

Cecilia Mascolo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2209901/publications.pdf>

Version: 2024-02-01

154
papers

8,683
citations

147801

31
h-index

123424

61
g-index

161
all docs

161
docs citations

161
times ranked

6879
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tale of Many Cities: Universal Patterns in Human Urban Mobility. PLoS ONE, 2012, 7, e37027.	2.5	395
2	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
3	EmotionSense. , 2010, , .		357
4	Exploiting place features in link prediction on location-based social networks. , 2011, , .		345
5	GeOpps: Geographical Opportunistic Routing for Vehicular Networks. , 2007, , .		262
6	A community based mobility model for ad hoc network research. , 2006, , .		232
7	Exploring Automatic Diagnosis of COVID-19 from Crowdsourced Respiratory Sound Data. , 2020, , .		231
8	Mining User Mobility Features for Next Place Prediction in Location-Based Services. , 2012, , .		230
9	Designing mobility models based on social network theory. Mobile Computing and Communications Review, 2007, 11, 59-70.	1.7	228
10	CAR: Context-Aware Adaptive Routing for Delay-Tolerant Mobile Networks. IEEE Transactions on Mobile Computing, 2009, 8, 246-260.	5.8	224
11	Geo-spotting. , 2013, , .		174
12	Smartphones for Large-Scale Behavior Change Interventions. IEEE Pervasive Computing, 2013, 12, 66-73.	1.3	169
13	NextPlace: A Spatio-temporal Prediction Framework for Pervasive Systems. Lecture Notes in Computer Science, 2011, , 152-169.	1.3	161
14	Graph Metrics for Temporal Networks. Understanding Complex Systems, 2013, , 15-40.	0.6	159
15	SociableSense. , 2011, , .		148
16	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
17	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
18	XMIDDLE: A Data-Sharing Middleware for Mobile Computing. Wireless Personal Communications, 2002, 21, 77-103.	2.7	136

#	ARTICLE	IF	CITATIONS
19	Temporal distance metrics for social network analysis. , 2009, , .		128
20	Media sharing based on colocation prediction in urban transport. , 2008, , .		122
21	A Random Walk around the City: New Venue Recommendation in Location-Based Social Networks. , 2012, , .		116
22	Happier People Live More Active Lives: Using Smartphones to Link Happiness and Physical Activity. PLoS ONE, 2017, 12, e0160589.	2.5	116
23	Analysing information flows and key mediators through temporal centrality metrics. , 2010, , .		114
24	An ad hoc mobility model founded on social network theory. , 2004, , .		109
25	Evolution and sustainability of a wildlife monitoring sensor network. , 2010, , .		109
26	ParkSense. , 2013, , .		108
27	Track globally, deliver locally. , 2011, , .		105
28	Characterising temporal distance and reachability in mobile and online social networks. Computer Communication Review, 2010, 40, 118-124.	1.8	101
29	Mobile Sensing at the Service of Mental Well-being. , 2017, , .		99
30	Mobile Computing Middleware. Lecture Notes in Computer Science, 2002, , 20-58.	1.3	96
31	Components in time-varying graphs. Chaos, 2012, 22, 023101.	2.5	94
32	Exploiting Foursquare and Cellular Data to Infer User Activity in Urban Environments. , 2013, , .		78
33	A multilayer approach to multiplexity and link prediction in online geo-social networks. EPJ Data Science, 2016, 5, 24.	2.8	78
34	Opportunistic spatio-temporal dissemination system for vehicular networks. , 2007, , .		76
35	Mobility Models for Systems Evaluation. , 2009, , 43-62.		73
36	Measuring Urban Social Diversity Using Interconnected Geo-Social Networks. , 2016, , .		72

