

Alessandro Farinelli

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

588
citations

11
h-index

23
g-index

61
ext. papers

766
ext. citations

3.3
avg, IF

4.18
L-index

#	Paper	IF	Citations
55	An innovative autonomous robotic system for on-site detection of heavy metal pollution plumes in surface water.. <i>Environmental Monitoring and Assessment</i> , 2022 , 194, 122	3.1	2
54	Development of a Heavy Metal Sensing Boat for Automatic Analysis in Natural Waters Utilizing Anodic Stripping Voltammetry.. <i>ACS ES&T Water</i> , 2021 , 1, 2470-2476		1
53	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 119-130	6.1	5
52	Efficient Coalition Structure Generation via Approximately Equivalent Induced Subgraph Games. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	1
51	Partially Observable Monte Carlo Planning with state variable constraints for mobile robot navigation. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 104, 104382	7.2	2
50	Coordination approaches for multi-item pickup and delivery in logistic scenarios. <i>Robotics and Autonomous Systems</i> , 2021 , 146, 103871	3.5	0
49	Time series segmentation for state-model generation of autonomous aquatic drones: A systematic framework. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 90, 103499	7.2	6
48	Multivariate sensor signals collected by aquatic drones involved in water monitoring: A complete dataset. <i>Data in Brief</i> , 2020 , 30, 105436	1.2	1
47	Convolutional Neural Network and Stochastic Variational Gaussian Process for Heating Load Forecasting. <i>Lecture Notes in Computer Science</i> , 2020 , 244-256	0.9	1
46	Explaining the Influence of Prior Knowledge on POMCP Policies. <i>Lecture Notes in Computer Science</i> , 2020 , 261-276	0.9	0
45	Decentralised Multi-intersection Congestion Control for Connected Autonomous Vehicles. <i>Lecture Notes in Computer Science</i> , 2020 , 37-51	0.9	
44	XM_HeatForecast: Heating Load Forecasting in Smart District Heating Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 601-612	0.9	1
43	SECUR-AMA: Active Malware Analysis Based on Monte Carlo Tree Search for Android Systems. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 87, 103303	7.2	3
42	Predictive Model Generation for Load Forecasting in District Heating Networks. <i>IEEE Intelligent Systems</i> , 2020 , 1-1	4.2	
41	Cooperative Queuing Policies for Effective Scheduling of Operator Intervention. <i>Autonomous Robots</i> , 2020 , 44, 617-626	3	
40	A ROS-Based Framework for Simulation and Benchmarking of Multi-robot Patrolling Algorithms. <i>Studies in Computational Intelligence</i> , 2019 , 3-28	0.8	4
39	Double Deep Q-Network for Trajectory Generation of a Commercial 7DOF Redundant Manipulator 2019 ,		3

38	Subspace clustering for situation assessment in aquatic drones 2019 ,		4
37	Influence of State-Variable Constraints on Partially Observable Monte Carlo Planning 2019 ,		5
36	Load Forecasting in District Heating Networks: Model Comparison on a Real-World Case Study. <i>Lecture Notes in Computer Science</i> , 2019 , 553-565	0.9	4
35	Distributed Constrained Optimization Towards Effective Agent-Based Microgrid Energy Resource Management. <i>Lecture Notes in Computer Science</i> , 2019 , 438-449	0.9	1
34	A Comparative Analysis on the use of Autoencoders for Robot Security Anomaly Detection 2019 ,		4
33	Data Flow ORB-SLAM for Real-time Performance on Embedded GPU Boards 2019 ,		6
32	Subspace Clustering for Situation Assessment in Aquatic Drones: A Sensitivity Analysis for State-Model Improvement. <i>Cybernetics and Systems</i> , 2019 , 50, 658-671	1.9	3
31	Orienteering-based informative path planning for environmental monitoring. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 77, 46-58	7.2	19
30	Decentralized Power Distribution in the Smart Grid with Ancillary Lines. <i>Mobile Networks and Applications</i> , 2019 , 24, 1654-1662	2.9	0
29	Agent-Based Microgrid Scheduling: An ICT Perspective. <i>Mobile Networks and Applications</i> , 2019 , 24, 1682-1698	2.9	12
28	Biclustering with a quantum annealer. <i>Soft Computing</i> , 2018 , 22, 6247-6260	3.5	6
27	Applying max-sum to teams of mobile sensing agents. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 71, 87-99	7.2	7
26	Unsupervised activity recognition for autonomous water drones 2018 ,		5
25	Lazy max-sum for allocation of tasks with growing costs. <i>Robotics and Autonomous Systems</i> , 2018 , 110, 44-56	3.5	1
24	Distributed on-line dynamic task assignment for multi-robot patrolling. <i>Autonomous Robots</i> , 2017 , 41, 1321-1345	3	44
23	A hierarchical clustering approach to large-scale near-optimal coalition formation with quality guarantees. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 59, 170-185	7.2	14
22	A cooperative game-theoretic approach to the social ridesharing problem. <i>Artificial Intelligence</i> , 2017 , 246, 86-117	3.6	27
21	Algorithms for Graph-Constrained Coalition Formation in the Real World. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2017 , 8, 1-24	8	6

