Mario Gerla

List of Publications by Citations

236 papers	**7,674** citations	**39** h-index	**81** g-index
282 ext. papers	**9,275** ext. citations	**3.9** avg, IF	**6.16** L-index

#	Paper	IF	Citations
236	Multicluster, mobile, multimedia radio network. *Wireless Networks*, **1995**, 1, 255-265	2.5	868
235	GloMoSim. *ACM SIGSIM Simulation Digest*, **1998**, 28, 154-161		391
234	Mobility prediction and routing in ad hoc wireless networks. *International Journal of Network Management*, **2001**, 11, 3-30	1.8	336
233	Effectiveness of RTS/CTS handshake in IEEE 802.11 based ad hoc networks. *Ad Hoc Networks*, **2003**, 1, 107-123	4.8	280
232	On-Demand Multicast Routing Protocol in Multihop Wireless Mobile Networks. *Mobile Networks and Applications*, **2002**, 7, 441-453	2.9	250
231	**2014**, 52, 148-155		241
230	. *IEEE Wireless Communications*, **2006**, 13, 52-57	13.4	234
229	TCP Westwood: End-to-End Congestion Control for Wired/Wireless Networks. *Wireless Networks*, **2002**, 8, 467-479	2.5	209
228	Towards software-defined VANET: Architecture and services **2014**,		200
227	Vehicular networks and the future of the mobile internet. *Computer Networks*, **2011**, 55, 457-469	5.4	200
226	A survey of urban vehicular sensing platforms. *Computer Networks*, **2010**, 54, 527-544	5.4	152
225	. *IEEE Wireless Communications*, **2006**, 13, 76-81	13.4	146
224	Dissemination and Harvesting of Urban Data Using Vehicular Sensing Platforms. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 882-901	6.8	139
223	Vehicular Cloud Computing **2012**,		138
222	FreeLoc: Calibration-free crowdsourced indoor localization **2013**,		136
221	Code torrent **2006**,		125
220	GeoDTN+Nav: Geographic DTN Routing with Navigator Prediction for Urban Vehicular Environments. *Mobile Networks and Applications*, **2010**, 15, 61-82	2.9	124

219	Forwarding Group Multicast Protocol (FGMP) for multihop, mobile wireless networks. *Cluster Computing*, **1998**, 1, 187-196	2.1	113
218	. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 1537-1548	6.1	105
217	Enhanced Perimeter Routing for Geographic Forwarding Protocols in Urban Vehicular Scenarios **2007**,		81
216	DOTS: A Propagation Delay-Aware Opportunistic MAC Protocol for Mobile Underwater Networks. *IEEE Transactions on Mobile Computing*, **2014**, 13, 766-782	4.6	73
215	Secure incentives for commercial ad dissemination in vehicular networks **2007**,		71
214	Binary-Partition-Assisted MAC-Layer Broadcast for Emergency Message Dissemination in VANETs. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 757-770	6.1	70
213	Content Centric Networking in tactical and emergency MANETs **2010**,		69
212	BAHG: Back-Bone-Assisted Hop Greedy Routing for VANET's City Environments. *IEEE Transactions on Intelligent Transportation Systems*, **2013**, 14, 199-213	6.1	64
211	Efficient flooding with Passive Clustering (PC) in ad hoc networks. *Computer Communication Review* , **2002**, 32, 44-56	1.4	61
210	CORNER: a realistic urban propagation model for VANET **2010**,		60
209	FleaNet: A Virtual Market Place on Vehicular Networks. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 344-355	6.8	55
208	LOUVRE: Landmark Overlays for Urban Vehicular Routing Environments **2008**,		55
207	We Can Deliver Messages to Far Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2012**, 13, 1099-1115	6.1	49
206	An Identity-Free and On-Demand Routing Scheme against Anonymity Threats in Mobile Ad Hoc Networks. *IEEE Transactions on Mobile Computing*, **2007**, 6, 888-902	4.6	49
205	Wireless Ad Hoc Multicast Routing with Mobility Prediction. *Mobile Networks and Applications*, **2001** , 6, 351-360	2.9	49
204	Phero-trail: a bio-inspired location service for mobile underwater sensor networks. *IEEE Journal on Selected Areas in Communications*, **2010**, 28, 553-563	14.2	46
203	How Do You Quickly Choreograph Inter-Vehicular Communications? A Fast Vehicle-to-Vehicle Multi-Hop Broadcast Algorithm, Explained **2007**,		46
202	Physical layer security in wireless smart grid **2012**, 50, 46-52		45

