Andrea Passarella

List of Publications by Year
in descending order

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180	8,110	172457	79698
papers	citations	29 h-index	73 g-index

203	203	203	6033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy conservation in wireless sensor networks: A survey. Ad Hoc Networks, 2009, 7, 537-568.	5.5	2,114
2	Opportunistic networking: data forwarding in disconnected mobile ad hoc networks. , 2006, 44, 134-141.		938
3	Data Offloading Techniques in Cellular Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 580-603.	39.4	291
4	The structure of online social networks mirrors those in the offline world. Social Networks, 2015, 43, 39-47.	2.1	271
5	Looking ahead in pervasive computing: Challenges and opportunities in the era of cyberâ€“physical convergence. Pervasive and Mobile Computing, 2012, 8, 2-21.	3.3	239
6	From opportunistic networks to opportunistic computing. , 2010, 48, 126-139.		221
7	HCMM: Modelling spatial and temporal properties of human mobility driven by usersâ€™ social relationships. Computer Communications, 2010, 33, 1056-1074.	5.1	200
8	HiBOp: a History Based Routing Protocol for Opportunistic Networks. , 2007, , .		189
9	A survey on content-centric technologies for the current Internet: CDN and P2P solutions. Computer Communications, 2012, 35, 1-32.	5.1	185
10	Human mobility models for opportunistic networks. , 2011, 49, 157-165.		175
11	Exploiting usersâ€™ social relations to forward data in opportunistic networks: The HiBOp solution. Pervasive and Mobile Computing, 2008, 4, 633-657.	3.3	153
12	ContentPlace. , 2008, , .		123
13	The Internet of People (IoP): A new wave in pervasive mobile computing. Pervasive and Mobile Computing, 2017, 41, 1-27.	3.3	115
14	Egocentric online social networks: Analysis of key features and prediction of tie strength in Facebook. Computer Communications, 2013, 36, 1130-1144.	5.1	110
15	Data Management in Industry 4.0: State of the Art and Open Challenges. IEEE Access, 2019, 7, 97052-97093.	4.2	99
16	Design and performance evaluation of ContentPlace, a social-aware data dissemination system for opportunistic networks. Computer Networks, 2010, 54, 589-604.	5.1	98
17	Context- and social-aware middleware for opportunistic networks. Journal of Network and Computer Applications, 2010, 33, 525-541.	9.1	76
18	Analysis of Ego Network Structure in Online Social Networks. , 2012, , .		75

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19	Online Social Networks and information diffusion: The role of ego networks. Online Social Networks and Media, 2017, 1, 44-55.	3.6	73
20	Analysis of Individual Pair and Aggregate Intercontact Times in Heterogeneous Opportunistic Networks. IEEE Transactions on Mobile Computing, 2013, 12, 2483-2495.	5.8	67
21	802.11 power-saving mode for mobile computing in Wi-Fi hotspots: Limitations, enhancements and open issues. Wireless Networks, 2008, 14, 745-768.	3.0	59
22	A Decentralized Framework for Serverless Edge Computing in the Internet of Things. IEEE Transactions on Network and Service Management, 2021, 18, 2166-2180.	4.9	57
23	Understanding the real behavior of Mote and 802.11 ad hoc networks: an experimental approach. Pervasive and Mobile Computing, 2005, 1, 237-256.	3.3	56
24	Ego network structure in online social networks and its impact on information diffusion. Computer Communications, 2016, 76, 26-41.	5.1	56
25	Modelling data dissemination in opportunistic networks. , 2008, , .		56
26	Managing social contents in Decentralized Online Social Networks: A survey. Online Social Networks and Media, 2018, 7, 12-29.	3.6	52
27	An Adaptive Data-transfer Protocol for Sensor Networks with Data Mules. , 2007, , .		51
28	Human migration: the big data perspective. International Journal of Data Science and Analytics, 2021, 11, 341-360.	4.1	47
29	A BitTorrent proxy for Green Internet file sharing: Design and experimental evaluation. Computer Communications, 2010, 33, 794-802.	5.1	42
30	Minimum-Delay Service Provisioning in Opportunistic Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1267-1275.	5.6	41
31	Dynamics of personal social relationships in online social networks. , 2013, , .		40
32	Impact of Social Mobility on Routing Protocols for Opportunistic Networks. , 2007, , .		35
33	Performance modelling of opportunistic forwarding under heterogenous mobility. Computer Communications, 2014, 48, 56-70.	5.1	35
34	Toward Distributed Computing Environments with Serverless Solutions in Edge Systems. IEEE Communications Magazine, 2020, 58, 40-46.	6.1	35
35	The Internet of People: A human and data-centric paradigm for the Next Generation Internet. Computer Communications, 2018, 131, 51-65.	5.1	34
36	Give more data, awareness and control to individual citizens, and they will help COVID-19 containment. Ethics and Information Technology, 2021, 23, 1-6.	3.8	33

