection in vehicular networks through OBD-II devices and Android-based smartphones. , 2011, , .		148
7	ANEJOS: a Java based simulator for ad hoc networks. Future Generation Computer Systems, 2001, 17, 573-583.	4.9	123
8	Evaluating How Smartphone Contact Tracing Technology Can Reduce the Spread of Infectious Diseases: The Case of COVID-19. IEEE Access, 2020, 8, 99083-99097.	2.6	115
9	DTN Protocols for Vehicular Networks: An Application Oriented Overview. IEEE Communications Surveys and Tutorials, 2015, 17, 868-887.	24.8	114
10	CityMob: A Mobility Model Pattern Generator for VANETs. , 2008, , .		108
11	Road Side Unit Deployment: A Density-Based Approach. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 30-39.	2.6	108
12	Flying ad-hoc network application scenarios and mobility models. International Journal of Distributed Sensor Networks, 2017, 13, 155014771773819.	1.3	107
13	A performance comparison of energy consumption for Mobile Ad Hoc Network routing protocols. , 0, , .		104
14	A comparative evaluation of AMQP and MQTT protocols over unstable and mobile networks. , 2015, , .		99
15	Breaking the Vehicular Wireless Communications Barriers: Vertical Handover Techniques for Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5878-5890.	3.9	87
16	Crowdsensing in Smart Cities: Overview, Platforms, and Environment Sensing Issues. Sensors, 2018, 18, 460.	2.1	84
17	Automatic Accident Detection: Assistance Through Communication Technologies and Vehicles. IEEE Vehicular Technology Magazine, 2012, 7, 90-100.	2.8	80
18	Improving Selfish Node Detection in MANETs Using a Collaborative Watchdog. IEEE Communications Letters, 2012, 16, 642-645.	2.5	79

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19	CoCoWa: A Collaborative Contact-Based Watchdog for Detecting Selfish Nodes. IEEE Transactions on Mobile Computing, 2015, 14, 1162-1175.	3.9	76
20	Simulating Opportunistic Networks: Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2018, 20, 1547-1573.	24.8	76
21	T-VNets: A novel trust architecture for vehicular networks using the standardized messaging services of ETSI ITS. Computer Communications, 2016, 93, 68-83.	3.1	73
22	Drivingstyles: a mobile platform for driving styles and fuel consumption characterization. Journal of Communications and Networks, 2017, 19, 162-168.	1.8	71
23	Evaluating the impact of a novel message dissemination scheme for vehicular networks using real maps. Transportation Research Part C: Emerging Technologies, 2012, 25, 61-80.	3.9	62
24	Evaluating the Usefulness of Watchdogs for Intrusion Detection in VANETs. , 2010, , .		61
25	DrivingStyles: A smartphone application to assess driver behavior. , 2013, , .		60
26	Modeling and Characterization of Traffic Flows in Urban Environments. Sensors, 2018, 18, 2020.	2.1	56
27	A System for Automatic Notification and Severity Estimation of Automotive Accidents. IEEE Transactions on Mobile Computing, 2014, 13, 948-963.	3.9	55
28	A Centralized Route-Management Solution for Autonomous Vehicles in Urban Areas. Electronics (Switzerland), 2019, 8, 722.	1.8	53
29	Accurate Landing of Unmanned Aerial Vehicles Using Ground Pattern Recognition. Electronics (Switzerland), 2019, 8, 1532.	1.8	53
30	Realistic Radio Propagation Models (RPMs) for VANET Simulations. , 2009, , .		52
31	Power-aware routing based on the energy drain rate for mobile ad hoc networks. , 0, , .		50
32	Impact of mobility on TCP/IP: an integrated performance study. IEEE Journal on Selected Areas in Communications, 1995, 13, 858-867.	9.7	49
33	Sensing Traffic Density Combining V2V and V2I Wireless Communications. Sensors, 2015, 15, 31794-31810.	2.1	48
34	Computer Simulations of VANETs Using Realistic City Topologies. Wireless Personal Communications, 2013, 69, 639-663.	1.8	46
35	Mobile crowdsensing approaches to address the COVIDâ€19 pandemic in Spain. IET Smart Cities, 2020, 2, 58-63.	1.6	46
36	VEACON: A Vehicular Accident Ontology designed to improve safety on the roads. Journal of Network and Computer Applications, 2012, 35, 1891-1900.	5.8	45