183	E-ODMRP: Enhanced ODMRP with motion adaptive refresh. *Journal of Parallel and Distributed Computing*, **2008**, 68, 1044-1053	4.4	33
182	BlueTorrent: Cooperative Content Sharing for Bluetooth Users **2007**,		32
181	TO-GO: TOpology-assist geo-opportunistic routing in urban vehicular grids **2009**,		31
180	P2P Content Distribution to Mobile Bluetooth Users. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 356-367	6.8	31
179	A Mobile Delay-Tolerant Approach to Long-Term Energy-Efficient Underwater Sensor Networking **2007**,		31
178	DPEL: Dynamic PIT Entry Lifetime in Vehicular Named Data Networks. *IEEE Communications Letters*, **2016**, 20, 336-339	3.8	30
177	C-VeT the UCLA campus vehicular testbed: Integration of VANET and Mesh networks **2010**,		30
176	BPAB: Binary Partition Assisted Emergency Broadcast Protocol For Vehicular Ad Hoc Networks **2009**,		30
175	TrafRoute: A different approach to routing in vehicular networks **2010**,		26
174	Urban-X: Towards distributed channel assignment in cognitive multi-radio mesh networks **2010**,		25
173	RPL under mobility **2012**,		25
172	BlueTorrent: Cooperative content sharing for Bluetooth users. *Pervasive and Mobile Computing*, **2007**, 3, 609-634	3.5	25
171	Scalable VANET content routing using hierarchical bloom filters. *Wireless Communications and Mobile Computing*, **2015**, 15, 1001-1014	1.9	24
170	M-FAMA: A multi-session MAC protocol for reliable underwater acoustic streams **2013**,		24
169	A Scalable Overlay Multicast Architecture for Large-Scale Applications. *IEEE Transactions on Parallel and Distributed Systems*, **2007**, 18, 449-459	3.7	24
168	Randomized channel hopping scheme for anti-jamming communication **2010**,		23
167	RF-GPS: RFID assisted localization in VANETs **2009**,		23
166	Efficient peer-to-peer file sharing using network coding in MANET. *Journal of Communications and Networks*, **2008**, 10, 422-429	4.1	23

165	ATM virtual private networks. *Communications of the ACM*, **1995**, 38, 101-109	2.5	23
164	Multipath TCP in SDN-enabled LEO satellite networks **2016**,		23
163	An analytical framework for neighbor discovery strategies in ad hoc networks with sectorized antennas. *IEEE Communications Letters*, **2009**, 13, 832-834	3.8	22
162	Network coding vs. erasure coding: Reliable multicast in ad hoc networks **2008**,		22
161	Enhancing the quality level support for real-time multimedia applications in software-defined networks **2015**,		21
160	Towards inter-vehicle communication strategies for platooning support **2014**,		21
159	Geo-LANMAR: a scalable routing protocol for ad hoc networks with group motion. *Wireless Communications and Mobile Computing*, **2006**, 6, 989-1002	1.9	20
158	COCAST: Multicast mobile ad hoc networks using cognitive radio **2009**,		19
157	Impact of Node Heterogeneity in ZigBee Mesh Network Routing **2006**,		19
156	Efficient Wireless Network Simulations with Detailed Propagation Models. *Wireless Networks*, **2001**, 7, 297-305	2.5	19
155	PBProbe: A capacity estimation tool for high speed networks. *Computer Communications*, **2008**, 31, 3883-3893	5.3	18
154	First Responders' Crystal Ball: How to Scry the Emergency from a Remote Vehicle. *Performance, Computing and Communications Conference (IPCCC), IEEE International*, **2007**,		18
153	An efficient road-based directional broadcast protocol for urban VANETs **2010**,		17
152	Opportunistic vehicular routing **2010**,		17
151	Cluster-based inter-domain routing (cidr) protocol for MANETs **2009**,		17
150	Mobility Management for Hierarchical Wireless Networks. *Mobile Networks and Applications*, **2001**, 6, 331-337	2.9	17
149	Fundamental limits on end-to-end throughput of network coding in multi-rate and multicast wireless networks. *Computer Networks*, **2013**, 57, 3267-3275	5.4	16
148	DDOR: Destination discovery oriented routing in highway/freeway VANETs+. *Telecommunication Systems*, **2012**, 50, 267-284	2.3	16

