

# Andrea Passarella

## List of Publications by Year in descending order

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Version: 2024-02-01

180  
papers

8,110  
citations

172457

29  
h-index

79698

73  
g-index

203  
all docs

203  
docs citations

203  
times ranked

6033  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Dynamic hard pruning of Neural Networks at the edge of the internet. Journal of Network and Computer Applications, 2022, 200, 103330.	9.1	2
4	Toward a Detailed Evaluation of Wireless Industrial Data Distribution Approaches. Sensors, 2022, 22, 2533.	3.8	0
5	Reliable data delivery in ICN-IoT environments. Future Generation Computer Systems, 2022, 134, 271-286.	7.5	5
6	Balanced wireless crowd charging with mobility prediction and social awareness. Computer Networks, 2022, 211, 108989.	5.1	4
7	Journalists's ego networks in Twitter: Invariant and distinctive structural features. Online Social Networks and Media, 2022, 30, 100207.	3.6	0
8	Stateless or Stateful FaaS? I'll Take Both!. , 2022, , .		1
9	SLICES, a scientific instrument for the networking community. Computer Communications, 2022, 193, 189-203.	5.1	4
10	Human migration: the big data perspective. International Journal of Data Science and Analytics, 2021, 11, 341-360.	4.1	47
11	Next generation opportunistic networking in beyond 5G networks. Ad Hoc Networks, 2021, 113, 102392.	5.5	5
12	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
13	Request Scheduling in Quantum Networks. IEEE Transactions on Quantum Engineering, 2021, 2, 2-17.	4.9	26
14	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
15	The academic wanderer: structure of collaboration network and relation with research performance. Applied Network Science, 2021, 6, .	1.5	6
16	A Preliminary Evaluation of QUIC for Mobile Serverless Edge Applications. , 2021, , .		2
17	Testing Off-the-Shelf Optical Wireless LANs for Smart City Environments. Sensors, 2021, 21, 5451.	3.8	1
18	On Realizing Stateful FaaS in Serverless Edge Networks: State Propagation. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Pervasive Computing for Safe Distancing and Production Optimization in Manufacturing: Challenges and Opportunities. , 2021, , .		0
20	Architecture and performance evaluation of distributed computation offloading in edge computing. Simulation Modelling Practice and Theory, 2020, 101, 102007.	3.8	17
21	A Survey on Industrial Internet With ISA100 Wireless. IEEE Access, 2020, 8, 157177-157196.	4.2	16
22	Energy efficient network path reconfiguration for industrial field data. Computer Communications, 2020, 158, 1-9.	5.1	4
23	Distributed Data Access in Industrial Edge Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 915-927.	14.0	18
24	Toward Distributed Computing Environments with Serverless Solutions in Edge Systems. IEEE Communications Magazine, 2020, 58, 40-46.	6.1	35
25	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
26	Uncoordinated access to serverless computing in MEC systems for IoT. Computer Networks, 2020, 172, 107184.	5.1	13
27	Structural Invariants in Individuals Language Use: The "Ego Network" of Words. Lecture Notes in Computer Science, 2020, , 267-282.	1.3	1
28	Optimal Popularity-based Transmission Range Selection for D2D-supported Content Delivery. , 2020, , .		0
29	D2D data offloading in vehicular environments with optimal delivery time selection. Computer Communications, 2019, 146, 63-84.	5.1	7
30	On the Performance of Data Distribution Methods for Wireless Industrial Networks. , 2019, , .		5
31	Data Management in Industry 4.0: State of the Art and Open Challenges. IEEE Access, 2019, 7, 97052-97093.	4.2	99
32	Low-latency Distributed Computation Offloading for Pervasive Environments. , 2019, , .		19
33	Human-centric Data Dissemination in the IoP. ACM Transactions on Autonomous and Adaptive Systems, 2019, 14, 1-25.	0.8	10
34	Service Provisioning in Mobile Environments through Opportunistic Computing. IEEE Transactions on Mobile Computing, 2018, 17, 2898-2911.	5.8	12
35	Making opportunistic networks in IoT environments CCN-ready: A performance evaluation of the MobCCN protocol. Computer Communications, 2018, 123, 81-96.	5.1	12
36	A software defined hierarchical communication and data management architecture for industry 4.0. , 2018, , .		15

