

Maria L Gini

List of Publications by Year in descending order

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129
papers

2,165
citations

394421

19
h-index

330143

37
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136
all docs

136
docs citations

136
times ranked

1272
citing authors

#	ARTICLE	IF	CITATIONS
1	More Trees or Larger Trees: Parallelizing Monte Carlo Tree Search. IEEE Transactions on Games, 2021, 13, 315-320.	1.4	6
2	C-Nav: Distributed coordination in crowded multi-agent navigation. Robotics and Autonomous Systems, 2020, 133, 103631.	5.1	10
3	Spoken Dialogue Systems for Medication Management. Studies in Computational Intelligence, 2020, , 119-127.	0.9	1
4	Using word embeddings to generate data-driven human agent decision-making from natural language. Geoinformatica, 2019, 23, 221-242.	2.7	14
5	Effects of Communication Restriction on Online Multi-robot Exploration in Bounded Environments. Springer Proceedings in Advanced Robotics, 2019, , 469-483.	1.3	4
6	Iterated Local Search for Time-extended Multi-robot Task Allocation with Spatio-temporal and Capacity Constraints. Journal of Intelligent Systems, 2019, 28, 347-360.	1.6	8
7	Swarm Engineering Through Quantitative Measurement of Swarm Robotic Principles in a 10,000 Robot Swarm. , 2019, , .		6
8	Communication-Restricted Exploration for Search Teams. Springer Proceedings in Advanced Robotics, 2018, , 17-30.	1.3	12
9	Lazy max-sum for allocation of tasks with growing costs. Robotics and Autonomous Systems, 2018, 110, 44-56.	5.1	4
10	ALAN: adaptive learning for multi-agent navigation. Autonomous Robots, 2018, 42, 1543-1562.	4.8	10
11	Broadening applicability of swarm-robotic foraging through constraint relaxation. , 2018, , .		4
12	Decentralized multi-robot allocation of tasks with temporal and precedence constraints. Advanced Robotics, 2017, 31, 1193-1207.	1.8	21
13	A taxonomy for task allocation problems with temporal and ordering constraints. Robotics and Autonomous Systems, 2017, 90, 55-70.	5.1	158
14	Determining child orientation from overhead video: A multiple kernel learning approach. , 2017, , .		1
15	Reports of the Workshops of the Thirty-First AAAI Conference on Artificial Intelligence. AI Magazine, 2017, 38, 72-82.	1.6	2
16	Max-Sum for Allocation of Changing Cost Tasks. Advances in Intelligent Systems and Computing, 2017, , 629-642.	0.6	3
17	Exploiting Spatial Locality and Heterogeneity of Agents for Search and Rescue Teamwork*. Journal of Field Robotics, 2016, 33, 877-900.	6.0	30
18	Decentralized allocation of tasks with temporal and precedence constraints to a team of robots. , 2016, , .		11

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19	On Optimizing Airline Ticket Purchase Timing. ACM Transactions on Intelligent Systems and Technology, 2015, 7, 1-28.	4.5	14
20	Efficient heuristics for a time-extended multi-robot task allocation problem. , 2015, , .		5
21	A framework for predicting trajectories using global and local information. , 2014, , .		5
22	Anytime navigation with Progressive Hindsight optimization. , 2014, , .		3
23	Agent-assisted supply chain management: Analysis and lessons learned. Decision Support Systems, 2014, 57, 274-284.	5.9	37
24	Multiagent Decision Making on Transportation Networks. Journal of Information Processing, 2014, 22, 307-318.	0.4	0
25	Task Allocation for Spatially and Temporally Distributed Tasks. Advances in Intelligent Systems and Computing, 2013, , 603-612.	0.6	13
26	Improving Prediction in TAC SCM by Integrating Multivariate and Temporal Aspects via PLS Regression. Lecture Notes in Business Information Processing, 2013, , 28-43.	1.0	5
27	Cooperation without Exploitation between Self-interested Agents. Advances in Intelligent Systems and Computing, 2013, , 553-562.	0.6	1
28	Improving Agent Team Performance through Helper Agents. Lecture Notes in Computer Science, 2013, , 89-105.	1.3	1
29	Real-Time Tactical and Strategic Sales Management for Intelligent Agents Guided by Economic Regimes. Information Systems Research, 2012, 23, 1263-1283.	3.7	45
30	XRobots: A flexible language for programming mobile robots based on hierarchical state machines. , 2012, , .		4
31	Compositionality of Team Mental Models in Relation to Sharedness and Team Performance. Lecture Notes in Computer Science, 2012, , 242-251.	1.3	3
32	Sustainable multi-robot patrol of an open polyline. , 2011, , .		11
33	Learning Belief Connections in a Model for Situation Awareness. Lecture Notes in Computer Science, 2011, , 373-384.	1.3	4
34	Why Robots Are More Than Just Agents. , 2010, , .		0
35	Repeated auctions for robust task execution by a robot team. Robotics and Autonomous Systems, 2010, 58, 900-909.	5.1	102
36	Multi-Agent Systems for Energy Management. Integrated Computer-Aided Engineering, 2010, 17, 271-272.	4.6	0

