Cecilia Mascolo

List of Publications by Year
in descending order

154 papers	8,683 citations	147801 31 h-index
161 all docs	161 docs citations	161 times ranked

123424 61 g-index
6879 citing authors

#	ARTICLE	IF	CITATIONS
1	Sounds of COVID-19: exploring realistic performance of audio-based digital testing. Npj Digital Medicine, 2022, 5, 16.	10.9	48
2	Breaking away from labels: The promise of self-supervised machine learning in intelligent health. Patterns, 2022, 3, 100410.	5.9	14
3	Machine learning detects altered spatial navigation features in outdoor behaviour of Alzheimer's disease patients. Scientific Reports, 2022, 12, 3160.	3.3	10
4	Detecting sleep outside the clinic using wearable heart rate devices. Scientific Reports, 2022, 12, 7956.	3.3	11
5	Exploring Longitudinal Cough, Breath, and Voice Data for COVID-19 Progression Prediction via Sequential Deep Learning: Model Development and Validation. Journal of Medical Internet Research, 2022, 24, e37004.	4.3	16
6	SelfHAR. , 2021, 5, 1-30.		47
7	Randomised controlled trial of a just-in-time adaptive intervention (JITAI) smoking cessation smartphone app: the Quit Sense feasibility trial protocol. BMJ Open, 2021, 11, e048204.	1.9	6
8	The feasibility of theÂPAM intervention to support treatment-adherence in people with hypertension in primary care: a randomised clinical controlled trial. Scientific Reports, 2021, 11, 8897.	3.3	1
9	Anticipatory Detection of Compulsive Body-focused Repetitive Behaviors with Wearables. , 2021, , .		1
10	Deep Learning for Mobile Mental Health: Challenges and recent advances. IEEE Signal Processing Magazine, 2021, 38, 96-105.	5.6	16
11	Assessing the acceptability of a text messaging service and smartphone app to support patient adherence to medications prescribed for high blood pressure: a pilot study. Pilot and Feasibility Studies, 2020, 6, 134.	1.2	7
12	Exploring Automatic Diagnosis of COVID-19 from Crowdsourced Respiratory Sound Data. , 2020, , .		231
13	Passive mobile sensing and psychological traits for large scale mood prediction. , 2019, , .		27
14	Special issue on recommender system. CCF Transactions on Pervasive Computing and Interaction, 2019, 1, 237-239.	2.6	1
15	Measuring Interaction Proxemics with Wearable Light Tags. , 2018, 2, 1-30.		11
16	The Impact of Geographic Distance on Online Social Interactions. Information Systems Frontiers, 2018, 20, 1203-1218.	6.4	36
17	Developing and Deploying a Taxi Price Comparison Mobile App in the Wild: Insights and Challenges. , 2018, , .		6
18	The Role of Urban Mobility in Retail Business Survival. , 2018, 2, 1-22.		12

#	Article	IF	Citations
19	The Specter of Malicious Computing: Securing the Internet of Things. IEEE Pervasive Computing, 2018, 17, 10-11.	1.3	0
20	Predicting the temporal activity patterns of new venues. EPJ Data Science, 2018, 7, 13.	2.8	18
21	Discovering Latent Patterns of Urban Cultural Interactions in WeChat for Modern City Planning. , 2018, , .		17
22	Learning from Our Mistakes: Identifying Opportunities for Technology Intervention against Everyday Cognitive Failure. IEEE Pervasive Computing, 2018, 17, 22-33.	1.3	4
23	Putting mood in context: Using smartphones to examine how people feel in different locations. Journal of Research in Personality, 2017, 69, 96-101.	1.7	51
24	Mobile Sensing at the Service of Mental Well-being. , 2017, , .		99
25	A Study of Bluetooth Low Energy performance for human proximity detection in the workplace. , 2017, , .		69
26	Guest Editorial: Urban Computing. IEEE Transactions on Big Data, 2017, 3, 124-125.	6.1	10
27	Accelerating Mobile Audio Sensing Algorithms through On-Chip GPU Offloading. , 2017, , .		15
28	Low-resource Multi-task Audio Sensing for Mobile and Embedded Devices via Shared Deep Neural Network Representations. , 2017, 1, 1-19.		38
29	An active‐radio‐frequency‐identification system capable of identifying co‐locations and social‐structure: Validation with a wild free‐ranging animal. Methods in Ecology and Evolution, 2017, 8, 1822-1831.	5.2	22
30	Cultural investment and urban socio-economic development: a geosocial network approach. Royal Society Open Science, 2017, 4, 170413.	2.4	10
31	Detecting Emerging Activity-Based Working Traits through Wearable Technology. , 2017, 1, 1-24.		9
32	If I build it, will they come?. , 2017, , .		9
33	Happier People Live More Active Lives: Using Smartphones to Link Happiness and Physical Activity. PLoS ONE, 2017, 12, e0160589.	2.5	116
34	Tracking urban activity growth globally with big location data. Royal Society Open Science, 2016, 3, 150688.	2.4	23
35	Bridge structural monitoring through a vibration energy harvesting wireless sensor network. , 2016, , .		0
36	Measuring Urban Social Diversity Using Interconnected Geo-Social Networks. , 2016, , .		72