#	ARTICLE	IF	CITATIONS
37	Pervasive Communities in the Internet of People. , 2018, , .		8
38	Emerging Trends in Hybrid Wireless Communication and Data Management for the Industry 4.0. Electronics (Switzerland), 2018, 7, 400.	3.1	32
39	An Architectural Framework for Serverless Edge Computing: Design and Emulation Tools. , 2018, , .		10
40	Energy efficient distributed analytics at the edge of the network for IoT environments. Pervasive and Mobile Computing, 2018, 51, 27-42.	3.3	26
41	Performance Analysis of Latency-Aware Data Management in Industrial IoT Networks. Sensors, 2018, 18, 2611.	3.8	27
42	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
43	Performance Analysis of a Device-to-Device Offloading Scheme for Vehicular Networks. , 2018, , .		4
44	Twitter and the Press. , 2018, , .		8
45	Maximizing industrial IoT network lifetime under latency constraints through edge data distribution. , 2018, , .		21
46	Managing social contents in Decentralized Online Social Networks: A survey. Online Social Networks and Media, 2018, 7, 12-29.	3.6	52
47	The Internet of People: A human and data-centric paradigm for the Next Generation Internet. Computer Communications, 2018, 131, 51-65.	5.1	34
48	D2D Data Offloading in Vehicular Networks with Delivery Time Selection. Lecture Notes in Computer Science, 2018, , 285-297.	1.3	0
49	Distributed Path Reconfiguration and Data Forwarding in Industrial IoT Networks. Lecture Notes in Computer Science, 2018, , 29-41.	1.3	3
50	Special Issue on Pervasive Social Computing. Pervasive and Mobile Computing, 2017, 36, 1-2.	3.3	1
51	A communication efficient distributed learning framework for smart environments. Pervasive and Mobile Computing, 2017, 41, 46-68.	3.3	28
52	Optimal trade-off between accuracy and network cost of distributed learning in Mobile Edge Computing: An analytical approach. , 2017, , .		7
53	The Internet of People (IoP): A new wave in pervasive mobile computing. Pervasive and Mobile Computing, 2017, 41, 1-27.	3.3	115
54	Online Social Networks and Media. Online Social Networks and Media, 2017, 1, iii-vi.	3.6	8

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55	Online Social Networks and information diffusion: The role of ego networks. <i>Online Social Networks and Media</i> , 2017, 1, 44-55.	3.6	73
56	A distributed data management scheme for industrial IoT environments. , 2017, , .		11
57	Structure of Ego-Alter Relationships of Politicians in Twitter. <i>Journal of Computer-Mediated Communication</i> , 2017, 22, 231-247.	3.3	11
58	A social cognitive heuristic for adaptive data dissemination in mobile Opportunistic Networks. <i>Pervasive and Mobile Computing</i> , 2017, 42, 371-392.	3.3	9
59	The AUTOWARE Framework and Requirements for the Cognitive Digital Automation. <i>IFIP Advances in Information and Communication Technology</i> , 2017, , 107-117.	0.7	16
60	What You Lose When You Snooze. <i>ACM Transactions on Modeling and Performance Evaluation of Computing Systems</i> , 2017, 2, 1-29.	0.9	3
61	Hypothesis Transfer Learning for Efficient Data Computing in Smart Cities Environments. , 2016, , .		17
62	Self-Optimising Decentralised Service Placement in Heterogeneous Cloud Federation. , 2016, , .		18
63	Here&now. , 2016, , .		3
64	MobCCN. , 2016, , .		4
65	Accuracy vs. traffic trade-off of learning IoT data patterns at the edge with hypothesis transfer learning. , 2016, , .		14
66	Mobile edge clouds for Information-Centric IoT services. , 2016, , .		28
67	Design and evaluation of a cognitive approach for disseminating semantic knowledge and content in opportunistic networks. <i>Computer Communications</i> , 2016, 81, 12-30.	5.1	8
68	Ego network structure in online social networks and its impact on information diffusion. <i>Computer Communications</i> , 2016, 76, 26-41.	5.1	56
69	Analysis of Co-authorship Ego Networks. <i>Lecture Notes in Computer Science</i> , 2016, , 82-96.	1.3	21
70	Information diffusion in distributed OSN: The impact of trusted relationships. <i>Peer-to-Peer Networking and Applications</i> , 2016, 9, 1195-1208.	3.9	9
71	Tie Strength and Ego Network Structure in Facebook. , 2015, , 37-60.		1
72	The Structure of Ego Networks in Twitter. , 2015, , 61-73.		2