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37	Emerging Trends in Hybrid Wireless Communication and Data Management for the Industry 4.0. Electronics (Switzerland), 2018, 7, 400.	3.1	32
38	Service Composition in Opportunistic Networks: A Load and Mobility Aware Solution. IEEE Transactions on Computers, 2015, 64, 2308-2322.	3.4	31
39	Context and resource awareness in opportunistic network data dissemination. , 2008, , .		29
40	Ego network models for Future Internet social networking environments. Computer Communications, 2012, 35, 2201-2217.	5.1	29
41	Characterising Aggregate Inter-contact Times in Heterogeneous Opportunistic Networks. Lecture Notes in Computer Science, 2011, , 301-313.	1.3	29
42	Mobile edge clouds for Information-Centric IoT services. , 2016, , .		28
43	A communication efficient distributed learning framework for smart environments. Pervasive and Mobile Computing, 2017, 41, 46-68.	3.3	28
44	Performance Analysis of Latency-Aware Data Management in Industrial IoT Networks. Sensors, 2018, 18, 2611.	3.8	27
45	SCAMPI. Computer Communication Review, 2012, 42, 503-508.	1.8	26
46	Energy efficient distributed analytics at the edge of the network for IoT environments. Pervasive and Mobile Computing, 2018, 51, 27-42.	3.3	26
47	Request Scheduling in Quantum Networks. IEEE Transactions on Quantum Engineering, 2021, 2, 2-17.	4.9	26
48	A performance study of power-saving polices for Wi-Fi hotspots. Computer Networks, 2004, 45, 295-318.	5.1	25
49	Using buddies to live longer in a boring world. , 0, , .		23
50	Efficient social-aware content placement in opportunistic networks. , 2010, , .		23
51	Robust Adaptive Modulation and Coding (AMC) Selection in LTE Systems Using Reinforcement Learning. , 2014, , .		22
52	Routing Issues in Opportunistic Networks. , 2009, , 121-147.		21
53	SCAMPI. , 2012, , .		21
54	Analysis of Co-authorship Ego Networks. Lecture Notes in Computer Science, 2016, , 82-96.	1.3	21

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55	Maximizing industrial IoT network lifetime under latency constraints through edge data distribution. , 2018, , .		21
56	Performance comparison of power-saving strategies for mobile Web access. Performance Evaluation, 2003, 53, 273-294.	1.2	20
57	A power-aware multimedia streaming protocol for mobile users. , 0, , .		20
58	An adaptive and low-latency power management protocol for wireless sensor networks. , 2006, , .		20
59	A joint multicast/D2D learning-based approach to LTE traffic offloading. Computer Communications, 2015, 72, 26-37.	5.1	20
60	Design and Performance Evaluation of Data Dissemination Systems for Opportunistic Networks Based on Cognitive Heuristics. ACM Transactions on Autonomous and Adaptive Systems, 2013, 8, 1-32.	0.8	19
61	Low-latency Distributed Computation Offloading for Pervasive Environments. , 2019, , .		19
62	Towards a Characterization of Egocentric Networks in Online Social Networks. Lecture Notes in Computer Science, 2011, , 524-533.	1.3	19
63	An energyâ€efficient protocol for multimedia streaming in a mobile environment. International Journal of Pervasive Computing and Communications, 2005, 1, 301-312.	1.3	18
64	Cellular traffic offloading via opportunistic networking with reinforcement learning. Computer Communications, 2015, 71, 129-141.	5.1	18
65	Self-Optimising Decentralised Service Placement in Heterogeneous Cloud Federation. , 2016, , .		18
66	Distributed Data Access in Industrial Edge Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 915-927.	14.0	18
67	Autonomic behaviour of opportunistic network routing. International Journal of Autonomous and Adaptive Communications Systems, 2008, 1, 122.	0.3	17
68	Modeling and simulation of service composition in opportunistic networks. , 2011, , .		17
69	Ego networks in Twitter: An experimental analysis. , 2013, , .		17
70	Hypothesis Transfer Learning for Efficient Data Computing in Smart Cities Environments. , 2016, , .		17
71	Architecture and performance evaluation of distributed computation offloading in edge computing. Simulation Modelling Practice and Theory, 2020, 101, 102007.	3.8	17
72	A model for the generation of social network graphs. , 2011, , .		16