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37	Securing Warning Message Dissemination in VANETs Using Cooperative Neighbor Position Verification. IEEE Transactions on Vehicular Technology, 2015, 64, 2538-2550.	3.9	44
38	Accurate Ambient Noise Assessment Using Smartphones. Sensors, 2017, 17, 917.	2.1	42
39	RTAD: A real-time adaptive dissemination system for VANETs. Computer Communications, 2015, 60, 53-70.	3.1	41
40	UbiqMuseum: A Bluetooth and Java Based Context-Aware System for Ubiquitous Computing. Wireless Personal Communications, 2006, 38, 187-202.	1.8	40
41	Evaluating the Effectiveness of COVID-19 Bluetooth-Based Smartphone Contact Tracing Applications. Applied Sciences (Switzerland), 2020, 10, 7113.	1.3	39
42	QoS Support in MANETs: a Modular Architecture Based on the IEEE 802.11e Technology. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 678-692.	5.6	38
43	Prototyping an automatic notification scheme for traffic accidents in vehicular networks. , 2011, , .		38
44	Evaluation of flooding schemes for real-time video transmission in VANETs. Ad Hoc Networks, 2015, 24, 3-20.	3.4	38
45	A novel approach for traffic accidents sanitary resource allocation based on multi-objective genetic algorithms. Expert Systems With Applications, 2013, 40, 323-336.	4.4	35
46	An Infrastructureless Approach to Estimate Vehicular Density in Urban Environments. Sensors, 2013, 13, 2399-2418.	2.1	35
47	OLSR vs DSR: A comparative analysis of proactive and reactive mechanisms from an energetic point of view in wireless ad hoc networks. Computer Communications, 2008, 31, 3843-3854.	3.1	34
48	A V2I-Based Real-Time Traffic Density Estimation System in Urban Scenarios. Wireless Personal Communications, 2015, 83, 259-280.	1.8	33
49	Handling mobility in IoT applications using the MQTT protocol. , 2015, , .		33
50	Reducing emergency services arrival time by using vehicular communications and Evolution Strategies. Expert Systems With Applications, 2014, 41, 1206-1217.	4.4	32
51	Workload models of VBR video traffic and their use in resource allocation policies. IEEE/ACM Transactions on Networking, 1999, 7, 387-397.	2.6	31
52	Assessing the Impact of a Realistic Radio Propagation Model on VANET Scenarios Using Real Maps. , 2010, , .		31
53	A distributed admission control system for MANET environments supporting multipath routing protocols. Microprocessors and Microsystems, 2007, 31, 236-251.	1.8	30
54	Evaluating the Impact of a Novel Warning Message Dissemination Scheme for VANETs Using Real City Maps. Lecture Notes in Computer Science, 2010, , 265-276.	1.0	30

#	Article	IF	Citations
55	Assessing the impact of driving behavior on instantaneous fuel consumption. , 2015, , .		30
56	A Street Broadcast Reduction Scheme (SBR) to Mitigate the Broadcast Storm Problem in VANETs. Wireless Personal Communications, 2011, 56, 559-572.	1.8	29
57	An efficient and robust content delivery solution for IEEE 802.11p vehicular environments. Journal of Network and Computer Applications, 2012, 35, 753-762.	5.8	29
58	V2X-d: A vehicular density estimation system that combines V2V and V2I communications. , 2013, , .		29
59	An Adaptive Anycasting Solution for Crowd Sensing in Vehicular Environments. IEEE Transactions on Industrial Electronics, 2015, 62, 7911-7919.	5.2	29
60	Experimental characterization of UAV-to-car communications. Computer Networks, 2018, 136, 105-118.	3.2	29
61	Evaluating Energy Consumption of Proactive and Reactive Routing Protocols in a MANET. International Federation for Information Processing, 2007, , 119-130.	0.4	29
62	A Fast Model for Evaluating the Detection of Selfish Nodes Using a Collaborative Approach in MANETs. Wireless Personal Communications, 2014, 74, 1099-1116.	1.8	28
63	An Intelligent Transportation System Application for Smartphones Based on Vehicle Position Advertising and Route Sharing in Vehicular Ad-Hoc Networks. Journal of Computer Science and Technology, 2018, 33, 249-262.	0.9	28
64	A Location-Aware Waypoint-Based Routing Protocol for Airborne DTNs in Search and Rescue Scenarios. Sensors, 2018, 18, 3758.	2.1	28
65	ArduSim: Accurate and real-time multicopter simulation. Simulation Modelling Practice and Theory, 2018, 87, 170-190.	2.2	28
66	An Adaptive System Based on Roadmap Profiling to Enhance Warning Message Dissemination in VANETs. IEEE/ACM Transactions on Networking, 2013, 21, 883-895.	2.6	27
67	A Realistic Simulation Framework for Vehicular Networks. , 2012, , .		27
68	A Survey on Smartphone-Based Crowdsensing Solutions. Mobile Information Systems, 2016, 2016, 1-26.	0.4	25
69	VACaMobil: VANET Car Mobility Manager for OMNeT++. , 2013, , .		24
70	MQTT-ST: a Spanning Tree Protocol for Distributed MQTT Brokers. , 2020, , .		24
71	Traffic Management as a Service: The Traffic Flow Pattern Classification Problem. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	22
72	A Discretized Approach to Air Pollution Monitoring Using UAV-based Sensing. Mobile Networks and Applications, 2018, 23, 1693-1702.	2.2	22