#	ARTICLE	IF	CITATIONS
73	The structure of online social networks mirrors those in the offline world. <i>Social Networks</i> , 2015, 43, 39-47.	2.1	271
74	Crowdsourcing through Cognitive Opportunistic Networks. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2015, 10, 1-29.	0.8	15
75	A Cognitive-Based Ego Network Detection System for Mobile Social Networking. , 2015, , .		2
76	Social Cognitive Heuristics for adaptive data dissemination in Opportunistic Networks. , 2015, , .		3
77	Offloading cellular traffic with opportunistic networks: a feasibility study. , 2015, , .		5
78	A joint multicast/D2D learning-based approach to LTE traffic offloading. <i>Computer Communications</i> , 2015, 72, 26-37.	5.1	20
79	Cellular traffic offloading via opportunistic networking with reinforcement learning. <i>Computer Communications</i> , 2015, 71, 129-141.	5.1	18
80	The Stability Region of the Delay in Pareto Opportunistic Networks. <i>IEEE Transactions on Mobile Computing</i> , 2015, 14, 180-193.	5.8	12
81	Service Composition in Opportunistic Networks: A Load and Mobility Aware Solution. <i>IEEE Transactions on Computers</i> , 2015, 64, 2308-2322.	3.4	31
82	Analysis of MAC-level throughput in LTE systems with link rate adaptation and HARQ protocols. , 2015, , .		12
83	Data Offloading Techniques in Cellular Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2015, 17, 580-603.	39.4	291
84	Scalable data dissemination in opportunistic networks through cognitive methods. <i>Pervasive and Mobile Computing</i> , 2015, 16, 115-135.	3.3	12
85	Information diffusion in OSNs. , 2014, , .		9
86	Combined Heat and Power Plants Based on Mirror Heat Exchange Brayton Cycles. , 2014, , .		0
87	Robust Adaptive Modulation and Coding (AMC) Selection in LTE Systems Using Reinforcement Learning. , 2014, , .		22
88	Duty cycling in opportunistic networks. , 2014, , .		7
89	Distributed protocols for Ego Betweenness Centrality computation in DOSNs. , 2014, , .		3
90	Service Provisioning through Opportunistic Computing in Mobile Clouds. <i>Procedia Computer Science</i> , 2014, 40, 143-150.	2.0	10

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91	Offloading through Opportunistic Networks with Dynamic Content Requests. , 2014, , .		5
92	A Hybrid Cross-Entropy Cognitive-Based Algorithm for Resource Allocation in Cloud Environments. , 2014, , .		5
93	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
94	Performance modelling of opportunistic forwarding under heterogenous mobility. Computer Communications, 2014, 48, 56-70.	5.1	35
95	Community detection in opportunistic networks using memory-based cognitive heuristics. , 2014, , .		3
96	Adaptive data offloading in opportunistic networks through an actor-critic learning method. , 2014, , .		12
97	The Role of Trusted Relationships on Content Spread in Distributed Online Social Networks. Lecture Notes in Computer Science, 2014, , 287-298.	1.3	2
98	Ego networks in Twitter: An experimental analysis. , 2013, , .		17
99	Analysis of Individual Pair and Aggregate Intercontact Times in Heterogeneous Opportunistic Networks. IEEE Transactions on Mobile Computing, 2013, 12, 2483-2495.	5.8	67
100	Making Mobile Users' Devices Aware of the Surrounding Physical Environment: An Approach Based on Cognitive Heuristics. , 2013, , .		3
101	Autonomic cognitive-based data dissemination in Opportunistic Networks. , 2013, , .		11
102	Ego networks in Twitter: An experimental analysis. , 2013, , .		8
103	Application of a Cognitive-Inspired Algorithm for Detecting Communities in Mobility Networks. , 2013, , .		0
104	Egocentric online social networks: Analysis of key features and prediction of tie strength in Facebook. Computer Communications, 2013, 36, 1130-1144.	5.1	110
105	Dynamics of personal social relationships in online social networks. , 2013, , .		40
106	A cognitive-based solution for semantic knowledge and content dissemination in opportunistic networks. , 2013, , .		4
107	Service selection and composition in opportunistic networks. , 2013, , .		6
108	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