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73	Data dissemination in opportunistic networks using cognitive heuristics. , 2011, , .		16
74	A Survey on Industrial Internet With ISA100 Wireless. IEEE Access, 2020, 8, 157177-157196.	4.2	16
75	The AUTOWARE Framework and Requirements for the Cognitive Digital Automation. IFIP Advances in Information and Communication Technology, 2017, , 107-117.	0.7	16
76	Crowdsourcing through Cognitive Opportunistic Networks. ACM Transactions on Autonomous and Adaptive Systems, 2015, 10, 1-29.	0.8	15
77	A software defined hierarchical communication and data management architecture for industry 4.0. , 2018, , .		15
78	An analytical model for content dissemination in opportunistic networks using cognitive heuristics. , 2012, , .		14
79	Accuracy vs. traffic trade-off of learning IoT data patterns at the edge with hypothesis transfer learning. , 2016, , .		14
80	Uncoordinated access to serverless computing in MEC systems for IoT. Computer Networks, 2020, 172, 107184.	5.1	13
81	XScribe. , 2006, , .		12
82	Autonomic detection of dynamic social communities in Opportunistic Networks. , 2011, , .		12
83	Adaptive data offloading in opportunistic networks through an actor-critic learning method. , 2014, , .		12
84	The Stability Region of the Delay in Pareto Opportunistic Networks. IEEE Transactions on Mobile Computing, 2015, 14, 180-193.	5.8	12
85	Analysis of MAC-level throughput in LTE systems with link rate adaptation and HARQ protocols. , 2015, , .		12
86	Scalable data dissemination in opportunistic networks through cognitive methods. Pervasive and Mobile Computing, 2015, 16, 115-135.	3.3	12
87	Service Provisioning in Mobile Environments through Opportunistic Computing. IEEE Transactions on Mobile Computing, 2018, 17, 2898-2911.	5.8	12
88	Making opportunistic networks in IoT environments CCN-ready: A performance evaluation of the MobCCN protocol. Computer Communications, 2018, 123, 81-96.	5.1	12
89	Performance evaluation of service execution in opportunistic computing. , 2010, , .		12
90	Social Networking for Pervasive Adaptation. , 2008, , .		11

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91	The sociable traveller. , 2009, , .		11
92	Modelling Social-Aware Forwarding in Opportunistic Networks. Lecture Notes in Computer Science, 2011, , 141-152.	1.3	11
93	Ego-net digger. , 2012, , .		11
94	Autonomic cognitive-based data dissemination in Opportunistic Networks. , 2013, , .		11
95	A distributed data management scheme for industrial IoT environments. , 2017, , .		11
96	Structure of Ego-Alter Relationships of Politicians in Twitter. Journal of Computer-Mediated Communication, 2017, 22, 231-247.	3.3	11
97	Social-aware Content Sharing in Opportunistic Networks. , 2009, , .		10
98	An arrival-based framework for human mobility modeling. , 2012, , .		10
99	Service Provisioning through Opportunistic Computing in Mobile Clouds. Procedia Computer Science, 2014, 40, 143-150.	2.0	10
100	An Architectural Framework for Serverless Edge Computing: Design and Emulation Tools. , 2018, , .		10
101	Preventing recurrent acute otitis media with Streptococcus salivarius 24SMB and Streptococcus oralis 89a five months intermittent treatment: An observational prospective cohort study. International Journal of Pediatric Otorhinolaryngology, 2020, 132, 109921.	1.0	10
102	User-Centric Mobility Models for Opportunistic Networking. Lecture Notes in Computer Science, 2008, , 255-267.	1.3	10
103	Human-centric Data Dissemination in the IoP. ACM Transactions on Autonomous and Adaptive Systems, 2019, 14, 1-25.	0.8	10
104	P2P multicast for pervasive ad hoc networks. Pervasive and Mobile Computing, 2008, 4, 62-91.	3.3	9
105	Modelling inter-contact times in social pervasive networks. , 2011, , .		9
106	Information diffusion in OSNs. , 2014, , .		9
107	Information diffusion in distributed OSN: The impact of trusted relationships. Peer-to-Peer Networking and Applications, 2016, 9, 1195-1208.	3.9	9
108	A social cognitive heuristic for adaptive data dissemination in mobile Opportunistic Networks. Pervasive and Mobile Computing, 2017, 42, 371-392.	3.3	9

