

# Francesca Cuomo

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

2,140  
citations

430874

18  
h-index

377865

34  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Routing in cognitive radio networks: Challenges and solutions. Ad Hoc Networks, 2011, 9, 228-248.	5.5	257
2	Funneling-MAC. , 2006, , .		213
3	Radio resource sharing for ad hoc networking with UWB. IEEE Journal on Selected Areas in Communications, 2002, 20, 1722-1732.	14.0	169
4	EXPLoRa: Extending the performance of LoRa by suitable spreading factor allocations. , 2017, , .		141
5	Gymkhana: A Connectivity-Based Routing Scheme for Cognitive Radio Ad Hoc Networks. , 2010, , .		89
6	Cross-layer network formation for energy-efficient IEEE 802.15.4/ZigBee Wireless Sensor Networks. Ad Hoc Networks, 2013, 11, 672-686.	5.5	65
7	A distributed beaconless routing protocol for real-time video dissemination in multimedia VANETs. Computer Communications, 2015, 58, 40-52.	5.1	50
8	Vehicular Ad-Hoc Networks sampling protocols for traffic monitoring and incident detection in Intelligent Transportation Systems. Transportation Research Part C: Emerging Technologies, 2015, 56, 177-194.	7.6	47
9	Performance analysis of IEEE 802.15.4 wireless sensor networks: An insight into the topology formation process. Computer Networks, 2009, 53, 3057-3075.	5.1	45
10	Understanding Spurious Message Forwarding in VANET Beaconless Dissemination Protocols: An Analytical Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 2243-2258.	6.3	41
11	Distributed Self-Healing and Variable Topology Optimization Algorithms for QoS Provisioning in Scatternets. IEEE Journal on Selected Areas in Communications, 2004, 22, 1220-1236.	14.0	39
12	Network pruning for energy saving in the Internet. Computer Networks, 2012, 56, 2355-2367.	5.1	39
13	Keeping the connectivity and saving the energy in the internet. , 2011, , .		36
14	Infotainment services based on push-mode dissemination in an integrated VANET and 3G architecture. Journal of Communications and Networks, 2013, 15, 179-190.	2.6	34
15	Road Side Unit coverage extension for data dissemination in VANETs. , 2012, , .		31
16	Enhanced VANET broadcast throughput capacity via a dynamic backbone architecture. Ad Hoc Networks, 2014, 21, 42-59.	5.5	30
17	An Empirical Model of Multiview Video Coding Efficiency for Wireless Multimedia Sensor Networks. IEEE Transactions on Multimedia, 2013, 15, 1800-1814.	7.2	27
18	Towards traffic-oriented spreading factor allocations in LoRaWAN systems. , 2018, , .		25