#	ARTICLE	IF	CITATIONS
37	A Study of Bluetooth Low Energy performance for human proximity detection in the workplace. , 2017, , .		69
38	Centrality prediction in dynamic human contact networks. Computer Networks, 2012, 56, 983-996.	5.1	68
39	Reconfigurable Component-based Middleware for Networked Embedded Systems. International Journal of Wireless Information Networks, 2007, 14, 149-162.	2.7	67
40	Integrating security and usability into the requirements and design process. International Journal of Electronic Security and Digital Forensics, 2007, 1, 12.	0.2	66
41	SenShare: Transforming Sensor Networks into Multi-application Sensing Infrastructures. Lecture Notes in Computer Science, 2012, , 65-81.	1.3	66
42	Exploiting reflection in mobile computing middleware. Mobile Computing and Communications Review, 2002, 6, 34-44.	1.7	64
43	Reflective Middleware Solutions for Context-Aware Applications. Lecture Notes in Computer Science, 2001, , 126-133.	1.3	63
44	WILDSENSING. ACM Transactions on Sensor Networks, 2012, 8, 1-33.	3.6	63
45	Evolution of a location-based online social network. , 2012, , .		58
46	A hybrid approach for content-based publish/subscribe in vehicular networks. Pervasive and Mobile Computing, 2009, 5, 697-713.	3.3	57
47	Contextual dissonance. , 2013, , .		53
48	Extending Access Point Connectivity through Opportunistic Routing in Vehicular Networks. , 2010, , .		52
49	Opportunistic Mobile Sensor Data Collection with SCAR. , 2007, , .		51
50	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
51	SpotME If You Can: Randomized Responses for Location Obfuscation on Mobile Phones. , 2011, , .		50
52	Evaluating Temporal Robustness of Mobile Networks. IEEE Transactions on Mobile Computing, 2013, 12, 105-117.	5.8	50
53	Mining users' significant driving routes with low-power sensors. , 2014, , .		50
54	Sounds of COVID-19: exploring realistic performance of audio-based digital testing. Npj Digital Medicine, 2022, 5, 16.	10.9	48

#	ARTICLE	IF	CITATIONS
55	Hoodsquare: Modeling and Recommending Neighborhoods in Location-Based Social Networks. , 2013, , .		47
56	SelfHAR. , 2021, 5, 1-30.		47
57	Comparing citiesâ€™ cycling patterns using online shared bicycle maps. Transportation, 2015, 42, 541-559.	4.0	46
58	Persistent content-based information dissemination in hybrid vehicular networks. , 2009, , .		45
59	EMMA: Epidemic Messaging Middleware for Ad hoc networks. Personal and Ubiquitous Computing, 2006, 10, 28-36.	2.8	40
60	LEO. , 2016, , .		40
61	DSP.Ear. , 2014, , .		39
62	SCAR. , 2006, , .		38
63	The architecture of innovation. , 2014, , .		38
64	Low-resource Multi-task Audio Sensing for Mobile and Embedded Devices via Shared Deep Neural Network Representations. , 2017, 1, 1-19.		38
65	Efficient Node Discovery in Mobile Wireless Sensor Networks. , 2008, , 478-485.		38
66	The Impact of Geographic Distance on Online Social Interactions. Information Systems Frontiers, 2018, 20, 1203-1218.	6.4	36
67	Topological Properties and Temporal Dynamics of Place Networks in Urban Environments. , 2015, , .		35
68	The SATIN Component System-A Metamodel for Engineering Adaptable Mobile Systems. IEEE Transactions on Software Engineering, 2006, 32, 910-927.	5.6	34
69	METIS: Exploring mobile phone sensing offloading for efficiently supporting social sensing applications. , 2013, , .		32
70	Open source smartphone libraries for computational social science. , 2013, , .		31
71	What is this place? Inferring place categories through user patterns identification in geo-tagged tweets. , 2014, , .		29
72	Passive mobile sensing and psychological traits for large scale mood prediction. , 2019, , .		27