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109	From ego network to social network models. , 2012, , .		2
110	SCAMPI. , 2012, , .		21
111	SCAMPI. Computer Communication Review, 2012, 42, 503-508.	1.8	26
112	Ego-net digger. , 2012, , .		11
113	An analytical model for content dissemination in opportunistic networks using cognitive heuristics. , 2012, , .		14
114	Service Composition in Opportunistic Networks. , 2012, , .		8
115	An arrival-based framework for human mobility modeling. , 2012, , .		10
116	Ego network models for Future Internet social networking environments. Computer Communications, 2012, 35, 2201-2217.	5.1	29
117	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
118	Analysis of Ego Network Structure in Online Social Networks. , 2012, , .		75
119	A survey on content-centric technologies for the current Internet: CDN and P2P solutions. Computer Communications, 2012, 35, 1-32.	5.1	185
120	A Model to Represent Human Social Relationships in Social Network Graphs. Lecture Notes in Computer Science, 2012, , 174-187.	1.3	3
121	Autonomic detection of dynamic social communities in Opportunistic Networks. , 2011, , .		12
122	A model for the generation of social network graphs. , 2011, , .		16
123	Modelling Social-Aware Forwarding in Opportunistic Networks. Lecture Notes in Computer Science, 2011, , 141-152.	1.3	11
124	Data dissemination in opportunistic networks using cognitive heuristics. , 2011, , .		16
125	From Pareto Inter-Contact Times to Residuals. IEEE Communications Letters, 2011, 15, 1256-1258.	4.1	7
126	Message from the TPC chairs. , 2011, , .		0



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127	Human mobility models for opportunistic networks. , 2011, 49, 157-165.		175
128	Modelling inter-contact times in social pervasive networks. , 2011, , .		9
129	Minimum-Delay Service Provisioning in Opportunistic Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1267-1275.	5.6	41
130	Modeling and simulation of service composition in opportunistic networks. , 2011, , .		17
131	Characterising Aggregate Inter-contact Times in Heterogeneous Opportunistic Networks. Lecture Notes in Computer Science, 2011, , 301-313.	1.3	29
132	Towards a Characterization of Egocentric Networks in Online Social Networks. Lecture Notes in Computer Science, 2011, , 524-533.	1.3	19
133	Message from the workshops chairs. , 2010, , .		0
134	HCMM: Modelling spatial and temporal properties of human mobility driven by usersâ€™ social relationships. Computer Communications, 2010, 33, 1056-1074.	5.1	200
135	Cognitive network dynamics in chatlines. Procedia Computer Science, 2010, 1, 2355-2362.	2.0	7
136	Context- and social-aware middleware for opportunistic networks. Journal of Network and Computer Applications, 2010, 33, 525-541.	9.1	76
137	A BitTorrent proxy for Green Internet file sharing: Design and experimental evaluation. Computer Communications, 2010, 33, 794-802.	5.1	42
138	Design and performance evaluation of ContentPlace, a social-aware data dissemination system for opportunistic networks. Computer Networks, 2010, 54, 589-604.	5.1	98
139	From opportunistic networks to opportunistic computing. , 2010, 48, 126-139.		221
140	Efficient social-aware content placement in opportunistic networks. , 2010, , .		23
141	Performance evaluation of service execution in opportunistic computing. , 2010, , .		12
142	Social-aware Content Sharing in Opportunistic Networks. , 2009, , .		10
143	Energy conservation in wireless sensor networks: A survey. Ad Hoc Networks, 2009, 7, 537-568.	5.5	2,114
144	Routing Issues in Opportunistic Networks. , 2009, , 121-147.		21

