Anna Maria Vegni

List of Publications by Year
in descending order

102 papers	**1,646** citations	471509 **17** h-index
434195 **31** g-index		

104 all docs	**104** docs citations	**104** times ranked
1787 citing authors		

#	Article	IF	Citations
1	A Survey on Vehicular Social Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 2397-2419.	39.4	217
2	A hybrid Radio Frequency and broadcast Visible Light Communication system. , 2011, , .		179
3	Handover in VLC systems with cooperating mobile devices. , 2012, , .		63
4	TACASHI: Trust-Aware Communication Architecture for Social Internet of Vehicles. IEEE Internet of Things Journal, 2019, 6, 5870-5877.	8.7	59
5	Security Access Protocols in IoT Capillary Networks. IEEE Internet of Things Journal, 2017, 4, 645-657.	8.7	56
6	LAST: A Framework to Localize, Access, Schedule, and Transmit in Indoor VLC Systems. Journal of Lightwave Technology, 2015, 33, 1872-1887.	4.6	55
7	A hybrid (N/M)CHO soft/hard vertical handover technique for heterogeneous wireless networks. Ad Hoc Networks, 2014, 14, 51-70.	5.5	45
8	Link Selection in Hybrid RF/VLC Systems Under Statistical Queueing Constraints. IEEE Transactions on Wireless Communications, 2018, 17, 2738-2754.	9.2	45
9	Trace-Orthogonal PPM-Space Time Block Coding Under Rate Constraints for Visible Light Communication. Journal of Lightwave Technology, 2015, 33, 481-494.	4.6	41
10	An indoor localization algorithm in a small-cell LED-based lighting system. , 2012, , .		40
11	A probabilistic routing by using multi-hop retransmission forecast with packet collision-aware constraints in vehicular networks. Ad Hoc Networks, 2014, 14, 118-129.	5.5	38
12	A Location-Based Vertical Handover Algorithm for Limitation of the Ping-Pong Effect. , 2008, , .		37
13	LAT indoor MIMO-VLC &#x2014; Localize, access and transmit. , 2012, , .		32
14	Optimal LED placement in indoor VLC networks. Optics Express, 2019, 27, 8504.	3.4	30
15	A Neural Network and IoT Based Scheme for Performance Assessment in Internet of Robotic Things. , 2016, , .		28
16	Hybrid vehicular communications based on V2V-V2I protocol switching. International Journal of Vehicle Information and Communication Systems, 2011, 2, 213.	0.1	26
17	Forwarder smart selection protocol for limitation of broadcast storm problem. Journal of Network and Computer Applications, 2015, 47, 61-71.	9.1	26
18	Non-Line-of-Sight MIMO Space-Time Division Multiplexing Visible Light Optical Camera Communications. Journal of Lightwave Technology, 2019, 37, 2409-2417.	4.6	25

#	ARTICLE	IF	CITATIONS
19	ICDMS: An Intelligent Cloud Based Disaster Management System for Vehicular Networks. Lecture Notes in Computer Science, 2012, , 40-56.	1.3	23
20	An Acoustic Communication Technique of Nanorobot Swarms for Nanomedicine Applications. IEEE Transactions on Nanobioscience, 2015, 14, 598-607.	3.3	23
21	Drone Networking in the 6G Era: A Technology Overview. IEEE Communications Standards Magazine, 2021, 5, 88-95.	4.9	23
22	Enabling high data rate VLC via MIMO-LEDs PPM. , 2013, , .		21
23	Resource allocation and interference management in OFDMA-based VLC networks. Physical Communication, 2018, 31, 169-180.	2.1	21
24	A MPTCP-Based Network Architecture for Intelligent Train Control and Traffic Management Operations. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2290-2302.	8.0	19
25	A multi-cell lighting testbed for VLC and VLP. , 2018, , .		19
26	A Combined Vertical Handover Decision Metric for QoS Enhancement in Next Generation Networks. , 2009, , .		18
27	A V2X-based approach for reduction of delay propagation in vehicular Ad-Hoc networks. , 2011, , .		18
28	Resource allocation in a multi-color DS-OCDMA VLC cellular architecture. Optics Express, 2018, 26, 5940.	3.4	18
29	On modeling speed-based vertical handovers in vehicular networks: &#x201C;Dad, slow down, I am watching the movie&#x201D;. , 2010, , .		17
30	Data Transmissions Using Hub Nodes in Vehicular Social Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1570-1585.	5.8	17
31	SRB: A Selective Reliable Broadcast protocol for safety applications in VANETs. , 2012, , .		16
32	A fountain codes-based data dissemination technique in vehicular Ad-hoc networks. , 2011, , .		15
33	Metameric Indoor Localization Schemes Using Visible Lights. Journal of Lightwave Technology, 2017, 35, 2933-2942.	4.6	14
34	Hybrid RF/LC Systems under QoS Constraints. , 2018, , .		13
35	DOA and TOA Based Localization Services Protocol in IEEE 802.11 Networks. Wireless Personal Communications, 2010, 54, 155-168.	2.7	12
36	Design of a cognitive VLC network with illumination and handover requirements. , 2017, , .		12