#	Article	IF	Citations
37	A multilayer approach to multiplexity and link prediction in online geo-social networks. EPJ Data Science, 2016, 5, 24.	2.8	78
38	LEO. , 2016, , .		40
39	Smart Sensing Systems for the Daily Drive. IEEE Pervasive Computing, 2016, 15, 39-43.	1.3	15
40	Mobile-Based Experience Sampling for Behaviour Research. Human-computer Interaction Series, 2016, , 141-161.	0.6	18
41	The International Postal Network and Other Global Flows as Proxies for National Wellbeing. PLoS ONE, 2016, 11, e0155976.	2.5	8
42	A Context-Sensing Mobile Phone App (Q Sense) for Smoking Cessation: A Mixed-Methods Study. JMIR MHealth and UHealth, 2016, 4, e106.	3.7	143
43	Mining open datasets for transparency in taxi transport in metropolitan environments. EPJ Data Science, 2015, 4, 23.	2.8	14
44	Topological Properties and Temporal Dynamics of Place Networks in Urban Environments. , 2015, , .		35
45	Comparing cities' cycling patterns using online shared bicycle maps. Transportation, 2015, 42, 541-559.	4.0	46
46	ZOE. , 2015, , .		15
47	Beyond location check-ins: Exploring physical and soft sensing to augment social check-in apps. , 2015, , .		6
48	The Evolution of Your Success Lies at the Centre of Your Co-Authorship Network. PLoS ONE, 2015, 10, e0114302.	2.5	16
49	What is this place? Inferring place categories through user patterns identification in geo-tagged tweets. , 2014, , .		29
50	The architecture of innovation. , 2014, , .		38
51	Mining users' significant driving routes with low-power sensors. , 2014, , .		50
52	DSP.Ear. , 2014, , .		39
53	Smartphone sensing offloading for efficiently supporting social sensing applications. Pervasive and Mobile Computing, 2014, 10, 3-21.	3.3	18
54	Web and Social Graph Mining [Guest editors' introduction]. IEEE Internet Computing, 2014, 18, 9-10.	3.3	1

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55	Pervasive Analytics and Citizen Science [Guest editors' introduction]. IEEE Pervasive Computing, 2014, 13, 18-19.	1.3	1
56	Group Colocation Behavior in Technological Social Networks. PLoS ONE, 2014, 9, e105816.	2.5	11
57	Geo-spotting. , 2013, , .		174
58	Evaluating Temporal Robustness of Mobile Networks. IEEE Transactions on Mobile Computing, 2013, 12, 105-117.	5.8	50
59	Smartphones for Large-Scale Behavior Change Interventions. IEEE Pervasive Computing, 2013, 12, 66-73.	1.3	169
60	A Place-Focused Model for Social Networks in Cities. , 2013, , .		22
61	METIS: Exploring mobile phone sensing offloading for efficiently supporting social sensing applications. , 2013, , .		32
62	Social and place-focused communities in location-based online social networks. European Physical Journal B, 2013, 86, 1.	1.5	20
63	Exploiting Foursquare and Cellular Data to Infer User Activity in Urban Environments. , 2013, , .		78
64	Contextual dissonance. , 2013, , .		53
65	Open source smartphone libraries for computational social science. , 2013, , .		31
66	ParkSense. , 2013, , .		108
67	Hoodsquare: Modeling and Recommending Neighborhoods in Location-Based Social Networks. , 2013, , .		47
68	Graph Metrics for Temporal Networks. Understanding Complex Systems, 2013, , 15-40.	0.6	159
69	Applications of Temporal Graph Metrics to Real-World Networks. Understanding Complex Systems, 2013, , 135-159.	0.6	23
70	Evolution of a location-based online social network. , 2012, , .		58
71	Social sensing in the field. , 2012, , .		3
72	WILDSENSING. ACM Transactions on Sensor Networks, 2012, 8, 1-33.	3.6	63