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37	Flexible decision support in dynamic inter-organisational networks. European Journal of Information Systems, 2010, 19, 436-448.	9.2	31
38	Coordinating Decisions in a Supply-Chain Trading Agent. Lecture Notes in Business Information Processing, 2010, , 161-174.	1.0	4
39	Decision and Coordination Strategies for RoboCup Rescue Agents. Lecture Notes in Computer Science, 2010, , 473-484.	1.3	9
40	Swarm Dispersion via Potential Fields, Leader Election, and Counting Hops. Lecture Notes in Computer Science, 2010, , 485-496.	1.3	3
41	Automated Analysis of Auction Traces. Lecture Notes in Business Information Processing, 2010, , 58-73.	1.0	0
42	Ontology-Driven Decision Support in Dynamic Supply-Chains. , 2009, , .		0
43	Predicting opponent resource allocations when qualitative and contextual information is not available. , 2009, , .		0
44	Preferences of agents in decentralized task allocation. AI Communications, 2009, 22, 143-152.	1.2	4
45	Detecting and forecasting economic regimes in multi-agent automated exchanges. Decision Support Systems, 2009, 47, 307-318.	5.9	43
46	Flexible decision control in an autonomous trading agent. Electronic Commerce Research and Applications, 2009, 8, 91-105.	5.0	31
47	Performance Evaluation of a Multi-Robot Search & Retrieval System: Experiences with MinDART. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 52, 363-387.	3.4	17
48	Appearance-based mapping using minimalistic sensor models. Autonomous Robots, 2008, 24, 229-246.	4.8	9
49	Performance Evaluation of Repeated Auctions for Robust Task Execution. Lecture Notes in Computer Science, 2008, , 317-327.	1.3	4
50	A predictive empirical model for pricing and resource allocation decisions. , 2007, , .		12
51	Decentralized task allocation using magnet. , 2007, , .		0
52	Good Experimental Methodologies for Robotic Mapping: A Proposal. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	19
53	Using Robots to Raise Interest in Technology Among Underrepresented Groups. IEEE Robotics and Automation Magazine, 2007, 14, 73-81.	2.0	12
54	Dispersing robots in an unknown environment. , 2007, , 253-262.		25