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109	Social-based autonomic routing in opportunistic networks. , 2009, , 31-67.		9
110	Service Composition in Opportunistic Networks. , 2012, , .		8
111	Ego networks in Twitter: An experimental analysis. , 2013, , .		8
112	SPoT: Representing the social, spatial, and temporal dimensions of human mobility with a unifying framework. Pervasive and Mobile Computing, 2014, 11, 19-40.	3.3	8
113	Design and evaluation of a cognitive approach for disseminating semantic knowledge and content in opportunistic networks. Computer Communications, 2016, 81, 12-30.	5.1	8
114	Online Social Networks and Media. Online Social Networks and Media, 2017, 1, iii-vi.	3.6	8
115	Pervasive Communities in the Internet of People. , 2018, , .		8
116	On the impact of the physical layer model on the performance of D2D-offloading in vehicular environments. Ad Hoc Networks, 2018, 81, 197-210.	5.5	8
117	Twitter and the Press. , 2018, , .		8
118	Harnessing the Power of Ego Network Layers for Link Prediction in Online Social Networks. IEEE Transactions on Computational Social Systems, 2023, 10, 48-60.	4.4	8
119	A Power Saving Architecture for Web Access from Mobile Computers. Lecture Notes in Computer Science, 2002, , 240-251.	1.3	7
120	Report on the First MobiSys ACM workshop on mobile opportunistic networking (MobiOpp'07). Mobile Computing and Communications Review, 2008, 12, 65-66.	1.7	7
121	Cognitive network dynamics in chatlines. Procedia Computer Science, 2010, 1, 2355-2362.	2.0	7
122	From Pareto Inter-Contact Times to Residuals. IEEE Communications Letters, 2011, 15, 1256-1258.	4.1	7
123	Duty cycling in opportunistic networks. , 2014, , .		7
124	Optimal trade-off between accuracy and network cost of distributed learning in Mobile Edge Computing: An analytical approach. , 2017, , .		7
125	D2D data offloading in vehicular environments with optimal delivery time selection. Computer Communications, 2019, 146, 63-84.	5.1	7
126	Experimental analysis of a transport protocol for ad hoc networks (TPA). , 2006, , .		6

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127	Context-aware File Sharing for Opportunistic Networks. , 2007, , .		6
128	Service selection and composition in opportunistic networks. , 2013, , .		6
129	The academic wanderer: structure of collaboration network and relation with research performance. Applied Network Science, 2021, 6, .	1.5	6
130	Towards a Novel Transport Protocol for Ad Hoc Networks. Lecture Notes in Computer Science, 2003, , 805-810.	1.3	5
131	Usability of Legacy p2p Multicast in Multihop Ad Hoc Networks: An Experimental Study. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	5
132	Design and Performance Evaluation of a Transport Protocol for Ad hoc Networks. Computer Journal, 2008, 52, 186-209.	2.4	5
133	Design and evaluation of a BitTorrent proxy for energy saving. , 2009, , .		5
134	Offloading through Opportunistic Networks with Dynamic Content Requests. , 2014, , .		5
135	A Hybrid Cross-Entropy Cognitive-Based Algorithm for Resource Allocation in Cloud Environments. , 2014, , .		5
136	Offloading cellular traffic with opportunistic networks: a feasibility study. , 2015, , .		5
137	On the Performance of Data Distribution Methods for Wireless Industrial Networks. , 2019, , .		5
138	Next generation opportunistic networking in beyond 5G networks. Ad Hoc Networks, 2021, 113, 102392.	5.5	5
139	Reliable data delivery in ICN-IoT environments. Future Generation Computer Systems, 2022, 134, 271-286.	7.5	5
140	TPA: A Transport Protocol for Ad Hoc Networks. , 0, , .		4
141	A cognitive-based solution for semantic knowledge and content dissemination in opportunistic networks. , 2013, , .		4
142	MobCCN. , 2016, , .		4
143	Performance Analysis of a Device-to-Device Offloading Scheme for Vehicular Networks. , 2018, , .		4
144	Energy efficient network path reconfiguration for industrial field data. Computer Communications, 2020, 158, 1-9.	5.1	4