129	FleaNet: A Virtual Market Place on Vehicular Networks **2006**,		12
128	Combining Source- and Localized Recovery to Achieve Reliable Multicast in Multi-hop Ad Hoc Networks. *Lecture Notes in Computer Science*, **2004**, 112-124	0.9	12
127	Software Defined naval network for satellite communications (SDN-SAT) **2016**,		12
126	Scalable reactive vehicle-to-vehicle congestion avoidance mechanism **2015**,		11
125	Supporting military communications with Named Data Networking: An emulation analysis **2012**,		11
124	Rapid Dengue and Outbreak Detection with Mobile Systems and Social Networks. *Mobile Networks and Applications*, **2012**, 17, 178-191	2.9	11
123	Group-based secure source authentication protocol for VANETs **2010**,		11
122	Comparisons of ZigBee Personal Area Network (PAN) Interconnection Methods **2007**,		11
121	Ad-hoc Storage Overlay System (ASOS): A Delay-Tolerant Approach in MANETs **2006**,		11
120	Communications via High Altitude Platforms: Technologies and Trials. *International Journal of Wireless Information Networks*, **2006**, 13, 1-4	1.9	11
119	Information-centric VANETs: A study of content routing design alternatives **2016**,		11
118	Socially Inspired Relaying and Proactive Mode Selection in mmWave Vehicular Communications. *IEEE Internet of Things Journal*, **2019**, 6, 5172-5183	10.7	10
117	Robust Power Control Under Location and Channel Uncertainty in Cognitive Radio Networks. *IEEE Wireless Communications Letters*, **2015**, 4, 113-116	5.9	10
116	Cognitive routing with the ETX metric **2014**,		10
115	INTERLOC: An interference-aware RSSI-based localization and sybil attack detection mechanism for vehicular ad hoc networks **2017**,		10
114	NAVOPT: Navigator Assisted Vehicular Route OPTimizer **2011**,		10
113	Mobility changes anonymity: new passive threats in mobile ad hoc networks. *Wireless Communications and Mobile Computing*, **2006**, 6, 281-293	1.9	10
112	Contradictory relationship between Hurst parameter and queueing performance (extended version). *Telecommunication Systems*, **2001**, 16, 159-175	2.3	10

111	Wireless Interrupt: Inter-Device Signaling in Next Generation Wireless Networks **2010**,		9
110	Two Ray or not Two Ray this is the price to pay **2009**,		9
109	Rateless Codes for File Transfer over DVB-S **2009**,		9
108	Cooperative Synchronous Broadcasting in Infrastructure-to-Vehicles Networks **2008**,		9
107	Crowdsource Based Indoor Localization by Uncalibrated Heterogeneous Wi-Fi Devices. *Mobile Information Systems*, **2016**, 2016, 1-18	1.4	9
106	Incentive driven LTE content distribution in VANETs **2015**,		8
105	Vehicle location service scheme based on road map in Vehicular Sensor Networks. *Computer Networks*, **2017**, 127, 138-150	5.4	8
104	Contact Duration-Aware Routing in Delay Tolerant Networks **2017**,		8
103	Traffic optimization in software defined naval network for satellite communications **2017**,		8
102	Cognitive Multi-Radio Mesh Networks on ISM bands: A cross-layer architecture **2010**,		8
101	CapStart: An Adaptive TCP Slow Start for High Speed Networks **2009**,		8
100	Time and wavelength division multiaccess with acoustooptic tunable filters. *Fiber and Integrated Optics*, **1993**, 12, 113-132	0.8	8
99	Software Defined Multi-Path TCP Solution for Mobile Wireless Tactical Networks **2018**,		8
98	Interest propagation in named data manets **2013**,		7
97	Personal gateway in mobile health monitoring **2011**,		7
96	Performance Evaluation of Secure Network Coding Using Homomorphic Signature **2011**,		7
95	Multipath TCP over LEO satellite networks **2015**,		6
94	Software-Defined Management of Edge as a Service Networks. *IEEE Transactions on Network and Service Management*, **2016**, 13, 226-239	4.8	6