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37	Interference cancellation in MIMO NLOS optical-camera-communication-based intelligent transport systems. Applied Optics, 2019, 58, 9384.	1.8	12
38	A cooperative crowdsensing system based on flying and ground vehicles to control respiratory viral disease outbreaks. Ad Hoc Networks, 2022, 124, 102699.	5.5	12
39	Performance Analysis of a Multiport Encoder/Decoder in OCDMA Scenario. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1415-1421.	2.9	11
40	A probability based vertical handover approach to prevent ping-pong effect. , 2009, , .		11
41	Towards Efficient Deployment in Internet of Robotic Things. Internet of Things, 2018, , 21-37.	1.7	11
42	Efficient Bayesian Communication Approach for Smart Agriculture Applications. , 2017, , .		10
43	A Cross-Layer Location-Based Approach for Mobile-Controlled Connectivity. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-13.	0.6	9
44	On the Interaction between a Nanoparticulate System and the Human Body in Body Area Nanonetworks. Micromachines, 2015, 6, 1213-1235.	2.9	9
45	Optimising message broadcasting in opportunistic networks. Computer Communications, 2020, 157, 162-178.	5.1	8
46	IMPERSONAL: An IoT-Aided Computer Vision Framework for Social Distancing for Health Safety. IEEE Internet of Things Journal, 2022, 9, 7261-7272.	8.7	8
47	A reactive vertical handover approach for WiFi-UMTS dual-mode terminals. , 2008, , .		7
48	Location aware mobility assisted services for heterogeneous wireless technologies. , 2009, , .		7
49	Modeling of Intermittent Connectivity in Opportunistic Networks: The Case of Vehicular Ad hoc Networks. , 2013, , 179-207.		7
50	Security Access Protocols in IoT Networks with Heterogenous Non-IP Terminals. , 2014, , .		7
51	A Bayesian Packet Sharing Approach for Noisy IoT Scenarios. , 2016, , .		7
52	A Bayesian and smart gateway based communication for noisy IoT scenario. , 2017, , .		7
53	A Bayesian Approach for an Efficient Data Reduction in IoT. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 3-10.	0.3	7
54	A social internet of vehicles sharing SIoT relationships. , 2019, , .		7

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55	Preliminary design and characterization of a low-cost and low-power visible light positioning system. Applied Optics, 2019, 58, 7181.	1.8	7
56	Characterization and performance analysis of a chiral-metamaterial channel with Giant Optical Activity for terahertz communications. Nano Communication Networks, 2016, 9, 28-35.	2.9	6
57	Analysis of the Chirality Effects on the Capacity of Wireless Communication Systems in the THz Band. IEEE Transactions on Wireless Communications, 2017, 16, 7848-7858.	9.2	6
58	Social Structure Analysis in Internet of Vehicles. , 2018, , .		6
59	A VLC-based Footprinting Localization Algorithm for Internet of Underwater Things in 6G networks. , 2021, , .		6
60	CAREFOR: Collision-aware reliable forwarding technique for vehicular ad hoc networks. , 2013, , .		5
61	QoS-aware Node Selection Algorithm for Routing Protocols in VANETs. Procedia Computer Science, 2014, 40, 66-73.	2.0	5
62	SCARF. , 2017, , .		5
63	A Molecular Optical Channel Model Based on Phonon-Assisted Energy Transfer Phenomenon. IEEE Transactions on Communications, 2018, 66, 6247-6259.	7.8	5
64	SOLVER: A Framework for the Integration of Online Social Networks with Vehicular Social Networks. IEEE Network, 2020, 34, 204-213.	6.9	5
65	QoSHVCP: Hybrid Vehicular Communications Protocol with QoS Prioritization for Safety Applications. ISRN Communications and Networking, 2012, 2012, 1-14.	0.5	5
66	On the Affection of the Human Immune System on a Nanoparticulate Nanomedicine System. , 2014, , .		5
67	Internet of Things security and privacy: Design methods and optimization. Ad Hoc Networks, 2015, 32, 1-2.	5.5	4
68	Wireless cognitive network technologies and protocols. , 2015, , 119-153.		4
69	In-Body Network Biomedical Applications: From Modeling to Experimentation. IEEE Transactions on Nanobioscience, 2016, 15, 53-61.	3.3	4
70	Communication Technologies Enabling Effective UAV Networks: A Standards Perspective. IEEE Communications Standards Magazine, 2021, 5, 33-40.	4.9	4
71	Performance of a Chirality-affected Channel exhibiting Giant Optical Activity for Terahertz Communications. , 2016, , .		3
72	MetaSurface Structure Design and Channel Modelling for THz Band Communications. , 2019, , .		3

