

Roberto Casadei

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

668
citations

686830

13
h-index

676716

22
g-index

41
all docs

41
docs citations

41
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling and simulation of Opportunistic IoT Services with Aggregate Computing. Future Generation Computer Systems, 2019, 91, 252-262.	4.9	121
2	A development approach for collective opportunistic Edge-of-Things services. Information Sciences, 2019, 498, 154-169.	4.0	60
3	From distributed coordination to field calculus and aggregate computing. Journal of Logical and Algebraic Methods in Programming, 2019, 109, 100486.	0.4	44
4	Partitioned integration and coordination via the self-organising coordination regions pattern. Future Generation Computer Systems, 2021, 114, 44-68.	4.9	36
5	Engineering collective intelligence at the edge with aggregate processes. Engineering Applications of Artificial Intelligence, 2021, 97, 104081.	4.3	36
6	Compositional Blocks for Optimal Self-Healing Gradients. , 2017, , .		31
7	Pulverization in Cyber-Physical Systems: Engineering the Self-Organizing Logic Separated from Deployment. Future Internet, 2020, 12, 203.	2.4	25
8	Adaptive distributed monitors of spatial properties for cyber-physical systems. Journal of Systems and Software, 2021, 175, 110908.	3.3	24
9	Towards attack-resistant Aggregate Computing using trust mechanisms. Science of Computer Programming, 2018, 167, 114-137.	1.5	21
10	Simulating Large-scale Aggregate MASs with Alchemist and Scala. , 0, , .		20
11	Coordinating Computation at the Edge: a Decentralized, Self-Organizing, Spatial Approach. , 2019, , .		19
12	On execution platforms for large-scale aggregate computing. , 2016, , .		18
13	Self-organising Coordination Regions: A Pattern for Edge Computing. Lecture Notes in Computer Science, 2019, , 182-199.	1.0	16
14	From Field-Based Coordination to Aggregate Computing. Lecture Notes in Computer Science, 2018, , 252-279.	1.0	15
15	FScaFi : A Core Calculus for Collective Adaptive Systems Programming. Lecture Notes in Computer Science, 2020, , 344-360.	1.0	15
16	Programming Actor-Based Collective Adaptive Systems. Lecture Notes in Computer Science, 2018, , 94-122.	1.0	13
17	Optimal resilient distributed data collection in mobile edge environments. Computers and Electrical Engineering, 2021, 96, 107580.	3.0	13
18	Time-Fluid Field-Based Coordination through Programmable Distributed Schedulers. Logical Methods in Computer Science, 0, Volume 17, Issue 4, .	0.4	12

#	ARTICLE	IF	CITATIONS
19	A Methodology and Simulation-Based Toolchain for Estimating Deployment Performance of Smart Collective Services at the Edge. IEEE Internet of Things Journal, 2022, 9, 20136-20148.	5.5	12
20	Towards Aggregate Programming in Scala. , 2016, , .		11
21	Aggregate Processes in Field Calculus. Lecture Notes in Computer Science, 2019, , 200-217.	1.0	11
22	Digital Twins, Virtual Devices, and Augmentations for Self-Organising Cyber-Physical Collectives. Applied Sciences (Switzerland), 2022, 12, 349.	1.3	9
23	Towards Reinforcement Learning-based Aggregate Computing. Lecture Notes in Computer Science, 2022, , 72-91.	1.0	9
24	On the Social Implications of Collective Adaptive Systems. IEEE Technology and Society Magazine, 2020, 39, 36-46.	0.6	8
25	Fostering resilient execution of multi-agent plans through self-organisation. , 2021, , .		8
26	Run-Time Management of Computation Domains in Field Calculus. , 2016, , .		7
27	Collective Abstractions and Platforms for Large-Scale Self-Adaptive IoT. , 2018, , .		7
28	Engineering Resilient Collaborative Edge-Enabled IoT. , 2019, , .		6
29	Towards Integration of Multi-Agent Planning with Self-Organising Collective Processes. , 2021, , .		6
30	Transparent Protection of Aggregate Computations from Byzantine Behaviours via Blockchain. , 2018, , .		5
31	ScaFi-Web: A Web-Based Application for Field-Based Coordination Programming. Lecture Notes in Computer Science, 2021, , 285-299.	1.0	5
32	A Programming Approach to Collective Autonomy. Journal of Sensor and Actuator Networks, 2021, 10, 27.	2.3	5
33	Security in Collective Adaptive Systems: A Roadmap. , 2019, , .		4
34	Combining Trust and Aggregate Computing. Lecture Notes in Computer Science, 2018, , 507-522.	1.0	4
35	A Collective Adaptive Approach to Decentralised k-Coverage in Multi-robot Systems. ACM Transactions on Autonomous and Adaptive Systems, 2022, 17, 1-39.	0.4	4
36	Tuple-Based Coordination in Large-Scale Situated Systems. Lecture Notes in Computer Science, 2021, , 149-167.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Augmented Collective Digital Twins for Self-Organising Cyber-Physical Systems. , 2021, , .		2
38	Collective Adaptive Systems as Coordination Media: The Case of Tuples in Space-Time. , 2020, , .		1
39	Towards Pulverised Architectures for Collective Adaptive Systems through Multi-Tier Programming. , 2021, , .		1
40	On Context-Oriented Programming in Aggregate Programming. , 2019, , .		0