#	ARTICLE	IF	CITATIONS
19	Heterogeneous cellular and DSRC networking for Floating Car Data collection in urban areas. Vehicular Communications, 2017, 8, 21-34.	4.0	24
20	Q-SQUARE: A Q-learning approach to provide a QoE aware UAV flight path in cellular networks. Ad Hoc Networks, 2019, 91, 101872.	5.5	24
21	HIRO-NET: Self-Organized Robotic Mesh Networking for Internet Sharing in Disaster Scenarios. , 2019, , .		23
22	What is the Best Spatial Distribution to Model Base Station Density? A Deep Dive into Two European Mobile Networks. IEEE Access, 2016, 4, 1434-1443.	4.2	22
23	Capture Aware Sequential Waterfilling for LoRaWAN Adaptive Data Rate. IEEE Transactions on Wireless Communications, 2021, 20, 2019-2033.	9.2	22
24	Leveraging the Algebraic Connectivity of a Cognitive Network for Routing Design. IEEE Transactions on Mobile Computing, 2012, 11, 1163-1178.	5.8	21
25	Infotainment traffic flow dissemination in an urban VANET. , 2012, , .		20
26	An integrated VANET-based data dissemination and collection protocol for complex urban scenarios. Ad Hoc Networks, 2016, 52, 28-38.	5.5	18
27	Joint Optimization of Area Throughput and Grid-Connected Microgeneration in UAV-Based Mobile Networks. IEEE Access, 2019, 7, 69545-69558.	4.2	18
28	ESOL: Energy saving in the Internet based on Occurrence of Links in routing paths. , 2011, , .		17
29	Timer-Based Distributed Dissemination Protocols for VANETs and Their Interaction with MAC Layer. , 2013, , .		17
30	A Cross-Layer Bandwidth Allocation Scheme for HTTP-Based Video Streaming in LTE Cellular Networks. IEEE Communications Letters, 2017, 21, 386-389.	4.1	17
31	Timely Delivery Versus Bandwidth Allocation for DASH-Based Video Streaming Over LTE. IEEE Communications Letters, 2016, 20, 586-589.	4.1	16
32	Drone Cellular Networks: Enhancing the Quality Of Experience of video streaming applications. Ad Hoc Networks, 2018, 78, 1-12.	5.5	15
33	Securing Bluetooth Low Energy networking: An overview of security procedures and threats. Computer Networks, 2022, 211, 108953.	5.1	15
34	Radio resource management in infrastructure-based and ad hoc UWB networks. Wireless Communications and Mobile Computing, 2005, 5, 581-597.	1.2	14
35	Ad hoc networking with Bluetooth: key metrics and distributed protocols for scatternet formation. Ad Hoc Networks, 2004, 2, 185-202.	5.5	13
36	GPS aided inter-vehicular wireless networking. , 2013, , .		13

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37	Traffic monitoring and incident detection through VANETs. , 2014, , .		13
38	Investigating VANET dissemination protocols performance under high throughput conditions. Vehicular Communications, 2015, 2, 185-194.	4.0	13
39	Mobile HTTP-based streaming using flexible LTE base station control. , 2015, , .		13
40	A measurement study of short-time cell outages in mobile cellular networks. Computer Communications, 2016, 79, 92-102.	5.1	12
41	CLEVER: A Cooperative and Cross-Layer Approach to Video Streaming in HetNets. IEEE Transactions on Mobile Computing, 2018, 17, 1497-1510.	5.8	12
42	Predicting LoRaWAN Behavior: How Machine Learning Can Help. Computers, 2020, 9, 60.	3.3	12
43	A multi-hop broadcast wave approach for floating car data collection in vehicular networks. Vehicular Communications, 2020, 24, 100232.	4.0	12
44	IP QoS delivery in a broadband wireless local loop: MAC protocol definition and performance evaluation. IEEE Journal on Selected Areas in Communications, 2000, 18, 1608-1622.	14.0	11
45	Connectivity-Driven Routing for Cognitive Radio Ad-Hoc Networks. , 2010, , .		11
46	A Clustering Approach for Profiling LoRaWAN IoT Devices. Lecture Notes in Computer Science, 2019, , 58-74.	1.3	11
47	Optimum Tree-Based Topologies for Multi-Sink Wireless Sensor Networks Using IEEE 802.15.4. IEEE Vehicular Technology Conference, 2007, , .	0.4	10
48	Measuring the connectivity of a cognitive radio ad-hoc network. IEEE Communications Letters, 2010, 14, 417-419.	4.1	10
49	Probabilistic relay selection in timer-based dissemination protocols for VANETs. , 2014, , .		10
50	Adaptive Data Synchronization Algorithm for IoT-Oriented Low-Power Wide-Area Networks. Sensors, 2018, 18, 4053.	3.8	10
51	Epidemic and Timer-Based Message Dissemination in VANETs: A Performance Comparison. Electronics (Switzerland), 2020, 9, 595.	3.1	10
52	Protein-Protein Interaction Prediction via Graph Signal Processing. IEEE Access, 2021, 9, 142681-142692.	4.2	10
53	Cloud-assisted buffer management for HTTP-based mobilevideo streaming. , 2013, , .		9
54	Intrusion Detection System for Bluetooth Mesh Networks: Data Gathering and Experimental Evaluations. , 2021, , .		9