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73	Indoor Vehicles Geolocalization Using LoRaWAN. Future Internet, 2019, 11, 124.	2.4	22
74	GRCBox: Extending Smartphone Connectivity in Vehicular Networks. International Journal of Distributed Sensor Networks, 2015, 11, 478064.	1.3	22
75	CAOVA: A Car Accident Ontology for VANETs. , 2012, , .		21
76	Evaluating and Enhancing Information Dissemination in Urban Areas of Interest Using Opportunistic Networks. IEEE Access, 2018, 6, 32514-32531.	2.6	21
77	A distance vector routing protocol for VANET environment with Dynamic Frequency assignment. , 2011, , .		20
78	An Integral Model for Target Tracking Based on the Use of a WSN. Sensors, 2013, 13, 7250-7278.	2.1	20
79	Determining the Representative Factors Affecting Warning Message Dissemination in VANETs. Wireless Personal Communications, 2012, 67, 295-314.	1.8	19
80	On the impact of inter-UAV communications interference in the 2.4 GHz band. , 2017, , .		19
81	Evaluation of a technology-aware vertical handover algorithm based on the IEEE 802.21 standard. , 2011, , .		18
82	RITA: RIskâ€aware Trustâ€based Architecture for collaborative multiâ€hop vehicular communications. Security and Communication Networks, 2016, 9, 4428-4442.	1.0	18
83	Mobile Pollution Data Sensing Using UAVs. , 2015, , .		17
84	A Distributed Approach for Collision Avoidance between Multirotor UAVs Following Planned Missions. Sensors, 2019, 19, 2404.	2.1	17
85	Data Transmissions Using Hub Nodes in Vehicular Social Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1570-1585.	3.9	17
86	Three Dimensional UAV Positioning for Dynamic UAV-to-Car Communications. Sensors, 2020, 20, 356.	2.1	17
87	Power Characterization of a Bluetooth-based Wireless Node for Ubiquitous Computing. , 2006, , .		16
88	Supporting Scalable Video Transmission in MANETs through Distributed Admission Control Mechanisms. , 2010, , .		16
89	Towards realistic vehicular network simulation models. , 2012, , .		16
90	Measurement-based modelling of LTE performance in Dublin city. , 2016, , .		16

#	Article	IF	Citations
91	New approaches for characterizing inter-contact times in opportunistic networks. Ad Hoc Networks, 2016, 52, 160-172.	3.4	16
92	A Low-Cost and Low-Power Messaging System Based on the LoRa Wireless Technology. Mobile Networks and Applications, 2020, 25, 961-968.	2.2	16
93	A performance evaluation of warning message dissemination in 802.11p based VANETs. , 2009, , .		15
94	Black-Hole Attacks in P2P Mobile Networks Discovered through Bayesian Filters. Lecture Notes in Computer Science, 2010, , 543-552.	1.0	15
95	Evaluating UAV-to-Car Communications Performance: From Testbed to Simulation Experiments. , 2019, , .		15
96	A Markovian Agent Model for Fire Propagation in Outdoor Environments. Lecture Notes in Computer Science, 2010, , 131-146.	1.0	15
97	BlueMall. , 2008, , .		14
98	Evaluation of collaborative selfish node detection in MANETS and DTNs. , 2012, , .		14
99	Evaluating the Feasibility of Using Smartphones for ITS Safety Applications. , 2013, , .		14
100	An Analytical Model Based on Population Processes to Characterize Data Dissemination in 5G Opportunistic Networks. IEEE Access, 2018, 6, 1603-1615.	2.6	14
101	GRC-Sensing: An Architecture to Measure Acoustic Pollution Based on Crowdsensing. Sensors, 2018, 18, 2596.	2.1	14
102	3D Simulation Modeling of UAV-to-Car Communications. IEEE Access, 2019, 7, 8808-8823.	2.6	14
103	Wireless digital traffic signs of the future. IET Networks, 2019, 8, 74-78.	1.1	14
104	On the Interaction Between IEEE 802.11e and Routing Protocols in Mobile Ad-Hoc Networks. , 0, , .		13
105	Analysis of the Most Representative Factors Affecting Warning Message Dissemination in VANETs under Real Roadmaps. , 2011, , .		13
106	Identifying the Key Factors Affecting Warning Message Dissemination in VANET Real Urban Scenarios. Sensors, 2013, 13, 5220-5250.	2.1	13
107	An Architecture Offering Mobile Pollution Sensing with High Spatial Resolution. Journal of Sensors, 2016, 2016, 1-13.	0.6	13
108	A disruption tolerant architecture based on MQTT for IoT applications. , 2017, , .		13

#	Article	IF	Citations
109	Automatic system supporting multicopter swarms with manual guidance. Computers and Electrical Engineering, 2019, 74, 413-428.	3.0	13
110	Assessing the effectiveness of IEEE 802.11e in multi-hop mobile network environments. , 0, , .		12
111	Castadiva: A Test-Bed Architecture for Mobile AD HOC Networks. , 2007, , .		12
112	MACHU: A novel vertical handover algorithm for vehicular environments. , 2012, , .		12
113	Friendly-Sharing: Improving the Performance of City Sensoring through Contact-Based Messaging Applications. Sensors, 2016, 16, 1523.	2.1	12
114	Improving MQTT Data Delivery in Mobile Scenarios: Results from a Realistic Testbed. Mobile Information Systems, 2016, 2016, 1-11.	0.4	12
115	EcoSensor: Monitoring environmental pollution using mobile sensors. , 2016, , .		12
116	A methodology for measuring UAV-to-UAV communications performance. , 2017, , .		12
117	Evaluating the use of sub-gigahertz wireless technologies to improve message delivery in opportunistic networks. , 2017, , .		12
118	CupCarbon-Lab: An IoT emulator. , 2018, , .		12
119	Migration cost optimization for service provider legacy network migration to softwareâ€defined IPv6 network. International Journal of Network Management, 2021, 31, e2145.	1.4	12
120	A comparison of the performance of TCP-Reno and TCP-Vegas over MANETs. , 2006, , .		11
121	Trust-Aware Opportunistic Dissemination Scheme for VANET Safety Applications. , 2016, , .		11
122	Analytical evaluation of the performance of contact-Based messaging applications. Computer Networks, 2016, 111, 45-54.	3.2	11
123	Efficient and coordinated vertical takeoff of UAV swarms. , 2020, , .		11
124	Toward secure, efficient, and seamless reconfiguration of UAV swarm formations. , 2020, , .		11
125	Evolutionary gaming approach for decision making of Tierâ€3 Internet service provider networks migration to SoDIP6 networks. International Journal of Communication Systems, 2020, 33, e4399.	1.6	11
126	Optimising data diffusion while reducing local resources consumption in Opportunistic Mobile Crowdsensing. Pervasive and Mobile Computing, 2020, 67, 101201.	2.1	11

