Sara Montagna

List of Publications by Year
in descending order

48 papers	851 citations	759055	526166
		12 h-index	27 g-index

| 49 all docs | 49 docs citations | 49 times ranked | 461 citing authors |

#	Article	IF	Citations
1	On the Integration of Agents and Digital Twins in Healthcare. Journal of Medical Systems, 2020, 44, 161.	2.2	147
2	Description and composition of bio-inspired design patterns: a complete overview. Natural Computing, 2013, 12, 43-67.	1.8	135
3	Chemical-oriented simulation of computational systems with ALCHEMIST. Journal of Simulation, 2013, 7, 202-215.	1.0	91
4	Developing pervasive multi-agent systems with nature-inspired coordination. Pervasive and Mobile Computing, 2015, 17, 236-252.	2.1	75
5	Spatial Coordination of Pervasive Services through Chemical-Inspired Tuple Spaces. ACM Transactions on Autonomous and Adaptive Systems, 2011, 6, 1-24.	0.4	57
6	Self-aware Pervasive Service Ecosystems. Procedia Computer Science, 2011, 7, 197-199.	1.2	52
7	Injecting Self-Organisation into Pervasive Service Ecosystems. Mobile Networks and Applications, 2013, 18, 398-412.	2.2	28
8	Pervasive ecosystems. , 2012, , .		24
9	BDI personal medical assistant agents: The case of trauma tracking and alerting. Artificial Intelligence in Medicine, 2019, 96, 187-197.	3.8	23
10	Web of Digital Twins. ACM Transactions on Internet Technology, 2022, 22, 1-30.	3.0	18
11	Pervasive and Connected Digital Twinsâ€"A Vision for Digital Health. IEEE Internet Computing, 2022, 26, 26-32.	3.2	16
12	BIO-CORE: Bio-inspired Self-organising Mechanisms Core. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 59-72.	0.2	16
13	Real-time tracking and documentation in trauma management. Health Informatics Journal, 2020, 26, 328-341.	1.1	15
14	A coordination model of pervasive service ecosystems. Science of Computer Programming, 2015, 110, 3-22.	1.5	13
15	A&A for modelling and engineering simulations in Systems Biology. International Journal of Agent Oriented Software Engineering, 2008, 2, 222.	0.1	12
16	Combining self-organisation, context-awareness and semantic reasoning. , 2013, , .		12
17	Description and composition of bio-inspired design patterns. , 2011, , .		10
18	A Personal Medical Digital Assistant Agent for Supporting Human Operators in Emergency Scenarios. Lecture Notes in Computer Science, 2017, , 59-75.	1.0	9

#	Article	IF	Citations
19	Gradient-Based Self-Organisation Patterns of Anticipative Adaptation. , 2012, , .		8
20	A Framework for Modelling and Simulating Networks of Cells. Electronic Notes in Theoretical Computer Science, 2010, 268, 115-129.	0.9	6
21	Modeling Intercellular Communication as a Survival Strategy of Cancer Cells: An in Silico Approach on a Flexible Bioinformatics Framework. Bioinformatics and Biology Insights, 2016, 10, BBI.S38075.	1.0	6
22	Autonomous agents and multi-agent systems applied in healthcare. Artificial Intelligence in Medicine, 2019, 96, 142-144.	3.8	6
23	The Impact of Self-Loops on Boolean Networks Attractor Landscape and Implications for Cell Differentiation Modelling. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2702-2713.	1.9	6
24	A model for drosophila melanogaster development from a single cell to stripe pattern formation. , 2012, , .		5
25	Self-Organising Semantic Resource Discovery for Pervasive Systems. , 2012, , .		5
26	A framework supporting multi-compartment stochastic simulation and parameter optimisation for investigating biological system development. Simulation, 2015, 91, 666-685.	1.1	5
27	Agent-based modeling for the self-management of chronic diseases: An exploratory study. Simulation, 2017, 93, 781-793.	1.1	5
28	Complementing Agents with Cognitive Services: A Case Study in Healthcare. Journal of Medical Systems, 2020, 44, 188.	2.2	5
29	Self-organising Pervasive Ecosystems: A Crowd Evacuation Example. Lecture Notes in Computer Science, 2011, , 115-129.	1.0	4
30	The Impact of Self-loops in Random Boolean Network Dynamics: AÂSimulation Analysis. Communications in Computer and Information Science, 2018, , 104-115.	0.4	4
31	A computational framework for modelling multicellular biochemistry. , 2009, , .		3
32	Towards Situated Awareness in Urban Networks: A Bio-Inspired Approach. , 2012, , .		3
33	Spatial awareness in pervasive ecosystems. Knowledge Engineering Review, 2016, 31, 343-366.	2.1	3
34	Extending the Gillespieâ€™s Stochastic Simulation Algorithm for Integrating Discrete-Event and Multi-Agent Based Simulation. Lecture Notes in Computer Science, 2016, , 3-18.	1.0	3
35	Pervasive Tracking for Time-Dependent Acute Patient Flow: A Case Study in Trauma Management. , 2019, , .		3
36	A simplified model of chromatin dynamics drives differentiation process in Boolean models of GRN. , 2019, , .		3

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37	Simulation of caspases apoptotic signalling pathway in a tuple space-based bioinformatics infrastructure. EMBnet Journal, 2012, 18, 94.	0.2	3
38	Spatial Coordination of Pervasive Systems through Chemical-Inspired Tuple Spaces. , 2010, , .		2
39	Applying Telemedicine for Stroke Remote Diagnosis: the TeleStroke System. Procedia Computer Science, 2022, 198, 164-170.	1.2	2
40	A biochemical metaphor for developing eternally adaptive service ecosystems. , 2009, , .		1
41	A Computational Framework for Multilevel Morphologies. Understanding Complex Systems, 2012, , 383-405.	0.3	1
42	Agent-Based Modelling in Multicellular Systems Biology. Advances in Computational Intelligence and Robotics Book Series, 2017, , 159-178.	0.4	1
43	Parameter Tuning of a Stochastic Biological Simulator by Metaheuristics. Lecture Notes in Computer Science, 2009, , 466-475.	1.0	1
44	Self-loops Favour Diversification and Asymmetric Transitions Between Attractors in Boolean Network Models. Communications in Computer and Information Science, 2019, , 30-41.	0.4	1
45	Augmenting BDI Agency with a Cognitive Service: Architecture and Validation in Healthcare Domain. Journal of Medical Systems, 2021, 45, 103.	2.2	1
46	An Internet of Medical Things System to Increase Continuous Positive Airway Pressure Usage in Patients with Sleep-Disordered Breathing. SN Computer Science, 2021, 2, 1.	2.3	0
47	The Effects of a Simplified Model of Chromatin Dynamics on Attractors Robustness in Random Boolean Networks with Self-loops: An Experimental Study. Communications in Computer and Information Science, 2020, , 28-37.	0.4	0
48	Agent-Based Modelling in Multicellular Systems Biology. , 2020, , 369-389.		0