

Marco Mamei

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

1,875
citations

394390

19
h-index

345203

36
g-index

104
all docs

104
docs citations

104
times ranked

1398
citing authors

#	ARTICLE	IF	CITATIONS
1	Programming pervasive and mobile computing applications. ACM Transactions on Software Engineering and Methodology, 2009, 18, 1-56.	6.0	180
2	Case studies for self-organization in computer science. Journal of Systems Architecture, 2006, 52, 443-460.	4.3	141
3	Extracting urban patterns from location-based social networks. , 2011, , .		93
4	Developing pervasive multi-agent systems with nature-inspired coordination. Pervasive and Mobile Computing, 2015, 17, 236-252.	3.3	75
5	EXPERIMENTS OF MORPHOGENESIS IN SWARMS OF SIMPLE MOBILE ROBOTS. Applied Artificial Intelligence, 2004, 18, 903-919.	3.2	62
6	Social sensors and pervasive services: Approaches and perspectives. , 2011, , .		62
7	Application-Driven Network-Aware Digital Twin Management in Industrial Edge Environments. IEEE Transactions on Industrial Informatics, 2021, 17, 7791-7801.	11.3	60
8	Pervasive pheromone-based interaction with RFID tags. ACM Transactions on Autonomous and Adaptive Systems, 2007, 2, 4.	0.8	56
9	Landslide monitoring with sensor networks: experiences and lessons learnt from a real-world deployment. International Journal of Sensor Networks, 2011, 10, 111.	0.4	53
10	Self-aware Pervasive Service Ecosystems. Procedia Computer Science, 2011, 7, 197-199.	2.0	52
11	Detecting activities from body-worn accelerometers via instance-based algorithms. Pervasive and Mobile Computing, 2010, 6, 482-495.	3.3	51
12	A Simple Model and Infrastructure for Context-Aware Browsing of the World. , 2007, , .		45
13	Investigating ride sharing opportunities through mobility data analysis. Pervasive and Mobile Computing, 2014, 14, 83-94.	3.3	44
14	Mechanisms for environments in multi-agent systems: Survey and opportunities. Autonomous Agents and Multi-Agent Systems, 2006, 14, 31-47.	2.1	42
15	An Argumentation-Based Perspective Over the Social IoT. IEEE Internet of Things Journal, 2018, 5, 2537-2547.	8.7	39
16	Spray computers: Explorations in self-organization. Pervasive and Mobile Computing, 2005, 1, 1-20.	3.3	38
17	Evaluating Originâ€“Destination Matrices Obtained from CDR Data. Sensors, 2019, 19, 4470.	3.8	36
18	Pervasive social context. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-22.	4.5	31

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19	Discovering daily routines from Google Latitude with topic models. , 2011, , .		30
20	Automatic Analysis of Geotagged Photos for Intelligent Tourist Services. , 2010, , .		29
21	Re-identification and information fusion between anonymized CDR and social network data. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 83-96.	4.9	27
22	Self-organizing virtual macro sensors. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-28.	0.8	23
23	Engineering Pervasive Service Ecosystems. ACM Transactions on Autonomous and Adaptive Systems, 2015, 10, 1-27.	0.8	23
24	Spatial Computing: An Emerging Paradigm for Autonomic Computing and Communication. Lecture Notes in Computer Science, 2005, , 44-57.	1.3	22
25	WLDT: A general purpose library to build IoT digital twins. SoftwareX, 2021, 13, 100661.	2.6	22
26	Self-maintained distributed tuples for field-based coordination in dynamic networks. , 2004, , .		21
27	Comparing Deep Learning and Statistical Methods in Forecasting Crowd Distribution from Aggregated Mobile Phone Data. Applied Sciences (Switzerland), 2020, 10, 6580.	2.5	21
28	Collective Awareness for Human-ICT Collaboration in Smart Cities. , 2013, , .		19
29	Supporting location-aware services for mobile users with the whereabouts diary. , 2008, , .		19
30	Making tuple spaces physical with RFID tags. , 2006, , .		17
31	Engineering contextual knowledge for autonomic pervasive services. Information and Software Technology, 2008, 50, 36-50.	4.4	17
32	Discovering events in the city via mobile network analysis. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 265-277.	4.9	16
33	Identifying and understanding urban sport areas using Nokia Sports Tracker. Pervasive and Mobile Computing, 2013, 9, 616-628.	3.3	15
34	Re-identification of anonymized CDR datasets using social network data. , 2014, , .		15
35	Self-Organizing Spatial Shapes in Mobile Particles: The TOTA Approach. Lecture Notes in Computer Science, 2005, , 138-153.	1.3	14
36	On Recommending Opportunistic Rides. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3328-3338.	8.0	14