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145	Balanced wireless crowd charging with mobility prediction and social awareness. Computer Networks, 2022, 211, 108989.	5.1	4
146	SLICES, a scientific instrument for the networking community. Computer Communications, 2022, 193, 189-203.	5.1	4
147	Making Mobile Users' Devices Aware of the Surrounding Physical Environment: An Approach Based on Cognitive Heuristics. , 2013, , .		3
148	Distributed protocols for Ego Betweenness Centrality computation in DOSNs. , 2014, , .		3
149	Community detection in opportunistic networks using memory-based cognitive heuristics. , 2014, , .		3
150	Social Cognitive Heuristics for adaptive data dissemination in Opportunistic Networks. , 2015, , .		3
151	Here&now. , 2016, , .		3
152	A Model to Represent Human Social Relationships in Social Network Graphs. Lecture Notes in Computer Science, 2012, , 174-187.	1.3	3
153	What You Lose When You Snooze. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2017, 2, 1-29.	0.9	3
154	Distributed Path Reconfiguration and Data Forwarding in Industrial IoT Networks. Lecture Notes in Computer Science, 2018, , 29-41.	1.3	3
155	From ego network to social network models. , 2012, , .		2
156	The Structure of Ego Networks in Twitter. , 2015, , 61-73.		2
157	A Cognitive-Based Ego Network Detection System for Mobile Social Networking. , 2015, , .		2
158	A Preliminary Evaluation of QUIC for Mobile Serverless Edge Applications. , 2021, , .		2
159	The Role of Trusted Relationships on Content Spread in Distributed Online Social Networks. Lecture Notes in Computer Science, 2014, , 287-298.	1.3	2
160	On Realizing Stateful FaaS in Serverless Edge Networks: State Propagation. , 2021, , .		2
161	Dynamic hard pruning of Neural Networks at the edge of the internet. Journal of Network and Computer Applications, 2022, 200, 103330.	9.1	2
162	Power-Saving in Wi-Fi Hotspots: An Analytical Study. Lecture Notes in Computer Science, 2003, , 306-320.	1.3	1

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163	Tie Strength and Ego Network Structure in Facebook. , 2015, , 37-60.		1
164	Special Issue on Pervasive Social Computing. Pervasive and Mobile Computing, 2017, 36, 1-2.	3.3	1
165	Testing Off-the-Shelf Optical Wireless LANs for Smart City Environments. Sensors, 2021, 21, 5451.	3.8	1
166	Information Processing and Timing Mechanisms in Vision. Lecture Notes in Computer Science, 2009, , 325-334.	1.3	1
167	Structural Invariants in Individuals Language Use: The â€œEgo Networkâ€•of Words. Lecture Notes in Computer Science, 2020, , 267-282.	1.3	1
168	Context-Aware P2P Over Opportunistic Networks. , 0, , 460-480.		1
169	Stateless or Stateful FaaS? I'll Take Both!. , 2022, , .		1
170	Topics in ad hoc and sensor networks. , 2006, 44, 54-54.		0
171	Message from the workshops chairs. , 2010, , .		0
172	Message from the TPC chairs. , 2011, , .		0
173	Application of a Cognitive-Inspired Algorithm for Detecting Communities in Mobility Networks. , 2013, , .		0
174	Combined Heat and Power Plants Based on Mirror Heat Exchange Brayton Cycles. , 2014, , .		0
175	Optimising Cost vs Accuracy of Decentralised Analytics in Fog Computing Environments. IEEE Transactions on Network Science and Engineering, 2022, 9, 1986-2002.	6.4	0
176	D2D Data Offloading in Vehicular Networks with Delivery Time Selection. Lecture Notes in Computer Science, 2018, , 285-297.	1.3	0
177	Optimal Popularity-based Transmission Range Selection for D2D-supported Content Delivery. , 2020, , .		0
178	Pervasive Computing for Safe Distancing and Production Optimization in Manufacturing: Challenges and Opportunities. , 2021, , .		0
179	Toward a Detailed Evaluation of Wireless Industrial Data Distribution Approaches. Sensors, 2022, 22, 2533.	3.8	0
180	Journalistsâ€™ ego networks in Twitter: Invariant and distinctive structural features. Online Social Networks and Media, 2022, 30, 100207.	3.6	0