93	Optimal content placement in ICN vehicular networks **2014**,		6
92	Social network based security scheme in mobile information-centric network **2013**,		6
91	Multiple network coded TCP sessions in disruptive wireless scenarios **2011**,		6
90	MANET QoS support without reservations. *Security and Communication Networks*, **2011**, 4, 316-328	1.9	6
89	Active Highways (Position Paper) **2008**,		6
88	Modeling Channel Conflict Probabilities between IEEE 802.15 based Wireless Personal Area Networks **2006**,		6
87	FleaNet: A Virtual Market Place on Vehicular Networks **2006**,		6
86	Multicasting protocols for high-speed, wormhole-routing local area networks. *Computer Communication Review*, **1996**, 26, 184-193	1.4	6
85	BOTVEILLANCE: A Vehicular Botnet Surveillance Attack against Pseudonymous Systems in VANETs **2018**,		6
84	Refactoring Network Functions Modules to Reduce Latencies and Improve Fault Tolerance in NFV. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 2275-2287	14.2	6
83	Social Norm Incentives for Network Coding in Manets. *IEEE/ACM Transactions on Networking*, **2017**, 25, 1761-1774	3.8	5
82	Trends in Human-Centric Multimedia Networking scenarios **2016**,		5
81	A framework for inter-domain routing in virtual coordinate based mobile networks. *Wireless Networks*, **2013**, 19, 1611-1626	2.5	5
80	Cognitive multicast with partially overlapped channels in vehicular ad hoc networks. *Ad Hoc Networks*, **2013**, 11, 2016-2025	4.8	5
79	Cognitive radio implementation in ISM bands with Microsoft SORA **2011**,		5
78	Improving highway traffic through partial velocity synchronization **2012**,		5
77	Connectivity improvement for inter-domain routing in MANETs **2010**,		5
76	Bio-Inspired Multi-agent Collaboration for Urban Monitoring Applications. *Lecture Notes in Computer Science*, **2008**, 204-216	0.9	5

75	A novel social contact graph-based routing strategy for workload and throughput fairness in delay tolerant networks. *Wireless Communications and Mobile Computing*, **2016**, 16, 1352-1362	1.9	5
74	Energy Efficiency Enhancement in 5G Mobile Wireless Networks **2019**,		4
73	Community aware content retrieval in disruption-tolerant networks **2014**,		4
72	MADN - Multipath Ad-hoc Data Network prototype and experiments **2013**,		4
71	Practical random linear coding for MultiPath TCP: MPC-TCP **2017**,		4
70	A novel social contact graph based routing strategy for Delay Tolerant Networks **2015**,		4
69	Fairness evaluation of pipeline coded and non coded TCP flows **2014**,		4
68	Mobile social network based trust authentication **2012**,		4
67	CodeMP: Network coded multipath to support TCP in disruptive MANETs **2012**,		4
66	Priority-Based Congestion Control Algorithm for Cross-Traffic Assistance on LTE Networks **2013**,		4
65	Peer to peer video streaming in Bluetooth overlays. *Multimedia Tools and Applications*, **2008**, 37, 263-292	2.5	4
64	Centralized network utility maximization over aggregate flows **2016**,		4
63	A joint relay selection and buffer management scheme for delivery rate optimization in DTNs **2016**,		3
62	A Software Defined Multi-Path Traffic Offloading System for Heterogeneous LTE-WiFi Networks **2019**,		3
61	DT-ICAN: A Disruption-Tolerant Information-centric Ad-Hoc Network **2014**,		3
60	Social norm incentives for secure network coding in MANETs **2012**,		3
59	Quorum-based location service in Vehicular Sensor Networks **2013**,		3
58	Timely and robust key establishment under jamming attack in critical wireless networks **2011**,		3

57	Trace-Based Evaluation of Rate Adaptation Schemes in Vehicular Environments **2010**,		3
56	Cognitive multicast (CoCast) in vehicular networks using OFDM subchannels and network coding **2012**,		3
55	Delay tolerant Mobility Aware Routing/Mobility Dissemination Protocol for the airborne network **2009**,		3
54	Adaptive forwarding rate control for network coding in tactical manets **2010**,		3
53	Bluetooth 2.1 based Emergency Data Delivery System in HealthNet **2008**,		3
52	Concurrent link capacity of MIMO ad-hoc networks with QoS constraint **2008**,		3
51	CORA: Collaborative Opportunistic Recovery Algorithm for loss controlled, delay bounded ad hoc multicast. *Computer Communications*, **2008**, 31, 3672-3682	5.1	3
50	MIMO and TCP: A Case for Cross Layer Design **2007**,		3
49	Spatio-Temporal Data Retention System with MEC for Local Production and Consumption **2018**,		2
48	Broadcast-First Service Scheduling Scheme for Vehicle-Roadside Communication. *Wireless Personal Communications*, **2013**, 68, 1903-1922	1.9	2
47	An anycast routing strategy with time constraint in delay tolerant networks **2017**,		2
46	Privacy Risks in Vehicle Grids and Autonomous Cars **2017**,		2
45	Localization of Sybil Nodes with Electro-Acoustic Positioning in VANETs **2017**,		2
44	Web-based mobile e-Diary for youth with Sickle Cell Disease **2012**,		2
43	**2012**,		2
42	Prefix hopping: efficient many-to-many communication support in information centric networks **2013**,		2
41	An Optimization Framework for Opportunistic Receiver Scheduling in Wireless Multi-Hop Networks **2010**,		2
40	AutoGait: A mobile platform that accurately estimates the distance walked **2010**,		2