#	ARTICLE	IF	CITATIONS
55	LoRaWAN Behaviour Analysis through Dataset Traffic Investigation. Sensors, 2022, 22, 2470.	3.8	9
56	Analysis of k-connectivity of a cognitive radio ad-hoc network. , 2009, , .		8
57	Vehicular backbone networking protocol for highway broadcasting using directional antennas. , 2013, , .		8
58	Micro base station aided vehicular ad hoc networking. , 2014, , .		8
59	Performance evaluation of sender-assisted HTTP-based video streaming in wireless ad hoc networks. Ad Hoc Networks, 2015, 24, 74-84.	5.5	8
60	DAFNES: A distributed algorithm for network energy saving based on stress-centrality. Computer Networks, 2016, 94, 263-284.	5.1	7
61	Nano-wireless communications for microrobotics: An algorithm to connect networks of microrobots. Nano Communication Networks, 2017, 12, 53-62.	2.9	7
62	Recent Developments on Mobile Ad-Hoc Networks and Vehicular Ad-Hoc Networks. Electronics (Switzerland), 2021, 10, 364.	3.1	7
63	Exploratory approach for network behavior clustering in LoRaWAN. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15745-15759.	4.9	7
64	Architectures and protocols for mobile computing applications: a reconfigurable approach. Computer Networks, 2004, 44, 545-567.	5.1	6
65	Vehicular Backbone Network Approach to Vehicular Military Ad Hoc Networks. , 2013, , .		6
66	Fatigue-Aware Management of Cellular Networks Infrastructure with Sleep Modes. IEEE Transactions on Mobile Computing, 2017, 16, 3028-3041.	5.8	6
67	Joint Management of Energy Consumption, Maintenance Costs, and User Revenues in Cellular Networks With Sleep Modes. IEEE Transactions on Green Communications and Networking, 2017, 1, 167-181.	5.5	6
68	Quality Aware Aerial-to-Ground 5G Cells through Open-Source Software. , 2019, , .		6
69	Constraining the network topology in IEEE 802.15.4. International Federation for Information Processing, 2008, , 167-178.	0.4	6
70	Discovery privacy threats via device de-anonymization in LoRaWAN. Computer Communications, 2022, 189, 1-10.	5.1	6
71	Impact of primary users on the connectivity of a cognitive radio network. , 2010, , .		5
72	BLUES: A Self-organizing BLE Mesh-network Paradigm for IoT Environments. , 2020, , .		5

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73	Rapid Dissemination of Public Safety Message Flows in Vehicular Networks. Journal of Communications, 2014, 9, 616-626.	1.6	5
74	Optimizing the radio resource utilization of multiaccess systems with a traffic-transmission quality adaptive packet scheduling. Computer Networks, 2002, 38, 225-246.	5.1	4
75	Ultra Wide Band WLANs: A Self-Configuring Resource Control Scheme for Accessing UWB Hot-Spots with QoS Guarantees. Mobile Networks and Applications, 2005, 10, 727-739.	3.3	4
76	Leveraging Multiview Video Coding in clustered Multimedia Sensor networks. , 2012, , .		4
77	An Opportunistic Access Scheme Through Distributed Interference Control for MIMO Cognitive Nodes. IEEE Transactions on Wireless Communications, 2013, 12, 6500-6513.	9.2	4
78	Sleep to Stay Healthy: Managing the Lifetime of Energy-Efficient Cellular Networks. , 2015, , .		4
79	Nano-wireless Communication for Microrobotics. , 2015, , .		4
80	A reality check of Base Station Spatial Distribution in mobile networks. , 2016, , .		4
81	Joint Adaptive Rate and Scheduling for Unicasting Video Streams in Cellular Wireless Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 8398-8412.	6.3	4
82	Demo Abstract: BE-Mesh: Bluetooth Low Energy Mesh Networking. , 2019, , .		4
83	HIRO-NET: Heterogeneous Intelligent Robotic Network for Internet Sharing in Disaster Scenarios. IEEE Transactions on Mobile Computing, 2022, 21, 4367-4380.	5.8	4
84	Comparison of utility functions for routing in cognitive wireless ad-hoc networks. , 2011, , .		3
85	Primary and secondary nodes coexistence through opportunistic MIMO Cognitive Radio. , 2012, , .		3
86	Self-Healing Infotainment and Safety Application for VANET dissemination. , 2015, , .		3
87	Traffic monitoring and incident detection using cellular and early stage VANET technology deployment. , 2016, , .		3
88	Qoe-Aware UAV Flight Path Design for Mobile Video Streaming in HetNet. , 2018, , .		3
89	EPIC. , 2019, , .		3
90	A Reinforcement Learning Environment for Multi-Service UAV-enabled Wireless Systems. , 2021, , .		3