#	ARTICLE	IF	CITATIONS
73	Seal-2-Seal: A delay-tolerant protocol for contact logging in wildlife monitoring sensor networks. , 2008, , .		25
74	Exploiting temporal complex network metrics in mobile malware containment. , 2011, , .		25
75	Talking Places: Modelling and Analysing Linguistic Content in Foursquare. , 2012, , .		25
76	Adaptive resource discovery for ubiquitous computing. , 2004, , .		24
77	Far from the eyes, close on the web. , 2012, , .		24
78	The importance of being placefriends. , 2012, , .		24
79	Measuring user activity on an online location-based social network. , 2011, , .		23
80	Tracking urban activity growth globally with big location data. Royal Society Open Science, 2016, 3, 150688.	2.4	23
81	Applications of Temporal Graph Metrics to Real-World Networks. Understanding Complex Systems, 2013, , 135-159.	0.6	23
82	A Place-Focused Model for Social Networks in Cities. , 2013, , .		22
83	An activeâ€radioâ€frequencyâ€identification system capable of identifying coâ€locations and socialâ€structure: Validation with a wild freeâ€ranging animal. Methods in Ecology and Evolution, 2017, 8, 1822-1831.	5.2	22
84	Selective Reprogramming of Mobile Sensor Networks through Social Community Detection. Lecture Notes in Computer Science, 2010, , 178-193.	1.3	22
85	Sense and Sensibility in a Pervasive World. Lecture Notes in Computer Science, 2012, , 406-424.	1.3	22
86	Writing on the clean slate: Implementing a socially-aware protocol in Hagggle. , 2008, , .		21
87	A shared sensor network infrastructure. , 2010, , .		21
88	satin: A Component Model for Mobile Self Organisation. Lecture Notes in Computer Science, 2004, , 1303-1321.	1.3	21
89	Social and place-focused communities in location-based online social networks. European Physical Journal B, 2013, 86, 1.	1.5	20
90	CTG. , 2007, , .		19

#	ARTICLE	IF	CITATIONS
91	Predictive Resource Scheduling in Computational Grids. , 2007, , .		18
92	Smartphone sensing offloading for efficiently supporting social sensing applications. Pervasive and Mobile Computing, 2014, 10, 3-21.	3.3	18
93	Predicting the temporal activity patterns of new venues. EPJ Data Science, 2018, 7, 13.	2.8	18
94	Mobile-Based Experience Sampling for Behaviour Research. Human-computer Interaction Series, 2016, , 141-161.	0.6	18
95	Adapting asynchronous messaging middleware to ad hoc networking. , 2004, , .		17
96	Discovering Latent Patterns of Urban Cultural Interactions in WeChat for Modern City Planning. , 2018, , .		17
97	Implementing incremental code migration with XML. , 2000, , .		16
98	Wildlife and environmental monitoring using RFID and WSN technology. , 2009, , .		16
99	The Evolution of Your Success Lies at the Centre of Your Co-Authorship Network. PLoS ONE, 2015, 10, e0114302.	2.5	16
100	Deep Learning for Mobile Mental Health: Challenges and recent advances. IEEE Signal Processing Magazine, 2021, 38, 96-105.	5.6	16
101	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
102	A micro-economic approach to conflict resolution in mobile computing. , 2002, , .		15
103	ZOE. , 2015, , .		15
104	Smart Sensing Systems for the Daily Drive. IEEE Pervasive Computing, 2016, 15, 39-43.	1.3	15
105	Accelerating Mobile Audio Sensing Algorithms through On-Chip GPU Offloading. , 2017, , .		15
106	Mining open datasets for transparency in taxi transport in metropolitan environments. EPJ Data Science, 2015, 4, 23.	2.8	14
107	Breaking away from labels: The promise of self-supervised machine learning in intelligent health. Patterns, 2022, 3, 100410.	5.9	14
108	Understanding robustness of mobile networks through temporal network measures. , 2011, , .		13