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145	Design and evaluation of a BitTorrent proxy for energy saving. , 2009, , .		5
146	The sociable traveller. , 2009, , .		11
147	Social-based autonomic routing in opportunistic networks. , 2009, , 31-67.		9
148	Information Processing and Timing Mechanisms in Vision. Lecture Notes in Computer Science, 2009, , 325-334.	1.3	1
149	Exploiting usersâ€™ social relations to forward data in opportunistic networks: The HiBOp solution. Pervasive and Mobile Computing, 2008, 4, 633-657.	3.3	153
150	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
151	P2P multicast for pervasive ad hoc networks. Pervasive and Mobile Computing, 2008, 4, 62-91.	3.3	9
152	Context and resource awareness in opportunistic network data dissemination. , 2008, , .		29
153	ContentPlace. , 2008, , .		123
154	Social Networking for Pervasive Adaptation. , 2008, , .		11
155	Design and Performance Evaluation of a Transport Protocol for Ad hoc Networks. Computer Journal, 2008, 52, 186-209.	2.4	5
156	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
157	Autonomic behaviour of opportunistic network routing. International Journal of Autonomous and Adaptive Communications Systems, 2008, 1, 122.	0.3	17
158	User-Centric Mobility Models for Opportunistic Networking. Lecture Notes in Computer Science, 2008, , 255-267.	1.3	10
159	Modelling data dissemination in opportunistic networks. , 2008, , .		56
160	Context-aware File Sharing for Opportunistic Networks. , 2007, , .		6
161	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
162	An Adaptive Data-transfer Protocol for Sensor Networks with Data Mules. , 2007, , .		51

#	ARTICLE	IF	CITATIONS
163	HiBOP: a History Based Routing Protocol for Opportunistic Networks. , 2007, , .		189
164	Impact of Social Mobility on Routing Protocols for Opportunistic Networks. , 2007, , .		35
165	Topics in ad hoc and sensor networks. , 2006, 44, 54-54.		0
166	Opportunistic networking: data forwarding in disconnected mobile ad hoc networks. , 2006, 44, 134-141.		938
167	XScribe. , 2006, , .		12
168	Experimental analysis of a transport protocol for ad hoc networks (TPA). , 2006, , .		6
169	An adaptive and low-latency power management protocol for wireless sensor networks. , 2006, , .		20
170	An energy-efficient protocol for multimedia streaming in a mobile environment. International Journal of Pervasive Computing and Communications, 2005, 1, 301-312.	1.3	18
171	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
172	A performance study of power-saving polices for Wi-Fi hotspots. Computer Networks, 2004, 45, 295-318.	5.1	25
173	Performance comparison of power-saving strategies for mobile Web access. Performance Evaluation, 2003, 53, 273-294.	1.2	20
174	Power-Saving in Wi-Fi Hotspots: An Analytical Study. Lecture Notes in Computer Science, 2003, , 306-320.	1.3	1
175	Towards a Novel Transport Protocol for Ad Hoc Networks. Lecture Notes in Computer Science, 2003, , 805-810.	1.3	5
176	A Power Saving Architecture for Web Access from Mobile Computers. Lecture Notes in Computer Science, 2002, , 240-251.	1.3	7
177	A power-aware multimedia streaming protocol for mobile users. , 0, , .		20
178	TPA: A Transport Protocol for Ad Hoc Networks. , 0, , .		4
179	Using buddies to live longer in a boring world. , 0, , .		23
180	Context-Aware P2P Over Opportunistic Networks. , 0, , 460-480.		1