39	Running consistent, parallel experiments in vehicular environment **2011**,		2
38	Taking the LOUVRE approach. *IEEE Vehicular Technology Magazine*, **2009**, 4, 86-92	9.9	2
37	TP-UrbanX - A new transport protocol for Cognitive Multi-Radio Mesh Networks **2011**,		2
36	TCP SPC: Statistic Process Control for Enhanced Transport over Wireless Links **2008**,		2
35	C-VeT An Open Research Platform for VANETs: Evaluation of Peer to Peer Applications in Vehicular Networks **2008**,		2
34	Temporary Interconnection of ZigBee Personal Area Network (PAN) **2007**,		2
33	Efficient Sink Location Service for prolonging the network lifetime in wireless sensor networks **2016**,		2
32	Social contact graph-based group communication schemes for delay tolerant networks. *International Journal of Parallel, Emergent and Distributed Systems*, **2021**, 36, 380-394	1	2
31	Time-constrained anycast routing under short contact duration in delay-tolerant networks. *Annales Des Telecommunications/Annals of Telecommunications*, **2018**, 73, 549-558	2	2
30	Towards Efficient Cellular Traffic Offloading via Dynamic MPTCP Path Configuration with SDN **2019** ,		1
29	A two-level multicast routing strategy for delay tolerant networks **2015**,		1
28	Social-Distance based anycast routing in Delay Tolerant Networks **2016**,		1
27	Surveillance service on the open mobile cloud **2013**,		1
26	An Evolutionary Multi-player Game Model for Two-Hop Routing in Delay Tolerant Networks **2017**,		1
25	A Relay Selection Strategy Based on Power-Law and Exponentially Distributed Contacts in DTNs **2017**,		1
24	A DTN Routing and Buffer Management Strategy for Message Delivery Delay Optimization **2015**,		1
23	Drop Dead Data - What to expect Securing Data instead of Channels **2015**,		1
22	Performance evaluation of wireless network coding in TDMA networks **2012**,		1

21   MPR-aware performance improvement for inter-domain routing in MANETs **2011**,   1

20   EDFS a novel flooding protocol for multi-hop wireless networks **2010**,   1

19   RTMB/CTMB: A Collision Avoidance Scheme for VANET Broadcast **2011**,   1

18   Thin Layer approach to increase reliability in ad hoc network **2009**,   1

17   TCP-Derwood: A TCP variant to address link switches **2010**,   1

16   PathCrawler: Automatic harvesting web infra-structure **2008**,   1

15   Opportunistic medical monitoring using bluetooth P2P networks **2008**,   1

14   A Cross-Comparison of Advanced TCP Protocols in High Speed and Satellite Environments **2008**,   1

13   MIMO-CAST: A Cross-Layer Ad Hoc Multicast Protocol using MIMO Radios **2007**,   1

12   NCR: A Unifying Parameter to Characterize and Evaluate Data Dissemination Scenarios, and its Analytic Study **2007**,   1

11   The significance of finite buffer edge effects in histogram measurements of queues. *Telecommunication Systems*, **2001**, 16, 177-193   2.3   1

10   Flow control and bandwidth management in next generation Internets. *Telecommunication Systems* , **1999**, 11, 395-412   2.3   1

9   Routing Protocols for Cognitive Vehicular Ad Hoc Networks **2016**, 78-111   1

8   Socio-geo: Social network routing protocol in delay tolerant networks **2016**,   1

7   Poster: On the effect of RF jamming attack on autonomous platooning systems with radio and VLC hybrid communication **2016**,   1

6   A security framework for content retrieval in DTNs **2016**,   1

5   Adaptive Data Transmission Control for Spatio-temporal Data Retention over Crowds of Vehicles. *IEEE Transactions on Mobile Computing*, **2021**, 1-1   4.6   1

4   Promoting Cooperative Strategies on Proof-of-Work Blockchain **2018**,   1

3   Parallel simulation of a high-speed wormhole routing network. *ACM SIGSIM Simulation Digest*, **1996**, 26, 47-56   0

2   HAP: A New Model for Packet Arrivals. *Journal of High Speed Networks*, **1993**, 2, 327-354   0.4   0

1   Special issue for selected papers from wireless days 2010 conference Mobile communications and computing in challenged environments: models, protocols, applications *Wireless Communications and Mobile Computing*, **2013**, 13, 211-211   1.9