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37	Coordinating Distributed Speaking Objects. , 2017, , .		14
38	Pervasive Middleware Goes Social: The SAPERE Approach. , 2011, , .		13
39	Automatic identification of relevant places from cellular network data. Pervasive and Mobile Computing, 2016, 31, 147-158.	3.3	13
40	Sensing and Forecasting Crowd Distribution in Smart Cities: Potentials and Approaches. IoT, 2021, 2, 33-49.	3.8	13
41	Spatial Computing: The TOTA Approach. Lecture Notes in Computer Science, 2005, , 307-324.	1.3	12
42	Extracting High-Level Information from Location Data: The W4 Diary Example. Mobile Networks and Applications, 2009, 14, 107-119.	3.3	12
43	Integrating pervasive middleware with social networks in SAPERE. , 2011, , .		12
44	The SOTA approach to engineering collective adaptive systems. International Journal on Software Tools for Technology Transfer, 2020, 22, 399-415.	1.9	12
45	The Whereabouts Diary. , 2007, , 175-192.		12
46	Macro Programming through Bayesian Networks: Distributed Inference and Anomaly Detection. , 2007, , .		11
47	Estimating attendance from cellular network data. International Journal of Geographical Information Science, 2016, 30, 1281-1301.	4.8	11
48	Self-Organized Data Ecologies for Pervasive Situation-Aware Services: The Knowledge Networks Approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 789-802.	2.9	10
49	Classification and prediction of whereabouts patterns from the Reality Mining dataset. Pervasive and Mobile Computing, 2013, 9, 516-527.	3.3	10
50	Self-Organizing Spatial Regions for Sensor Network Infrastructures. , 2007, , .		9
51	Pervasive Self-Learning with Multi-modal Distributed Sensors. , 2008, , .		8
52	Data fusion for city life event detection. Journal of Ambient Intelligence and Humanized Computing, 2017, 8, 117-131.	4.9	8
53	Is social capital associated with synchronization in human communication? An analysis of Italian call records and measures of civic engagement. EPJ Data Science, 2018, 7, .	2.8	8
54	A Data Driven Approach to Match Demand and Supply for Public Transport Planning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6384-6394.	8.0	8