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55	Communication Strategies in Multi-robot Search and Retrieval: Experiences with MinDART. , 2007, , 317-326.		15
56	Dispersion and exploration algorithms for robots in unknown environments. , 2006, 6230, 251.		4
57	Implantable medical devices as agents and part of multiagent systems. , 2006, , .		10
58	Identifying and Forecasting Economic Regimes in TAC SCM. Lecture Notes in Computer Science, 2006, , 113-125.	1.3	7
59	Robotic Swarm Dispersion Using Wireless Intensity Signals. , 2006, , 135-144.		33
60	A Market-Pressure-Based Performance Evaluator for TAC-SCM. , 2006, , 178-188.		1
61	Rapid on-line temporal sequence prediction by an adaptive agent. , 2005, , .		4
62	Merging Partial Maps Without Using Odometry. , 2005, , 133-144.		6
63	An Evolutionary Framework for Large-Scale Experimentation in Multi-Agent Systems. , 2004, , 155-173.		1
64	Design and implementation of a secure multi-agent marketplace. Electronic Commerce Research and Applications, 2004, 3, 355-368.	5.0	25
65	An Evolutionary Approach for Studying Heterogeneous Strategies in Electronic Markets. Lecture Notes in Computer Science, 2004, , 157-168.	1.3	4
66	Predicting the Performance of Randomized Parallel Search: An Application to Robot Motion Planning. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 38, 31-53.	3.4	2
67	Guest Introduction. Autonomous Agents and Multi-Agent Systems, 2003, 6, 231-233.	2.1	0
68	Resource scheduling and load balancing in distributed robotic control systems. Robotics and Autonomous Systems, 2003, 44, 251-259.	5.1	6
69	Asking the right question: Risk and expectation in multiagent contracting. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2003, 17, 173-186.	1.1	10
70	Risk and user preferences in winner determination. , 2003, , .		0
71	Scheduling tasks with precedence constraints to solicit desirable bid combinations. , 2003, , .		7
72	An evolutionary framework for studying behaviors of economic agents. , 2003, , .		2

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73	Security model for a multi-agent marketplace. , 2003, , .		2
74	Risk and expectations in a-priori time allocation in multi-agent contracting. , 2002, , .		5
75	Agent-Based Approaches to B2B Electronic Commerce. International Journal of Electronic Commerce, 2002, 7, 7-8.	3.0	10
76	A Multi-Agent Negotiation Testbed for Contracting Tasks with Temporal and Precedence Constraints. International Journal of Electronic Commerce, 2002, 7, 35-57.	3.0	53
77	Performance of a distributed robotic system using shared communications channels. IEEE Transactions on Automation Science and Engineering, 2002, 18, 713-727.	2.3	72
78	A robot team for surveillance tasks: Design and architecture. Robotics and Autonomous Systems, 2002, 40, 173-183.	5.1	38
79	A distributed surveillance task using miniature robots. , 2002, , .		4
80	An Integer Programming Formulation of the Bid Evaluation Problem for Coordinated Tasks. The IMA Volumes in Mathematics and Its Applications, 2002, , 59-74.	0.5	7
81	Bidtree Ordering in IDA Combinatorial Auction Winner-Determination with Side Constraints. Lecture Notes in Computer Science, 2002, , 17-33.	1.3	5
82	Performance of a Distributed Robotic System Using Shared Communication Channels. Lecture Notes in Computer Science, 2002, , 211-225.	1.3	7
83	Programming and Controlling the Operations of a Team of Miniature Robots. , 2002, , 65-72.		0
84	Decision processes in agent-based automated contracting. IEEE Internet Computing, 2001, 5, 61-72.	3.3	29
85	<title>Performance of a distributed robotic system using shared communications channels</title>. , 2001, , .		2
86	Exploring decision processes in multi-agent automated contracting. , 2001, , .		3
87	Dynamic scheduling of a fixed bandwidth communications channel for controlling multiple robots. , 2001, , .		2
88	Enlisting rangers and scouts for reconnaissance and surveillance. IEEE Robotics and Automation Magazine, 2000, 7, 14-24.	2.0	86
89	A team of robotic agents for surveillance. , 2000, , .		58
90	Mixed-initiative decision support in agent-based automated contracting. , 2000, , .		16