#	Article	IF	Citations
127	On the use and calculation of the Hurst parameter with MPEG videos data traffic. , 0, , .		10
128	A multi-platform programming interface for protocol development. , 2003, , .		10
129	Mitigating the impact of mobility on H.264 real-time video streams using multiple paths. Journal of Communications and Networks, 2004, 6, 387-396.	1.8	10
130	A QoS architecture for MANETs supporting real-time peer-to-peer multimedia applications. , 0, , .		10
131	Comprehensive Vehicular Networking Platform for V2I and V2V Communications within the Walkie-Talkie Project. International Journal of Distributed Sensor Networks, 2013, 9, 676850.	1.3	10
132	On the selection of optimal broadcast schemes in VANETs. , 2013, , .		10
133	Evaluating the Impact of Data Transfer Time in Contact-Based Messaging Applications. IEEE Communications Letters, 2015, 19, 1814-1817.	2.5	10
134	Using Real Traffic Data for ITS Simulation: Procedure and Validation. , 2016, , .		10
135	FSF: Friendship and selfishness forwarding for Delay Tolerant Networks. , 2016, , .		10
136	Adaptive Real-Time Predictive Collaborative Content Discovery and Retrieval in Mobile Disconnection Prone Networks. IEEE Access, 2018, 6, 32188-32206.	2.6	10
137	A Forward Collision Warning System for Smartphones Using Image Processing and V2V Communication. Sensors, 2018, 18, 2672.	2.1	10
138	A LoRa-based protocol for connecting IoT edge computing nodes to provide small-data-based services. Digital Communications and Networks, 2022, 8, 257-266.	2.7	10
139	Using Data Mining and Vehicular Networks to Estimate the Severity of Traffic Accidents. Advances in Intelligent Systems and Computing, 2012, , 37-46.	0.5	10
140	UAV Mobility model for dynamic UAV-to-car communications in 3D environments. Ad Hoc Networks, 2020, 107, 102193.	3.4	10
141	Evaluating Bluetooth Performance as the Support for Context-Aware Applications. Telecommunication Systems, 2005, 28, 333-347.	1.6	9
142	Testing Applications in MANET Environments through Emulation. Eurasip Journal on Wireless Communications and Networking, 2010, 2009, .	1.5	9
143	Accurate detection of black holes in MANETs using collaborative bayesian watchdogs. , 2012, , .		9
144	Evaluating H.265 real-time video flooding quality in highway V2V environments. , 2014, , .		9

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145	Hierarchical adaptive trust establishment solution for vehicular networks. , 2016, , .		9
146	An Android ITS Driving Safety Application Based on Vehicle-to-Vehicle (V2V) Communications. , 2017, , .		9
147	Legacy Network Integration with SDN-IP Implementation towards a Multi-Domain SoDIP6 Network Environment. Electronics (Switzerland), 2020, 9, 1454.	1.8	9
148	BlueFriend: Using Bluetooth technology for mobile social networking. , 2009, , .		9
149	Assessing the feasibility of a VANET driver warning system. , 2009, , .		8
150	Optimising message broadcasting in opportunistic networks. Computer Communications, 2020, 157, 162-178.	3.1	8
151	A novel resilient and reconfigurable swarm management scheme. Computer Networks, 2021, 194, 108119.	3.2	8
152	Group mobility impact over TCP and CBR traffic in mobile ad hoc networks. , 2004, , .		7
153	Evaluating the Performance of Real Time Videoconferencing in Ad Hoc Networks Through Emulation. , 2008, , .		7
154	EasyMANET: an extensible and configurable platform for service provisioning in MANET environments. , 2010, 48, 159-167.		7
155	An overview of anonymous communications in mobile ad hoc networks. Wireless Communications and Mobile Computing, 2012, 12, 661-675.	0.8	7
156	Assessing the IEEE 802.11e QoS effectiveness in multi-hop indoor scenarios. Ad Hoc Networks, 2012, 10, 186-198.	3.4	7
157	A Collaborative Bayesian Watchdog for Detecting Black Holes in MANETs. Studies in Computational Intelligence, 2013, , 221-230.	0.7	7
158	RCDP: Raptor-based content delivery protocol for unicast communication in wireless networks for ITS. Journal of Communications and Networks, 2013, 15, 198-206.	1.8	7
159	I-VDE: A Novel Approach to Estimate Vehicular Density by Using Vehicular Networks. Lecture Notes in Computer Science, 2013, , 63-74.	1.0	7
160	Drop Less Known strategy for buffer management in DTN Nodes. , 2014, , .		7
161	EYES: A Novel Overtaking Assistance System for Vehicular Networks. Lecture Notes in Computer Science, 2015, , 375-389.	1.0	7
162	Estimating rainfall intensity by using vehicles as sensors. , 2017, , .		7

