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	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
2	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
3	Evaluation of Channel Capacity of a 3D Curvilinear Metasurface in the THz band. , 2021, , .		0
4	LAPSE: A Machine Learning Message Forwarding Approach based on Node Centrality Estimation in Sparse Dynamic Networks. , 2021, , .		0
5	On the Noise Effect of Fingerprinting-Based Positioning Error in Underwater Visible Light Networks. Sensors, 2021, 21, 5398.	3.8	2
6	Connectivity Management in an Integrated Heterogeneous Social Networks Framework in Vehicular Environments. , 2021, , .		1
7	MOVES: A MemOry-based VEhicular Social forwarding technique. Computer Networks, 2021, 197, 108324.	5.1	1
8	A VLC-based Footprinting Localization Algorithm for Internet of Underwater Things in 6G networks. , 2021, , .		6
9	Drone Networking in the 6G Era: A Technology Overview. IEEE Communications Standards Magazine, 2021, 5, 88-95.	4.9	23
10	Communication Technologies Enabling Effective UAV Networks: A Standards Perspective. IEEE Communications Standards Magazine, 2021, 5, 33-40.	4.9	4
11	Data Transmissions Using Hub Nodes in Vehicular Social Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1570-1585.	5.8	17
12	SOLVER: A Framework for the Integration of Online Social Networks with Vehicular Social Networks. IEEE Network, 2020, 34, 204-213.	6.9	5
13	Optimising message broadcasting in opportunistic networks. Computer Communications, 2020, 157, 162-178.	5.1	8
14	A social internet of vehicles sharing SIoT relationships. , 2019, , .		7
15	MetaSurface Structure Design and Channel Modelling for THz Band Communications. , 2019, , .		3
16	Analysis of Small-World Features in Vehicular Social Networks. , 2019, , .		3
17	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
18	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

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19	TACASHI: Trust-Aware Communication Architecture for Social Internet of Vehicles. IEEE Internet of Things Journal, 2019, 6, 5870-5877.	8.7	59
20	Interference cancellation in MIMO NLOS optical-camera-communication-based intelligent transport systems. Applied Optics, 2019, 58, 9384.	1.8	12
21	Optimal LED placement in indoor VLC networks. Optics Express, 2019, 27, 8504.	3.4	30
22	Preliminary design and characterization of a low-cost and low-power visible light positioning system. Applied Optics, 2019, 58, 7181.	1.8	7
23	Controlling Light by Curvilinear MetaSurfaces. , 2019, , .		1
24	Link Selection in Hybrid RF/VLC Systems Under Statistical Queueing Constraints. IEEE Transactions on Wireless Communications, 2018, 17, 2738-2754.	9.2	45
25	A multi-cell lighting testbed for VLC and VLP. , 2018, , .		19
26	Data Forwarding Techniques Based on Graph Theory Metrics in Vehicular Social Networks. , 2018, , .		1
27	Error Probability Derivation in a Phonon-Based Quantum Channel. , 2018, , .		0
28	Hybrid RF/LC Systems under QoS Constraints. , 2018, , .		13
29	Resource allocation and interference management in OFDMA-based VLC networks. Physical Communication, 2018, 31, 169-180.	2.1	21
30	Social Structure Analysis in Internet of Vehicles. , 2018, , .		6
31	Resource allocation in a multi-color DS-OCDMA VLC cellular architecture. Optics Express, 2018, 26, 5940.	3.4	18
32	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
33	A Molecular Optical Channel Model Based on Phonon-Assisted Energy Transfer Phenomenon. IEEE Transactions on Communications, 2018, 66, 6247-6259.	7.8	5
34	Guest Editorial Special Issue on Recent Advances on Social Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 2420-2422.	8.7	0
35	Towards Efficient Deployment in Internet of Robotic Things. Internet of Things, 2018, , 21-37.	1.7	11
36	A Tool for Modeling, Design and Applications of MetaSurfaces. , 2018, , .		1