#	ARTICLE	IF	CITATIONS
109	The Role of Urban Mobility in Retail Business Survival. , 2018, 2, 1-22.		12
110	On Nonstationarity of Human Contact Networks. , 2010, , .		11
111	Los Twindignados: The Rise of the Indignados Movement on Twitter. , 2012, , .		11
112	Measuring Interaction Proxemics with Wearable Light Tags. , 2018, 2, 1-30.		11
113	A node discovery service for partially mobile sensor networks. , 2007, , .		11
114	Group Colocation Behavior in Technological Social Networks. PLoS ONE, 2014, 9, e105816.	2.5	11
115	Detecting sleep outside the clinic using wearable heart rate devices. Scientific Reports, 2022, 12, 7956.	3.3	11
116	XMILE: An XML Based Approach for Incremental Code Mobility and Update. Automated Software Engineering, 2002, 9, 151-165.	2.9	10
117	Guest Editorial: Urban Computing. IEEE Transactions on Big Data, 2017, 3, 124-125.	6.1	10
118	Cultural investment and urban socio-economic development: a geosocial network approach. Royal Society Open Science, 2017, 4, 170413.	2.4	10
119	Machine learning detects altered spatial navigation features in outdoor behaviour of Alzheimer's disease patients. Scientific Reports, 2022, 12, 3160.	3.3	10
120	Performance analysis and prediction of physically mobile systems. , 2007, , .		9
121	Content Source Selection in Bluetooth Networks. , 2007, , .		9
122	Detecting Emerging Activity-Based Working Traits through Wearable Technology. , 2017, 1, 1-24.		9
123	If I build it, will they come?. , 2017, , .		9
124	Adaptable Mobile Applications: Exploiting Logical Mobility in Mobile Computing. Lecture Notes in Computer Science, 2003, , 170-179.	1.3	9
125	Principles of Mobile Computing Middleware. , 2005, , 261-280.		8
126	The International Postal Network and Other Global Flows as Proxies for National Wellbeing. PLoS ONE, 2016, 11, e0155976.	2.5	8

#	ARTICLE	IF	CITATIONS
127	CODEWEAVE: Exploring Fine-Grained Mobility of Code. Automated Software Engineering, 2004, 11, 207-243.	2.9	7
128	STOP: Socio-Temporal Opportunistic Patching of short range mobile malware. , 2012, , .		7
129	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
130	A framework for multi-region delay tolerant networking. , 2008, , .		7
131	Data collection in delay tolerant mobile sensor networks using SCAR. , 2006, , .		6
132	Beyond location check-ins: Exploring physical and soft sensing to augment social check-in apps. , 2015, , .		6
133	Developing and Deploying a Taxi Price Comparison Mobile App in the Wild: Insights and Challenges. , 2018, , .		6
134	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
135	Dynamic Reconfiguration in the RUNES Middleware. , 2006, , .		5
136	Smart phone based systems for social psychological research. , 2011, , .		5
137	Collecting big datasets of human activity one checkin at a time. , 2012, , .		5
138	Learning from Our Mistakes: Identifying Opportunities for Technology Intervention against Everyday Cognitive Failure. IEEE Pervasive Computing, 2018, 17, 22-33.	1.3	4
139	Social sensing in the field. , 2012, , .		3
140	Analyzing and refining an architectural style. Lecture Notes in Computer Science, 1997, , 347-368.	1.3	1
141	Web and Social Graph Mining [Guest editors' introduction]. IEEE Internet Computing, 2014, 18, 9-10.	3.3	1
142	Pervasive Analytics and Citizen Science [Guest editors' introduction]. IEEE Pervasive Computing, 2014, 13, 18-19.	1.3	1
143	Special issue on recommender system. CCF Transactions on Pervasive Computing and Interaction, 2019, 1, 237-239.	2.6	1
144	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

#	ARTICLE	IF	CITATIONS
145	Anticipatory Detection of Compulsive Body-focused Repetitive Behaviors with Wearables. , 2021, , .		1
146	Building Adaptable Mobile Middleware Services Using Logical Mobility Techniques. Studies in Computational Intelligence, 2007, , 3-26.	0.9	1
147	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
148	Guest Editorial: XML and Software Engineering. Automated Software Engineering, 2003, 10, 5-6.	2.9	0
149	Selective code dissemination in mobile wireless sensor networks. , 2008, , .		0
150	Welcome from the technical program chairs. , 2011, , .		0
151	Diversity decay in opportunistic content sharing systems. , 2011, , .		0
152	Bridge structural monitoring through a vibration energy harvesting wireless sensor network. , 2016, , .		0
153	The Specter of Malicious Computing: Securing the Internet of Things. IEEE Pervasive Computing, 2018, 17, 10-11.	1.3	0
154	Topic 14: Mobile and Ubiquitous Computing. Lecture Notes in Computer Science, 2012, , 753-753.	1.3	0