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55	Handling dynamics in diffusive aggregation schemes: An evaporative approach. <i>Future Generation Computer Systems</i> , 2010, 26, 877-889.	7.5	7
56	The changing role of pervasive middleware: From discovery and orchestration to recommendation and planning. , 2011, , .		7
57	People get together on special events: Discovering happenings in the city via cell network analysis. , 2012, , .		7
58	Integrating social sensors and pervasive services: approaches and perspectives. <i>International Journal of Pervasive Computing and Communications</i> , 2013, 9, 294-310.	1.3	7
59	Analysis of tourist classification from cellular network data. <i>Journal of Location Based Services</i> , 2018, 12, 19-39.	1.9	7
60	Programming Self-organizing Pervasive Applications with SAPERE. <i>Studies in Computational Intelligence</i> , 2014, , 93-102.	0.9	7
61	A Self-organizing Architecture for Pervasive Ecosystems. <i>Lecture Notes in Computer Science</i> , 2010, , 275-300.	1.3	6
62	WIP: Preliminary Evaluation of Digital Twins on MEC Software Architecture. , 2021, , .		6
63	Applying Commonsense Reasoning to Place Identification. <i>International Journal of Handheld Computing Research</i> , 2010, 1, 36-53.	0.4	6
64	Digital twin oriented architecture for secure and QoS aware intelligent communications in industrial environments. <i>Pervasive and Mobile Computing</i> , 2022, 85, 101646.	3.3	6
65	Knowledge networks for pervasive services. , 2009, , .		5
66	A Coordination Approach to Adaptive Pervasive Service Ecosystems. , 2011, , .		5
67	Discovering City Dynamics through Sports Tracking Applications. <i>Computer</i> , 2011, 44, 63-68.	1.1	5
68	Collective awareness and action in urban superorganisms. , 2013, , .		5
69	Towards a general infrastructure for location-based smart mobility services. , 2014, , .		5
70	Self-maintained distributed tuples for field-based coordination in dynamic networks. <i>Concurrency Computation Practice and Experience</i> , 2006, 18, 427-443.	2.2	4
71	Towards a Coordination Approach to Adaptive Pervasive Service Ecosystems. , 2011, , .		4
72	THEORY AND PRACTICE OF FIELD-BASED MOTION COORDINATION IN MULTIAGENT SYSTEMS. <i>Applied Artificial Intelligence</i> , 2006, 20, 305-326.	3.2	3

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73	All-About Digital Diaries: Opportunities and Challenges. IT Professional, 2011, 13, 37-43.	1.5	3
74	Improving Situation Recognition via Commonsense Sensor Fusion. , 2011, , .		3
75	Experiences on sensor fusion with commonsense reasoning. , 2012, , .		3
76	Investigating economic activity concentration patterns of co-agglomerations through association rule mining. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 463-476.	4.9	3
77	Augmenting the Physical Environment Through Embedded Wireless Technologies. Lecture Notes in Computer Science, 2006, , 187-204.	1.3	3
78	Programming modular robots with the TOTA middleware. , 2006, , .		2
79	Towards Self-organizing Virtual Macro Sensors. , 2007, , .		2
80	Place recognition and automatic semantic annotation via the Whereabouts diary. International Journal of Pervasive Computing and Communications, 2010, 6, 404-422.	1.3	2
81	Crowd Steering in Public Spaces: Approaches and Strategies. , 2015, , .		2
82	Improve Education Opportunities for Better Integration of Syrian Refugees in Turkey. , 2019, , 381-402.		2
83	Unsupervised learning in body-area networks. , 2010, , .		1
84	Macro Programming a Spatial Computer with Bayesian Networks. ACM Transactions on Autonomous and Adaptive Systems, 2011, 6, 1-25.	0.8	1
85	Field-Based Coordination for Pervasive Computing Applications. Lecture Notes in Computer Science, 2008, , 376-386.	1.3	1
86	CoMA Workshop Final Report. , 2007, , .		0
87	An evaporative approach to handle dynamics in diffusive aggregation schemes. , 2009, , .		0
88	Handling dynamics in gossip-based aggregation schemes. , 2009, , .		0
89	"All-about" diaries. , 2011, , .		0
90	Behavior Predictability Despite Non-Determinism in the SAPERE Ecosystem. , 2012, , .		0

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91	Classification of Livebus arrivals user behavior. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2017, 21, 375-389.	4.2	0
92	Distributed Speaking Objects: A Case for Massive Multiagent Systems. Lecture Notes in Computer Science, 2019, , 3-20.	1.3	0
93	Augmenting Mobile Localization with Activities and Common Sense Knowledge. Lecture Notes in Computer Science, 2011, , 72-81.	1.3	0
94	Middleware Infrastructures for Self-organising Pervasive Computing Systems. Natural Computing Series, 2011, , 313-344.	2.2	0
95	Multiagent Environment Design for Pervasive Human-ICT Systems: The SAPERE Approach. , 2013, , 573-580.		0
96	Social Collective Awareness in Socio-Technical Urban Superorganisms. , 2014, , 227-241.		0
97	Argumentation-Based Coordination in IoT: A Speaking Objects Proof-of-Concept. Lecture Notes in Computer Science, 2019, , 169-180.	1.3	0