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73	Collecting big datasets of human activity one checkin at a time. , 2012, , .		5
74	Far from the eyes, close on the web. , 2012, , .		24
75	The importance of being placefriends. , 2012, , .		24
76	Los Twindignados: The Rise of the Indignados Movement on Twitter. , 2012, , .		11
77	Talking Places: Modelling and Analysing Linguistic Content in Foursquare. , 2012, , .		25
78	STOP: Socio-Temporal Opportunistic Patching of short range mobile malware. , 2012, , .		7
79	Mining User Mobility Features for Next Place Prediction in Location-Based Services. , 2012, , .		230
80	Components in time-varying graphs. Chaos, 2012, 22, 023101.	2.5	94
81	A Random Walk around the City: New Venue Recommendation in Location-Based Social Networks. , 2012, , .		116
82	A Tale of Many Cities: Universal Patterns in Human Urban Mobility. PLoS ONE, 2012, 7, e37027.	2.5	395
83	Centrality prediction in dynamic human contact networks. Computer Networks, 2012, 56, 983-996.	5.1	68
84	SenShare: Transforming Sensor Networks into Multi-application Sensing Infrastructures. Lecture Notes in Computer Science, 2012, , 65-81.	1.3	66
85	Sense and Sensibility in a Pervasive World. Lecture Notes in Computer Science, 2012, , 406-424.	1.3	22
86	Topic 14: Mobile and Ubiquitous Computing. Lecture Notes in Computer Science, 2012, , 753-753.	1.3	0
87	SpotME If You Can: Randomized Responses for Location Obfuscation on Mobile Phones. , 2011, , .		50
88	Understanding robustness of mobile networks through temporal network measures. , 2011, , .		13
89	Exploiting temporal complex network metrics in mobile malware containment. , 2011, , .		25
90	SociableSense. , 2011, , .		148

#	Article	IF	Citations
91	Track globally, deliver locally. , 2011, , .		105
92	Welcome from the technical program chairs. , 2011, , .		0
93	On the Effectiveness of an Opportunistic Traffic Management System for Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1537-1548.	8.0	143
94	Diversity decay in opportunistic content sharing systems. , 2011, , .		0
95	Exploiting place features in link prediction on location-based social networks. , 2011, , .		345
96	Measuring user activity on an online location-based social network. , 2011, , .		23
97	Smart phone based systems for social psychological research. , 2011, , .		5
98	NextPlace: A Spatio-temporal Prediction Framework for Pervasive Systems. Lecture Notes in Computer Science, 2011, , 152-169.	1.3	161
99	Characterising temporal distance and reachability in mobile and online social networks. Computer Communication Review, 2010, 40, 118-124.	1.8	101
100	EmotionSense. , 2010, , .		357
101	Evolution and sustainability of a wildlife monitoring sensor network. , 2010, , .		109
102	A shared sensor network infrastructure. , 2010, , .		21
103	Extending Access Point Connectivity through Opportunistic Routing in Vehicular Networks. , 2010, , .		52
104	On Nonstationarity of Human Contact Networks. , 2010, , .		11
105	Analysing information flows and key mediators through temporal centrality metrics. , 2010, , .		114
106	Selective Reprogramming of Mobile Sensor Networks through Social Community Detection. Lecture Notes in Computer Science, 2010, , 178-193.	1.3	22
107	Mobility Models for Systems Evaluation. , 2009, , 43-62.		73
108	A hybrid approach for content-based publish/subscribe in vehicular networks. Pervasive and Mobile Computing, 2009, 5, 697-713.	3.3	57