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91	Ruling Out IoT Devices in LoRaWAN. , 2022, , .		3
92	Performance analysis of a prototypal multimedia service in an intelligent broadband network. Computer Communications, 2000, 23, 341-361.	5.1	2
93	Topology reconfiguration in IEEE 802.15.4 WPANs for emergency management. , 2010, , .		2
94	Hidden Primary User Awareness in Cognitive Radio Routing: The SBBO Protocol. , 2010, , .		2
95	A distributed backbone-based framework for live video sharing in VANETs. , 2014, , .		2
96	Sleep to Stay Healthy: Managing the Lifetime of Energy-Efficient Cellular Networks. , 2014, , .		2
97	Sustainable management of LTE networks. , 2016, , .		2
98	LIFETEL: Managing the Energy-Lifetime Trade-off in Telecommunication Networks. , 2016, 54, 150-157.		2
99	A measurement-based analysis of temperature variations introduced by power management on Commodity HardWare. , 2017, , .		2
100	Affordable delay based quality selection for HTTP adaptive video streaming. , 2017, , .		2
101	Adaptive Data Update for Cloud-based Internet of Things applications. , 2019, , .		2
102	On Cellular Networks Supporting Healthcare Remote Monitoring in IoT Scenarios. Frontiers in Communications and Networks, 2021, 2, .	3.0	2
103	Energy and Quality Aware Multi-UAV Flight Path Design Through Q-Learning Algorithms. Lecture Notes in Computer Science, 2019, , 246-257.	1.3	2
104	Premium quality or guaranteed fluidity? Client-transparent DASH-aware bandwidth allocation at the radio access network. Journal of Communications and Networks, 2022, 24, 59-67.	2.6	2
105	Hijacking Downlink Path Selection in LoRaWAN. , 2021, , .		2
106	Experimental study on luminance preprocessing for energy-aware HTTP-based mobile video streaming. , 2014, , .		1
107	Ownership Benefits/Costs Analysis of Green Cellular Networks. , 2016, , .		1
108	Dynamic and cooperative mobile video streaming across heterogeneous cellular networks. , 2016, , .		1

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109	Balancing infrastructure fatigue, energy consumption and user profits in cellular networks. , 2016, , .		1
110	A Multi-Layer Parametric Approach to Maximize the Access Probability of Mobile Networks. IEEE Access, 2016, 4, 6692-6703.	4.2	1
111	Efficient video streaming of 360° cameras in Unmanned Aerial Vehicles: an analysis of real video sources. , 2018, , .		1
112	An On-line Spreading Factor Allocation for a LoRaWAN Network. , 2019, , .		1
113	Data Conformity Evaluation: A Novel Approach for IoT Security. , 2019, , .		1
114	DISCOVER. , 2015, , .		1
115	Comparative Analysis of Data Driven Prediction Modeling Strategies for Aquaculture Healthcare. , 2021, , .		1
116	Adaptive UWB Systems. , 2005, , 429-450.		0
117	Joint Adaptive Rate and Scheduling for Video Streaming in Multi-Cell Cellular Wireless Networks. , 2014, , .		0
118	Quality Of Experience Meets Operators Revenue: Dash Aware Management for Mobile Streaming. , 2019, , .		0
119	Delivering Resources for Augmented Reality by UAVs: a Reinforcement Learning Approach. Frontiers in Communications and Networks, 2021, 2, .	3.0	0
120	A Comparison of MAC Protocols for Ultrasonic Intra-body Sensor Networks. , 2014, , .		0