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91	Bid Selection Strategies for Multi-agent Contracting in the Presence of Scheduling Constraints. Lecture Notes in Computer Science, 2000, , 113-130.	1.3	6
92	Document Categorization and Query Generation on the World Wide Web Using WebACE. Artificial Intelligence Review, 1999, 13, 365-391.	15.7	94
93	Repeatability of Real World Training Experiments: A Case Study. Autonomous Robots, 1999, 6, 281-292.	4.8	0
94	Partitioning-based clustering for Web document categorization. Decision Support Systems, 1999, 27, 329-341.	5.9	200
95	Bid Evaluation and Selection in the MAGNET Automated Contracting System. Lecture Notes in Computer Science, 1999, , 105-125.	1.3	11
96	A market architecture for multi-agent contracting. , 1998, , .		56
97	WebACE. , 1998, , .		114
98	A client-side Web agent for document categorization. Internet Research, 1998, 8, 387-399.	4.9	2
99	Measuring the Effectiveness of Reinforcement Learning for Behavior-Based Robots. Adaptive Behavior, 1997, 5, 365-390.	1.9	6
100	Magma an agent based virtual market for electronic commerce. Applied Artificial Intelligence, 1997, 11, 501-523.	3.2	117
101	Logical sensor/actuator : knowledge-based robotic plan execution. Journal of Experimental and Theoretical Artificial Intelligence, 1997, 9, 361-374.	2.8	4
102	Diagnosing congenital heart defects using the Fallot computational model. Artificial Intelligence in Medicine, 1997, 10, 25-40.	6.5	8
103	A case-based approach to planar linkage design. Advanced Engineering Informatics, 1997, 11, 107-119.	0.5	21
104	Designing and Building Autonomous Minirobots. Computer Science Education, 1996, 7, 223-237.	3.7	2
105	Robot navigation in a known environment with unknown moving obstacles. Autonomous Robots, 1995, 1, 149-165.	4.8	29
106	Toward Real-Time Motion Planning. Machine Intelligence and Pattern Recognition, 1994, 15, 163-175.	0.2	3
107	<title>Knowledge, execution, and what sufficiently describes sensors and actuators</title>. , 1993, , .		3
108	Error management for robot programming. Journal of Intelligent Manufacturing, 1992, 3, 59-73.	7.3	5

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109	An object-oriented approach to robot programming. Computer Integrated Manufacturing Systems, 1989, 2, 29-34.	0.1	3
110	The future of robot programming. Robotica, 1987, 5, 235-246.	1.9	13
111	From goals to manipulator programs. Computers in Industry, 1986, 7, 263-273.	9.9	0
112	Reliable real-time robot operation employing intelligent forward recovery. Journal of Field Robotics, 1986, 3, 281-300.	0.7	23
113	Standardization issues in robot languages. Computers & Standards, 1985, 4, 13-19.	0.1	0
114	A software laboratory for visual inspection and recognition. Pattern Recognition, 1985, 18, 43-51.	8.1	9
115	Robot Languages in the Eighties. , 1985, , 126-138.		4
116	Recovering from Failures: A New Challenge for Industrial Robotics. , 1984, , 579-588.		4
117	Explicit programming languages in industrial robots. Journal of Manufacturing Systems, 1983, 2, 53-60.	13.9	8
118	The integration of manipulation and vision for assembly and quality control. International Journal of Production Research, 1983, 21, 279-292.	7.5	6
119	Towards automatic error recovery in robot programs. , 1983, , 411-416.		26
120	Programming a vision system. , 1983, , 378-388.		3
121	Programming languages for manipulation and vision in industrial robots. , 1983, , 389-410.		2
122	Interactive development of object handling programs. Computer Languages, Systems and Structures, 1982, 7, 1-10.	0.3	13
123	ADA: A language for robot programming?. Computers in Industry, 1982, 3, 253-259.	9.9	9
124	DETERMINISTIC AND NONDETERMINISTIC PROGRAMMING IN ROBOT SYSTEMS. Cybernetics and Systems, 1981, 12, 345-362.	2.5	6
125	Quasinatural language in consultation systems. Information Sciences, 1980, 21, 159-177.	6.9	0
126	A serial model for computer assisted medical diagnosis. International Journal of Bio-medical Computing, 1980, 11, 99-113.	0.5	7

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127	A multi-task system for robot programming. ACM SIGPLAN Notices, 1979, 14, 11-18.	0.2	7
128	Conniver programs by logical point of view. Lecture Notes in Computer Science, 1975, , 238-245.	1.3	0
129	Learning Computer Science Through Robotics. , 0, , .		1