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163	FSF: Applying Machine Learning Techniques to Data Forwarding in Socially Selfish Opportunistic Networks. Sensors, 2019, 19, 2374.	2.1	7
164	WATERSensing: A Smart Warning System for Natural Disasters in Spain. IEEE Consumer Electronics Magazine, 2021, 10, 89-96.	2.3	7
165	Mobility as the Main Enabler of Opportunistic Data Dissemination in Urban Scenarios. Lecture Notes in Computer Science, 2017, , 107-120.	1.0	7
166	PERFORMANCE ANALYSIS OF POWER-AWARE ROUTE SELECTION PROTOCOLS IN MOBILE AD HOC NETWORKS. , 2002, , .		7
167	Optimizing the implementation of a MANET routing protocol in a heterogeneous environment. , 0, , .		6
168	A bounding algorithm for the broadcast storm problem in mobile ad hoc networks. , 0, , .		6
169	Evaluation of the energetic impact of Bluetooth low-power modes for ubiquitous computing applications. , 2006, , .		6
170	Design and Validation of a Low-Power Network Node for Pervasive Applications. , 2007, , .		6
171	Modeling emergency events to evaluate the performance of time-critical WSNs. , 2010, , .		6
172	TEEM: Trust-based Energy-Efficient Distributed Monitoring for Mobile Ad-hoc Networks. , 2017, , .		6
173	Friendly-drop: A social-based buffer management algorithm for opportunistic networks. , 2018, , .		6
174	optimizing UAV-to-Car Communications in 3D Environments Through Dynamic UAV Positioning. , 2019, , .		6
175	A vision-based system for autonomous vertical landing of unmanned aerial vehicles. , 2019, , .		6
176	UAV Mobility Model for Dynamic UAV-to-Car Communications. , 2019, , .		6
177	An UAV Swarm Coordination Protocol Supporting Planned Missions. , 2019, , .		6
178	How does energy consumption impact performance in Bluetooth?. Performance Evaluation Review, 2007, 35, 7-9.	0.4	6
179	FUDGE. , 2020, , .		6
180	Building a research prototype to provide pervasive services in hospitals. , 2008, , .		5

#	Article	IF	Citations
181	Assessing the best strategy to improve the stability of scalable video transmission in MANETs. , 2011, , .		5
182	A Map-based Sensor data Delivery Protocol for vehicular networks. , 2012, , .		5
183	Assessing the effectiveness of DTN techniques under realistic urban environments. , 2013, , .		5
184	On the use of a Cooperative Neighbor Position Verification scheme to secure warning message dissemination in VANETs. , 2013, , .		5
185	Validation of a vehicle emulation platform supporting OBD-II communications. , 2015, , .		5
186	DTB-MAC: Dynamic Token-Based MAC Protocol for reliable and efficient beacon broadcasting in VANETs. , 2015, , .		5
187	A novel On-Board Unit to accelerate the penetration of ITS services. , 2016, , .		5
188	Towards enabling hyper-responsive mobile apps through network edge assistance. , 2016, , .		5
189	Selecting the optimal buffer management for opportunistic networks both in pedestrian and vehicular contexts. , 2017, , .		5
190	A density-based contention window control scheme for unicast communications in vehicular ad hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2017, 24, 65.	0.3	5
191	FALCON: A new approach for the evaluation of opportunistic networks. Ad Hoc Networks, 2018, 81, 109-121.	3.4	5
192	Providing interoperability between IEEE 802.11 and Bluetooth protocols for Home Area Networks. Computer Networks, 2003, 42, 23-37.	3.2	4
193	Speeding up the evaluation of multimedia streaming applications in MANETs using HMMs. , 2004, , .		4
194	First Experiences with Bluetooth and Java in Ubiquitous Computing. , 0, , .		4
195	Evaluation of the Trade-Off between Power Consumption and Performance in Bluetooth Based Systems. , 2007, , .		4
196	A Wireless Mesh Network-based System for Hotspots Deployment and Management. , 2007, , .		4
197	A Comprehensive Methodology for Concept Map Assessment. , 2009, , .		4
198	Multi-Layer Performance Evaluation of a Content Delivery Framework for Urban Vehicular Networks. , 2010, , .		4