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109	Persistent content-based information dissemination in hybrid vehicular networks. , 2009, , .		45
110	Temporal distance metrics for social network analysis. , 2009, , .		128
111	Wildlife and environmental monitoring using RFID and WSN technology. , 2009, , .		16
112	CAR: Context-Aware Adaptive Routing for Delay-Tolerant Mobile Networks. IEEE Transactions on Mobile Computing, 2009, 8, 246-260.	5.8	224
113	Socially-aware routing for publish-subscribe in delay-tolerant mobile ad hoc networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 748-760.	14.0	383
114	Writing on the clean slate: Implementing a socially-aware protocol in Haggle. , 2008, , .		21
115	Seal-2-Seal: A delay-tolerant protocol for contact logging in wildlife monitoring sensor networks. , 2008, , .		25
116	Media sharing based on colocation prediction in urban transport. , 2008, , .		122
117	Selective code dissemination in mobile wireless sensor networks. , 2008, , .		0
118	Efficient Node Discovery in Mobile Wireless Sensor Networks. , 2008, , 478-485.		38
119	A framework for multi-region delay tolerant networking. , 2008, , .		7
120	Performance analysis and prediction of physically mobile systems. , 2007, , .		9
121	CTG. , 2007, , .		19
122	Designing mobility models based on social network theory. Mobile Computing and Communications Review, 2007, 11, 59-70.	1.7	228
123	Opportunistic spatio-temporal dissemination system for vehicular networks. , 2007, , .		76
124	Opportunistic Mobile Sensor Data Collection with SCAR. , 2007, , .		51
125	Integrating security and usability into the requirements and design process. International Journal of Electronic Security and Digital Forensics, 2007, 1, 12.	0.2	66
126	Content Source Selection in Bluetooth Networks. , 2007, , .		9

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127	Predictive Resource Scheduling in Computational Grids. , 2007, , .		18
128	GeOpps: Geographical Opportunistic Routing for Vehicular Networks. , 2007, , .		262
129	Reconfigurable Component-based Middleware for Networked Embedded Systems. International Journal of Wireless Information Networks, 2007, 14, 149-162.	2.7	67
130	A node discovery service for partially mobile sensor networks. , 2007, , .		11
131	Building Adaptable Mobile Middleware Services Using Logical Mobility Techniques. Studies in Computational Intelligence, 2007, , 3-26.	0.9	1
132	A community based mobility model for ad hoc network research. , 2006, , .		232
133	SCAR. , 2006, , .		38
134	Dynamic Reconfiguration in the RUNES Middleware. , 2006, , .		5
135	The SATIN Component System-A Metamodel for Engineering Adaptable Mobile Systems. IEEE Transactions on Software Engineering, 2006, 32, 910-927.	5.6	34
136	EMMA: Epidemic Messaging Middleware for Ad hoc networks. Personal and Ubiquitous Computing, 2006, 10, 28-36.	2.8	40
137	Data collection in delay tolerant mobile sensor networks using SCAR. , 2006, , .		6
138	Principles of Mobile Computing Middleware. , 2005, , 261-280.		8
139	Adaptive resource discovery for ubiquitous computing. , 2004, , .		24
140	Adapting asynchronous messaging middleware to ad hoc networking. , 2004, , .		17
141	CODEWEAVE: Exploring Fine-Grained Mobility of Code. Automated Software Engineering, 2004, 11, 207-243.	2.9	7
142	An ad hoc mobility model founded on social network theory. , 2004, , .		109
143	satin: A Component Model for Mobile Self Organisation. Lecture Notes in Computer Science, 2004, , 1303-1321.	1.3	21
144	Guest Editorial: XML and Software Engineering. Automated Software Engineering, 2003, 10, 5-6.	2.9	0

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145	Adaptable Mobile Applications: Exploiting Logical Mobility in Mobile Computing. Lecture Notes in Computer Science, 2003, , 170-179.	1.3	9
146	A micro-economic approach to conflict resolution in mobile computing. , 2002, , .		15
147	Exploiting reflection in mobile computing middleware. Mobile Computing and Communications Review, 2002, 6, 34-44.	1.7	64
148	Mobile Computing Middleware. Lecture Notes in Computer Science, 2002, , 20-58.	1.3	96
149	XMILE: An XML Based Approach for Incremental Code Mobility and Update. Automated Software Engineering, 2002, 9, 151-165.	2.9	10
150	XMIDDLE: A Data-Sharing Middleware for Mobile Computing. Wireless Personal Communications, 2002, 21, 77-103.	2.7	136
151	Reflective Middleware Solutions for Context-Aware Applications. Lecture Notes in Computer Science, 2001, , 126-133.	1.3	63
152	First ICSE 2001 workshop on XML technologies and software engineering. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2001, 26, 59-61.	0.7	0
153	Implementing incremental code migration with XML. , 2000, , .		16
154	Analyzing and refining an architectural style. Lecture Notes in Computer Science, 1997, , 347-368.	1.3	1