

# Alessandro Farinelli

## List of Publications by Citations

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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	Multirobot systems: a classification focused on coordination. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2004</b> , 34, 2015-28		178
54	Allocating tasks in extreme teams <b>2005</b> ,		50
53	Distributed on-line dynamic task assignment for multi-robot patrolling. <i>Autonomous Robots</i> , <b>2017</b> , 41, 1321-1345	3	44
52	Advanced approaches for multi-robot coordination in logistic scenarios. <i>Robotics and Autonomous Systems</i> , <b>2017</b> , 90, 34-44	3.5	42
51	Agent-based decentralised coordination for sensor networks using the max-sum algorithm. <i>Autonomous Agents and Multi-Agent Systems</i> , <b>2014</b> , 28, 337-380	2	35
50	A cooperative game-theoretic approach to the social ridesharing problem. <i>Artificial Intelligence</i> , <b>2017</b> , 246, 86-117	3.6	27
49	Coalitional energy purchasing in the smart grid <b>2012</b> ,		20
48	Orienteering-based informative path planning for environmental monitoring. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 77, 46-58	7.2	19
47	A hierarchical clustering approach to large-scale near-optimal coalition formation with quality guarantees. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 59, 170-185	7.2	14
46	Flood Disaster Mitigation: A Real-World Challenge Problem for Multi-agent Unmanned Surface Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 252-269	0.9	13
45	Agent-Based Microgrid Scheduling: An ICT Perspective. <i>Mobile Networks and Applications</i> , <b>2019</b> , 24, 1682-1698	12	
44	Design and Implementation of Modular Software for Programming Mobile Robots. <i>International Journal of Advanced Robotic Systems</i> , <b>2006</b> , 3, 7	1.4	10
43	Applying max-sum to teams of mobile sensing agents. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 71, 87-99	7.2	7
42	Interacting with team oriented plans in multi-robot systems. <i>Autonomous Agents and Multi-Agent Systems</i> , <b>2017</b> , 31, 332-361	2	7
41	Algorithms for Graph-Constrained Coalition Formation in the Real World. <i>ACM Transactions on Intelligent Systems and Technology</i> , <b>2017</b> , 8, 1-24	8	6
40	Time series segmentation for state-model generation of autonomous aquatic drones: A systematic framework. <i>Engineering Applications of Artificial Intelligence</i> , <b>2020</b> , 90, 103499	7.2	6
39	Biclustering with a quantum annealer. <i>Soft Computing</i> , <b>2018</b> , 22, 6247-6260	3.5	6

38	Cooperative situation assessment in a maritime scenario. <i>International Journal of Intelligent Systems</i> , <b>2012</b> , 27, 477-501	8.4	6
37	Data Flow ORB-SLAM for Real-time Performance on Embedded GPU Boards <b>2019</b> ,		6
36	Unsupervised activity recognition for autonomous water drones <b>2018</b> ,		5
35	Influence of State-Variable Constraints on Partially Observable Monte Carlo Planning <b>2019</b> ,		5
34	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 119-130	6.1	5
33	A ROS-Based Framework for Simulation and Benchmarking of Multi-robot Patrolling Algorithms. <i>Studies in Computational Intelligence</i> , <b>2019</b> , 3-28	0.8	4
32	Cooperative control through objective achievement. <i>Robotics and Autonomous Systems</i> , <b>2010</b> , 58, 910-920	3.5	4
31	Subspace clustering for situation assessment in aquatic drones <b>2019</b> ,		4
30	Load Forecasting in District Heating Networks: Model Comparison on a Real-World Case Study. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 553-565	0.9	4
29	A Binary Factor Graph Model for Biclustering. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 394-403	0.9	4
28	A Comparative Analysis on the use of Autoencoders for Robot Security Anomaly Detection <b>2019</b> ,		4
27	Double Deep Q-Network for Trajectory Generation of a Commercial 7DOF Redundant Manipulator <b>2019</b> ,		3
26	SECUR-AMA: Active Malware Analysis Based on Monte Carlo Tree Search for Android Systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2020</b> , 87, 103303	7.2	3
25	Subspace Clustering for Situation Assessment in Aquatic Drones: A Sensitivity Analysis for State-Model Improvement. <i>Cybernetics and Systems</i> , <b>2019</b> , 50, 658-671	1.9	3
24	An Efficient Approach for Accelerating Bucket Elimination on GPUs. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3967-3979	10.2	2
23	A Fast Approach to Form Core-Stable Coalitions Based on a Dynamic Model <b>2013</b> ,		2
22	An innovative autonomous robotic system for on-site detection of heavy metal pollution plumes in surface water.. <i>Environmental Monitoring and Assessment</i> , <b>2022</b> , 194, 122	3.1	2
21	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> , <b>2017</b> , 79-90	0.2	2

20	Directional Visual Descriptors and Multirobot Strategies for Large-Scale Coverage Problems. <i>Journal of Field Robotics</i> , <b>2016</b> , 33, 489-511	6.7	2
19	Partially Observable Monte Carlo Planning with state variable constraints for mobile robot navigation. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 104, 104382	7.2	2
18	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> , <b>2017</b> , 39-50	0.2	1
17	Multivariate sensor signals collected by aquatic drones involved in water monitoring: A complete dataset. <i>Data in Brief</i> , <b>2020</b> , 30, 105436	1.2	1
16	Development of intelligent service robots. <i>Intelligenza Artificiale</i> , <b>2013</b> , 7, 139-152	0.7	1
15	EXPO-AGRI: Smart automatic greenhouse control <b>2017</b> ,		1
14	Convolutional Neural Network and Stochastic Variational Gaussian Process for Heating Load Forecasting. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 244-256	0.9	1
13	Generation and interpretation of parsimonious predictive models for load forecasting in smart heating networks. <i>Applied Intelligence</i> , 1	4.9	1
12	Development of a Heavy Metal Sensing Boat for Automatic Analysis in Natural Waters Utilizing Anodic Stripping Voltammetry.. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 2470-2476		1
11	XM_HeatForecast: Heating Load Forecasting in Smart District Heating Networks. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 601-612	0.9	1
10	Distributed Constrained Optimization Towards Effective Agent-Based Microgrid Energy Resource Management. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 438-449	0.9	1
9	A Balking Queue Approach for Modeling Human-Multi-Robot Interaction for Water Monitoring. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 212-223	0.9	1
8	Efficient Coalition Structure Generation via Approximately Equivalent Induced Subgraph Games. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
7	Lazy max-sum for allocation of tasks with growing costs. <i>Robotics and Autonomous Systems</i> , <b>2018</b> , 110, 44-56	3.5	1
6	Explaining the Influence of Prior Knowledge on POMCP Policies. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 261-276	0.9	0
5	Decentralized Power Distribution in the Smart Grid with Ancillary Lines. <i>Mobile Networks and Applications</i> , <b>2019</b> , 24, 1654-1662	2.9	0
4	Coordination approaches for multi-item pickup and delivery in logistic scenarios. <i>Robotics and Autonomous Systems</i> , <b>2021</b> , 146, 103871	3.5	0
3	Decentralised Multi-intersection Congestion Control for Connected Autonomous Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 37-51	0.9	

- 2 Predictive Model Generation for Load Forecasting in District Heating Networks. *IEEE Intelligent Systems*, **2020**, 1-1 4.2
- 1 Cooperative Queuing Policies for Effective Scheduling of Operator Intervention. *Autonomous Robots*, **2020**, 44, 617-626 3