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199	Performance Trade-Offs of a IEEE 802.21-Based Vertical Handover Decision Algorithm under Different Network Conditions. , 2011, , .		4
200	PAWDS: A Roadmap Profile-Driven Adaptive System for Alert Dissemination in VANETs. , 2011, , .		4
201	Studying the feasibility of IEEE 802.15.4-Based WSNs for gas and fire tracking applications through simulation. , 2011, , .		4
202	HOP: Achieving Efficient Anonymity in MANETs by Combining HIP, OLSR, and Pseudonyms. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	4
203	Using roadmap profiling to enhance the warning message dissemination in vehicular environments. , 2011, , .		4
204	Implementing and testing a driving safety application for smartphones based on the eMDR protocol. , 2012, , .		4
205	A geolocation-based Vertical Handover Decision Algorithm for Vehicular Networks. , 2012, , .		4
206	V2X solutions for real-time video collection. , 2014, , .		4
207	An ITS solution providing real-time visual overtaking assistance using smartphones. , 2015, , .		4
208	Mobility Models for Vehicular Communications. , 2015, , 309-333.		4
209	Analysis and Classification of the Vehicular Traffic Distribution in an Urban Area. Lecture Notes in Computer Science, 2017, , 121-134.	1.0	4
210	Empirical Study and Modeling of Vehicular Communications at Intersections in the 5â€‰GHz Band. Mobile Information Systems, 2017, 2017, 1-15.	0.4	4
211	Assessing the Impact of Mobility on LoRa Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 75-81.	0.2	4
212	MBCAP: Mission Based Collision Avoidance Protocol for UAVs. , 2018, , .		4
213	Providing resilience to UAV swarms following planned missions. , 2020, , .		4
214	Safe and Efficient Take-Off of VTOL UAV Swarms. Electronics (Switzerland), 2022, 11, 1128.	1.8	4
215	A flexible and tunable route discovery mechanism for on-demand protocols. , 2004, , .		3
216	A MANET Autoconfiguration System based on Bluetooth Technology. , 2006, , .		3

#	Article	IF	Citations
217	MAYA: A Tool For Wireless Mesh Networks Management. , 2007, , .		3
218	Comparing tcp and udp performance in manets using multipath enhanced versions of dsr and dymo. , 2007, , .		3
219	Multipath extensions to the DYMO routing protocol. , 2007, , .		3
220	Improving the evaluation of concept maps: a step-by-step analysis. , 2009, , .		3
221	Markovian-based traffic modeling for mobile ad hoc networks. Computer Networks, 2009, 53, 2586-2600.	3.2	3
222	Deploying a real IEEE 802.11e testbed to validate simulation results. , 2009, , .		3
223	Evaluating the performance boundaries of WI-FI, WiMAX and UMTS using the network simulator (ns-2). , 2010, , .		3
224	Efficient routing in large sensor grids supporting mobile drains. , 2011, , .		3
225	Seamless MANET Autoconfiguration through Enhanced 802.11 Beaconing. Mobile Information Systems, 2013, 9, 19-35.	0.4	3
226	Power consumption evaluation in vehicular opportunistic networks. , 2015, , .		3
227	Demo:. , 2015, , .		3
228	On the impact of urban intersection characteristics in vehicular to vehicular (V2V) communications. , 2017, , .		3
229	Analysis of Small-World Features in Vehicular Social Networks. , 2019, , .		3
230	Enabling Real-time Communications and Services in Heterogeneous Networks of Drones and Vehicles. , 2019, , .		3
231	Detecting Vehiclesâ€™ Relative Position on Two-Lane Highways Through a Smartphone-Based Video Overtaking Aid Application. Mobile Networks and Applications, 2020, 25, 1084-1094.	2.2	3
232	CMDR: Conditional Minimum Drain Rate Protocol for Route Selection in Mobile Ad-Hoc Networks. Lecture Notes in Computer Science, 2003, , 702-712.	1.0	3
233	Evaluating the effectiveness of takeoff assignment strategies under irregular configurations. , 2021, , .		3
234	A Collision Avoidance Strategy For Multirrotor UAVs Based On Artificial Potential Fields. , 2021, , .		3

#	Article	IF	Citations
235	Bringing MQTT Brokers to the Edge: A Preliminary Evaluation. , 2022, , .		3
236	Improving Air Quality in Urban Recreational Areas through Smart Traffic Management. Sustainability, 2022, 14, 3445.	1.6	3
237	Evaluating Bluetooth performance as the support for context-aware applications. , 0, , .		2
238	Using distributed admission control to support multimedia applications in MANET environments. , 0, , .		2
239	A Low-Complexity Routing Algorithm with Power Control for Self-Organizing Short-Range Wireless Networks. Wireless Personal Communications, 2007, 41, 407-425.	1.8	2
240	Real-time density estimation in urban environments by using vehicular communications. , 2012, , .		2
241	Reducing channel contention in vehicular environments through an adaptive contention window solution. , 2013, , .		2
242	A representative and accurate characterization of inter-contact times in mobile opportunistic networks. , 2013, , .		2
243	A statistical learning reputation system for opportunistic networks. , 2014, , .		2
244	Epidgeons. , 2015, , .		2
245	Evaluating the Impact of Data Transfer Time and Mobility Patterns in Opportunistic Networks. , 2016, , .		2
246	Improving Message Delivery Performance inÂOpportunistic Networks Using a Forced-Stop Diffusion Scheme. Lecture Notes in Computer Science, 2016, , 156-168.	1.0	2
247	Smartphone tuning for accurate ambient noise assessment. , 2017, , .		2
248	Leveraging a Publish/Subscribe Fog System to Provide Collision Warnings in Vehicular Networks. Sensors, 2019, 19, 3852.	2.1	2
249	Using the smartphone camera as a sensor for safety applications. , 2019, , .		2
250	Assessing Social Aspects of Urban Vehicular Scenarios for Improving Message Diffusion. , 2019, , .		2
251	Opportunistic Networks with Messages Tracking. Advances in Intelligent Systems and Computing, 2021, , 442-451.	0.5	2
252	Adding voice messages to a low-cost long-range data messaging system. , 2020, , .		2