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37	Metameric Indoor Localization Schemes Using Visible Lights. Journal of Lightwave Technology, 2017, 35, 2933-2942.	4.6	14
38	A Bayesian and smart gateway based communication for noisy IoT scenario. , 2017, , .		7
39	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
40	Design of a cognitive VLC network with illumination and handover requirements. , 2017, , .		12
41	Visible Light indoor positioning through colored LEDs. , 2017, , .		2
42	Security Access Protocols in IoT Capillary Networks. IEEE Internet of Things Journal, 2017, 4, 645-657.	8.7	56
43	Efficient Bayesian Communication Approach for Smart Agriculture Applications. , 2017, , .		10
44	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
45	SCARF. , 2017, , .		5
46	Electromagnetic Nanonetworks for Sensing and Drug Delivery. Modeling and Optimization in Science and Technologies, 2017, , 473-501.	0.7	1
47	Recent Advances in Body Area NanoNetworks: Electromagnetic, Materials and Communications. , 2017, , .		1
48	Channel Modeling in a Phonon-based Quantum Network for Nano-communications. , 2016, , .		2
49	Capacity Evaluation of a Quantum-Based Channel in a Biological Context. IEEE Transactions on Nanobioscience, 2016, 15, 901-907.	3.3	2
50	A Neural Network and IoT Based Scheme for Performance Assessment in Internet of Robotic Things. , 2016, , .		28
51	A Bayesian Packet Sharing Approach for Noisy IoT Scenarios. , 2016, , .		7
52	Chirality effects on channel modeling for THz-band wireless communications in LoS/NLoS propagation. Nano Communication Networks, 2016, 10, 27-37.	2.9	2
53	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
54	Performance of a Chirality-affected Channel exhibiting Giant Optical Activity for Terahertz Communications. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
55	In-Body Network Biomedical Applications: From Modeling to Experimentation. IEEE Transactions on Nanobioscience, 2016, 15, 53-61.	3.3	4
56	On the Interaction between a Nanoparticulate System and the Human Body in Body Area Nanonetworks. Micromachines, 2015, 6, 1213-1235.	2.9	9
57	An Acoustic Communication Technique of Nanorobot Swarms for Nanomedicine Applications. IEEE Transactions on Nanobioscience, 2015, 14, 598-607.	3.3	23
58	Internet of Things security and privacy: Design methods and optimization. Ad Hoc Networks, 2015, 32, 1-2.	5.5	4
59	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
60	LAST: A Framework to Localize, Access, Schedule, and Transmit in Indoor VLC Systems. Journal of Lightwave Technology, 2015, 33, 1872-1887.	4.6	55
61	Wireless cognitive network technologies and protocols. , 2015, , 119-153.		4
62	A Survey on Vehicular Social Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 2397-2419.	39.4	217
63	Forwarder smart selection protocol for limitation of broadcast storm problem. Journal of Network and Computer Applications, 2015, 47, 61-71.	9.1	26
64	Modeling and Experimental Analysis of an In-body Area Nanonetwork. , 2015, , .		2
65	QoS-aware Node Selection Algorithm for Routing Protocols in VANETs. Procedia Computer Science, 2014, 40, 66-73.	2.0	5
66	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
67	Security Access Protocols in IoT Networks with Heterogenous Non-IP Terminals. , 2014, , .		7
68	A hybrid (N/M)CHO soft/hard vertical handover technique for heterogeneous wireless networks. Ad Hoc Networks, 2014, 14, 51-70.	5.5	45
69	On the Affection of the Human Immune System on a Nanoparticulate Nanomedicine System. , 2014, , .		5
70	Opportunistic clusters selection in a reliable enhanced broadcast protocol for vehicular ad hoc networks. , 2013, , .		2
71	Detection of DNA alterations using gold nanoparticles exploiting the LSP phenomenon. , 2013, , .		1
72	Modeling of Intermittent Connectivity inÂOpportunistic Networks: The Case of Vehicular Ad hoc Networks. , 2013, , 179-207.		7

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73	Enabling high data rate VLC via MIMO-LEDs PPM. , 2013, , .		21
74	Design of miniaturized radiating systems for GNSS applications in interference conditions. , 2013, , .		0
75	CAREFOR: Collision-aware reliable forwarding technique for vehicular ad hoc networks. , 2013, , .		5
76	Innovative Radiating Systems for Train Localization in Interference Conditions. International Journal of Antennas and Propagation, 2013, 2013, 1-13.	1.2	1
77	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
78	ICDMS: An Intelligent Cloud Based Disaster Management System for Vehicular Networks. Lecture Notes in Computer Science, 2012, , 40-56.	1.3	23
79	Reliability tradeoffs for energy efficient wireless networks. , 2012, , .		0
80	SRB: A Selective Reliable Broadcast protocol for safety applications in VANETs. , 2012, , .		16
81	LAT indoor MIMO-VLC &#x2014; Localize, access and transmit. , 2012, , .		32
82	Handover in VLC systems with cooperating mobile devices. , 2012, , .		63
83	Security implementation in heterogeneous networks with long delay channel. , 2012, , .		2
84	An indoor localization algorithm in a small-cell LED-based lighting system. , 2012, , .		40
85	QoSHVCP: Hybrid Vehicular Communications Protocol with QoS Prioritization for Safety Applications. ISRN Communications and Networking, 2012, 2012, 1-14.	0.5	5
86	A hybrid Radio Frequency and broadcast Visible Light Communication system. , 2011, , .		179
87	Hybrid vehicular communications based on V2V-V2I protocol switching. International Journal of Vehicle Information and Communication Systems, 2011, 2, 213.	0.1	26
88	A fountain codes-based data dissemination technique in vehicular Ad-hoc networks. , 2011, , .		15
89	A V2X-based approach for reduction of delay propagation in vehicular Ad-Hoc networks. , 2011, , .		18
90	DOA and TOA Based Localization Services Protocol in IEEE 802.11 Networks. Wireless Personal Communications, 2010, 54, 155-168.	2.7	12

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91	A Cross-Layer Location-Based Approach for Mobile-Controlled Connectivity. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-13.	0.6	9
92	Localization services in hybrid self-organizing networks. , 2010, , .		1
93	On modeling speed-based vertical handovers in vehicular networks: &#x201C;Dad, slow down, I am watching the movie&#x201D;. , 2010, , .		17
94	A Combined Vertical Handover Decision Metric for QoS Enhancement in Next Generation Networks. , 2009, , .		18
95	Location aware mobility assisted services for heterogeneous wireless technologies. , 2009, , .		7
96	A probability based vertical handover approach to prevent ping-pong effect. , 2009, , .		11
97	A reactive vertical handover approach for WiFi-UMTS dual-mode terminals. , 2008, , .		7
98	A Location-Based Vertical Handover Algorithm for Limitation of the Ping-Pong Effect. , 2008, , .		37
99	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
100	Local positioning services on IEEE 802.11 networks. , 2007, , .		1
101	Graphene Bow-tie Nanoantenna for Wireless Communications in the Terahertz Band. , 2007, , .		1
102	Collisionâ€free cooperative Unmanned Aerial Vehicle protocols for sustainable aerial services. IET Smart Cities, 0, , .	3.1	1