20	Decentralized Control for Power Distribution with Ancillary Lines in the Smart Grid. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 39-50	0.2	1
19	An Efficient Approach for Accelerating Bucket Elimination on GPUs. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3967-3979	10.2	2
18	Advanced approaches for multi-robot coordination in logistic scenarios. <i>Robotics and Autonomous Systems</i> , 2017 , 90, 34-44	3.5	42
17	Interacting with team oriented plans in multi-robot systems. <i>Autonomous Agents and Multi-Agent Systems</i> , 2017 , 31, 332-361	2	7
16	EXPO-AGRI: Smart automatic greenhouse control 2017 ,		1
15	Optimal Scheduling of On/Off Cycles: A Decentralized IoT-Microgrid Approach. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 79-90	0.2	2
14	A Balking Queue Approach for Modeling Human-Multi-Robot Interaction for Water Monitoring. <i>Lecture Notes in Computer Science</i> , 2017 , 212-223	0.9	1
13	Directional Visual Descriptors and Multirobot Strategies for Large-Scale Coverage Problems. <i>Journal of Field Robotics</i> , 2016 , 33, 489-511	6.7	2
12	Agent-based decentralised coordination for sensor networks using the max-sum algorithm. <i>Autonomous Agents and Multi-Agent Systems</i> , 2014 , 28, 337-380	2	35
11	A Binary Factor Graph Model for Biclustering. <i>Lecture Notes in Computer Science</i> , 2014 , 394-403	0.9	4
10	Development of intelligent service robots. <i>Intelligenza Artificiale</i> , 2013 , 7, 139-152	0.7	1
9	A Fast Approach to Form Core-Stable Coalitions Based on a Dynamic Model 2013 ,		2
8	Coalitional energy purchasing in the smart grid 2012 ,		20
7	Cooperative situation assessment in a maritime scenario. <i>International Journal of Intelligent Systems</i> , 2012 , 27, 477-501	8.4	6
6	Flood Disaster Mitigation: A Real-World Challenge Problem for Multi-agent Unmanned Surface Vehicles. <i>Lecture Notes in Computer Science</i> , 2012 , 252-269	0.9	13
5	Cooperative control through objective achievement. <i>Robotics and Autonomous Systems</i> , 2010 , 58, 910-920	3.5	4
4	Design and Implementation of Modular Software for Programming Mobile Robots. <i>International Journal of Advanced Robotic Systems</i> , 2006 , 3, 7	1.4	10
3	Allocating tasks in extreme teams 2005 ,		50

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| 2 | Multirobot systems: a classification focused on coordination. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 2015-28 | 178 |
| 1 | Generation and interpretation of parsimonious predictive models for load forecasting in smart heating networks. <i>Applied Intelligence</i> ,1 | 4-9 1 |