#	Article	IF	Citations
253	Simplifying the in-vehicle connectivity for ITS applications. , 2015, , .		2
254	CERA: Cluster-Based Energy Saving Algorithm to Coordinate Routing in Short-Range Wireless Networks. Lecture Notes in Computer Science, 2003, , 306-315.	1.0	2
255	A Tool Offering Steady-State Simulations for VANETs. Recent Advances in Communications and Networking Technology, 2014, 2, 102-112.	0.1	2
256	Modeling of mobility and groups in inter-vehicular MANET-based networks. , 2007, , .		1
257	Assessing the impact of Link Layer Feedback mechanisms on MANET routing protocols. , 2009, , .		1
258	Anonymous routing protocols: Impact on performance in MANETs. , 2009, , .		1
259	Solving the MANET autoconfiguration problem using the 802.11 SSID field. , 2010, , .		1
260	Vertical handover. , 2012, , .		1
261	Collaborative watchdogs: A fast and efficient approach to deal with selfish nodes in MANETs. , 2012, , .		1
262	Intruder tracking in WSNs using binary detection sensors and mobile sinks. , 2012, , .		1
263	An efficient solution offering sink mobility support in wireless sensor networks. , 2012, , .		1
264	Evaluating the Effectiveness of a QoS Framework for MANETs in a Real Testbed. Lecture Notes in Computer Science, 2012, , 221-234.	1.0	1
265	Assessing vehicular density estimation using vehicle-to-infrastructure communications. , 2013, , .		1
266	Special issue on telematics communications and vehicular networking. Journal of Communications and Networks, 2013, 15, 115-121.	1.8	1
267	TGRP: Topological-Geographical adaptive Routing Protocol for vehicular environments. , 2014, , .		1
268	Accelerating vehicle network simulations in urban scenarios through caching. , 2014, , .		1
269	Impact of mobility on Message Oriented Middleware (MOM) protocols for collaboration in transportation. , 2015, , .		1
270	An energy-efficient technique for MANETs distributed monitoring. , 2017, , .		1

#	Article	IF	Citations
271	Noise-Sensing Using Smartphones. , 2017, , .		1
272	Data Forwarding Techniques Based on Graph Theory Metrics in Vehicular Social Networks. , 2018, , .		1
273	Information Dissemination using Opportunistic Networks in Scenarios with People Renewal. , 2018, , .		1
274	Evaluating RaptorQ-Based Content Broadcasting Strategies in Vehicular Environments. , 2018, , .		1
275	A collision avoidance solution for UAVs following planned missions. , 2018, , .		1
276	ANFIS based Classification Model for Network Device Migration towards SoDIP6 Networks. , 2021, , .		1
277	Route Stability Techniques for Enhanced Video Delivery on Manets. International Federation for Information Processing, 2005, , 155-166.	0.4	1
278	A-HIP: A Solution Offering Secure and Anonymous Communications in MANETs. Lecture Notes in Computer Science, 2010, , 217-231.	1.0	1
279	VEWE: A Vehicle ECU Wireless Emulation Tool Supporting OBD-II Communication and Geopositioning. Lecture Notes in Computer Science, 2014, , 432-445.	1.0	1
280	Calibrating Low-End Sensors for Ozone Monitoring. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 251-256.	0.2	1
281	Experience Developing a Vehicular Network Based on Heterogeneous Communication Technologies. , 0, , 298-317.		1
282	Evaluating the Performance of the IEEE 802.15.4 Standard in Supporting Time-Critical Wireless Sensor Networks. , 0, , 142-158.		1
283	Assessing the impact of road traffic constraints on pollution. , 2021, , .		1
284	Improving UAV Mission Quality and Safety through Topographic Awareness. Drones, 2022, 6, 74.	2.7	1
285	Collisionâ€free cooperative Unmanned Aerial Vehicle protocols for sustainable aerial services. IET Smart Cities, 0, , .	1.6	1
286	Modeling Distributed MQTT Systems Using Multicommodity Flow Analysis. Electronics (Switzerland), 2022, 11, 1498.	1.8	1
287	Obtaining high performance data transmission in the Internet. Lecture Notes in Computer Science, 1995, , 60-66.	1.0	0
288	Integrating short-range wireless networks: an energy efficient proposal. , 0, , .		0