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73	Analysis of Small-World Features in Vehicular Social Networks. , 2019, , .		3
74	Neuro-Dominating set scheme for a fast and efficient robot deployment in internet of robotic things. Ad Hoc Networks, 2019, 86, 36-45.	5.5	3
75	Model of Multi-Source Nanonetworks for the Detection of BRCA1 DNA Alterations Based on LSPR Phenomenon. Advances in Nanoparticles, 2013, 02, 301-312.	1.0	3
76	Security implementation in heterogeneous networks with long delay channel. , 2012, , .		2
77	Opportunistic clusters selection in a reliable enhanced broadcast protocol for vehicular ad hoc networks. , 2013, , .		2
78	Channel Modeling in a Phonon-based Quantum Network for Nano-communications. , 2016, , .		2
79	Capacity Evaluation of a Quantum-Based Channel in a Biological Context. IEEE Transactions on Nanobioscience, 2016, 15, 901-907.	3.3	2
80	Chirality effects on channel modeling for THz-band wireless communications in LoS/NLoS propagation. Nano Communication Networks, 2016, 10, 27-37.	2.9	2
81	Visible Light indoor positioning through colored LEDs. , 2017, , .		2
82	On the Noise Effect of Fingerprinting-Based Positioning Error in Underwater Visible Light Networks. Sensors, 2021, 21, 5398.	3.8	2
83	Modeling and Experimental Analysis of an In-body Area Nanonetwork. , 2015, , .		2
84	Local positioning services on IEEE 802.11 networks. , 2007, , .		1
85	Graphene Bow-tie Nanoantenna for Wireless Communications in the Terahertz Band. , 2007, , .		1
86	Localization services in hybrid self-organizing networks. , 2010, , .		1
87	Detection of DNA alterations using gold nanoparticles exploiting the LSP phenomenon. , 2013, , .		1
88	Innovative Radiating Systems for Train Localization in Interference Conditions. International Journal of Antennas and Propagation, 2013, 2013, 1-13.	1.2	1
89	Data Forwarding Techniques Based on Graph Theory Metrics in Vehicular Social Networks. , 2018, , .		1
90	Connectivity Management in an Integrated Heterogeneous Social Networks Framework in Vehicular Environments. , 2021, , .		1

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91	MOVES: A MemOry-based VEhicular Social forwarding technique. Computer Networks, 2021, 197, 108324.	5.1	1
92	A Tool for Modeling, Design and Applications of MetaSurfaces. , 2018, , .		1
93	Electromagnetic Nanonetworks for Sensing and Drug Delivery. Modeling and Optimization in Science and Technologies, 2017, , 473-501.	0.7	1
94	Recent Advances in Body Area NanoNetworks: Electromagnetic, Materials and Communications. , 2017, , .		1
95	Controlling Light by Curvilinear MetaSurfaces. , 2019, , .		1
96	Collisionâ€free cooperative Unmanned Aerial Vehicle protocols for sustainable aerial services. IET Smart Cities, 0, , .	3.1	1
97	Reliability tradeoffs for energy efficient wireless networks. , 2012, , .		0
98	Design of miniaturized radiating systems for GNSS applications in interference conditions. , 2013, , .		0
99	Error Probability Derivation in a Phonon-Based Quantum Channel. , 2018, , .		0
100	Guest Editorial Special Issue on Recent Advances on Social Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 2420-2422.	8.7	0
101	Evaluation of Channel Capacity of a 3D Curvilinear Metasurface in the THz band. , 2021, , .		0
102	LAPSE: A Machine Learning Message Forwarding Approach based on Node Centrality Estimation in Sparse Dynamic Networks. , 2021, , .		0