#	Article	IF	Citations
289	A clustering algorithm to provide interoperability to local area wireless networks. , 0, , .		0
290	A Novel QoS Framework for Medium-Sized MANETs Supporting Multipath Routing Protocols. , 2006, , .		0
291	Solving the user-to-host binding problem in ad hoc networks through photo-ids. , 2007, , .		0
292	Assessing the effectiveness of longest-in-system (lis) schedulingin ad hoc networks. , 2007, , .		0
293	Evaluation of the Impact of Multipath Data Dispersion for Anonymous TCP Connections. , 2007, , .		0
294	Evaluating a bound for MANETs routing protocols performance using graphs with activation windows. , 2008, , .		0
295	Efficient content pushing in IEEE 802.11p vehicular environments. , 2010, , .		0
296	Quantifying traffic anonymity in MANETs: A case study. , 2010, , .		0
297	Design, implementation, and optimization of a Raptor-based content delivery protocol. , 2011, , .		0
298	Distributed admission control in 802.11e-based MANETs: From theory to practice. , 2011, , .		0
299	Raptor-based reliable unicast content delivery in wireless network environments. , 2011, , .		0
300	Modeling Routing in Smartphones-based wireless networks using evolving graphs. , 2012, , .		0
301	An algorithm to evaluate routing conditions in smartphones-based wireless networks. Expert Systems With Applications, 2013, 40, 5033-5048.	4.4	0
302	A novel approach for the fast detection of black holes in mobile ad hoc networks. Concurrent Engineering Research and Applications, 2013, 21, 177-185.	2.0	0
303	Assessing the impact of obstacle modeling accuracy on IEEE 802.11p based message dissemination. , 2013, , .		0
304	An analytical evaluation of a Map-based Sensor-data Delivery Protocol for VANETs. , 2013, , .		0
305	Using Evolution Strategies to Reduce Emergency Services Arrival Time in Case of Accident. , 2013, , .		0
306	Evaluating metrics for optimal path selection in large wireless community networks. , 2014, , .		0

#	Article	IF	Citations
307	Rumours and good practices in community networks wireless links. , 2014, , .		0
308	Improving delivery delay in social-based message forwarding in Delay Tolerant Networks. , 2016, , .		0
309	Editorial for SM 160 â€“ Design and Implementation of Mobile Smart Objects Special Issue. Mobile Networks and Applications, 2016, 21, 644-645.	2.2	0
310	Experimental Evaluation of a Low-Cost Digital Sign-Posts Architecture for ITS Applications. Lecture Notes in Computer Science, 2016, , 294-307.	1.0	0
311	Editorial: Smart Objects and Technologies for Social Good (GOODTECHS 2016). Mobile Networks and Applications, 2018, 23, 126-127.	2.2	0
312	A Smartphone-Based System Supporting Forward Collision Warning Generation. , 2018, , .		0
313	Collaborative Solutions for Unmanned Aerial Vehicles. Internet of Things, 2021, , 121-137.	1.3	0
314	LADEA: A Software Infrastructure for Audio Delivery and Analytics. Mobile Networks and Applications, 0, , 1.	2.2	0
315	LAPSE: A Machine Learning Message Forwarding Approach based on Node Centrality Estimation in Sparse Dynamic Networks. , 2021, , .		0
316	Grcmob: A Group Mobility Pattern Generator to Evaluate Mobile Ad Hoc Networks Performance. Lecture Notes in Computer Science, 2004, , 29-42.	1.0	0
317	Evaluating a bound for MANETs routing protocols performance using graphs with activation windows. , 2008, , .		0
318	Soft QoS Support for Mobile Ad Hoc Networks Based on End-to-End Path Probing and IEEE 802.11e Technology. Wireless Networks and Mobile Communications, 2008, , 145-178.	1.0	0
319	Experiences in Developing Ubiquitous Applications. , 2010, , 97-112.		0
320	A Methodology to Evaluate Video Streaming Performance in 802.11e Based MANETs. Lecture Notes in Computer Science, 2011, , 276-289.	1.0	0
321	RCDP: A Novel Content Delivery Solution for Wireless Networks Based on Raptor Codes. Lecture Notes in Computer Science, 2012, , 288-301.	1.0	0
322	Robust Broadcasting of Media Content in Urban Environments. , 2012, , 105-120.		0
323	Fighting against Black Hole Attacks in Mobile Ad Hoc Networks. , 2014, , 73-100.		0
324	<title>Augmenting best-effort traffic transmission performance by optimizing resource allocation policies</title>. , 1997, , .		0

#	Article	IF	Citations
325	Performance Evaluation of Realistic Vehicular Networks: A MAC Layer Perspective. , 2014, , 571-594.		0
326	PdUC-D: A Discretized UAV Guidance System for Air Pollution Monitoring Tasks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 385-394.	0.2	0
327	Integrating an MQTT Proxy in a LoRa-Based Messaging System for Generic Sensor Data Collection. Lecture Notes in Computer Science, 2020, , 282-294.	1.0	0
328	Intelligent Approach to Network Device Migration Planning towards Software-Defined IPv6 Networks. Sensors, 2022, 22, 143.	2.1	0
329	Power Characterization of a Bluetooth-based Wireless Node for Ubiquitous Computing. , 2006, , .		0
330	Guest Editorial Special Issue on Sustainable Solutions for the Internet of Things. IEEE Internet of Things Journal, 2022, 9, 7091-7094.	5.5	0