

Sold!: auction methods for multirobot coordination

IEEE Transactions on Automation Science and Engineering  
18, 758-768

DOI: [10.1109/tra.2002.803462](https://doi.org/10.1109/tra.2002.803462)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Multi-robot task-allocation through vacancy chains. , 0, , .		14
3	Task Allocation and Communication Methodologies for Multi-Robot Systems. Intelligent Automation and Soft Computing, 2003, 9, 217-226.	1.6	8
4	Multi-robot task allocation: analyzing the complexity and optimality of key architectures. , 0, , .		112
5	A behavior-based collaborative multi-agent system. , 0, , .		4
6	Decentralized cooperative auction for multiple agent task allocation using synchronized random number generators. , 0, , .		17
7	Taxonomy of cooperative robotic systems. , 0, , .		5
8	Application of mobile agents to robust teleoperation of internet robots in nuclear decommissioning. , 0, , .		19
9	Robot exploration with combinatorial auctions. , 0, , .		108
10	Sensor network-based multi-robot task allocation. , 0, , .		19
11	Scheduling tasks with precedence constraints to solicit desirable bid combinations. , 2003, , .		7
12	A prototype infrastructure for distributed robot-agent-person teams. , 2003, , .		84
13	Adaptive division of labor in large-scale minimalist multi-robot systems. , 0, , .		35
14	Multi-robot planning : a timed automata approach. , 2004, , .		78
16	A vision system for detecting mobile robots in office environments. , 2004, , .		6
17	A learning market based layered multi-robot architecture. , 2004, , .		7
18	Simple auctions with performance guarantees for multi-robot task allocation. , 0, , .		78
19	Call and response. , 2004, , .		121
20	A Paradigm for Dynamic Coordination of Multiple Robots. Autonomous Robots, 2004, 17, 7-21.	3.2	54

#	ARTICLE	IF	CITATIONS
21	Macroscopic Modeling of Aggregation Experiments using Embodied Agents in Teams of Constant and Time-Varying Sizes. <i>Autonomous Robots</i> , 2004, 17, 163-192.	3.2	50
22	Wireless sensor and actor networks: research challenges. <i>Ad Hoc Networks</i> , 2004, 2, 351-367.	3.4	1,286
24	BOAs: backoff adaptive scheme for task allocation with fault tolerance and uncertainty management. , 0, , .		0
25	A distributed tasks allocation scheme in multi-UAV context. , 2004, , .		121
26	Towards Multirobot Communication. , 0, , .		5
27	Multi-robot area exploration with limited-range communications. , 0, , .		11
28	Coordinated movement of multiple robots for searching a cluttered environment. , 0, , .		2
29	Reactive, distributed layered architecture for resource-bounded multi-robot cooperation: application to mobile sensor network coverage. , 2004, , .		2
30	Risk and efficiency: a distributed bidding algorithm for multi-robot coordination. , 0, , .		2
31	Evolution-Based Deliberative Planning for Cooperating Unmanned Ground Vehicles in a Dynamic Environment. <i>Lecture Notes in Computer Science</i> , 2004, , 1017-1029.	1.0	9
32	Motion planning in multi-robot systems using timed automata. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 597-602.	0.4	7
33	Implementing ALLIANCE in networked robots using mobile agents. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 376-381.	0.4	0
34	A NOVEL MULTI-ROBOT COORDINATION METHOD USING CAPABILITY CATEGORY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 319-324.	0.4	0
35	A coordination method for multiple biomimetic robotic fish box-pushing. , 0, , .		3
36	Cooperative multi-robot systems:. <i>Robotics and Autonomous Systems</i> , 2005, 53, 282-311.	3.0	70
37	Market based framework for multiple AUVs cooperation. <i>Journal of Marine Science and Application</i> , 2005, 4, 7-12.	0.7	2
38	Market-Driven Multi-Agent Collaboration in Robot Soccer Domain. , 2005, , .		18
40	A distributed coordination framework for wireless sensor and actor networks. , 2005, , .		131

#	ARTICLE	IF	CITATIONS
41	ASyMTRe: Automated Synthesis of Multi-Robot Task Solutions through Software Reconfiguration. , 0, , .		56
42	Efficient map synchronization in ad hoc mobile robot networks for environment exploration. , 2005, , .		2
43	Coordinated Box-pushing of Multiple Biomimetic Robotic Fish. , 0, , .		2
44	Task allocation for event-aware spatiotemporal sampling of environmental variables. , 2005, , .		3
45	Convoy protection using multiple unmanned aerial vehicles: organization and coordination. , 0, , .		25
46	Combinatorial Bids based Multi-robot Task Allocation Method. , 0, , .		48
47	The economic metaphor of Italian politics for dynamic coalition regeneration in the Robocup competition of Aibo robots. , 2005, , .		0
48	Decentralized approach for multi-robot task allocation problem with uncertain task execution. , 2005, , .		6
49	On the time complexity of conflict-free vehicle routing. , 0, , .		4
50	The Generation of Bidding Rules for Auction-Based Robot Coordination. , 2005, , 3-14.		63
51	Distributed multi-robot coalitions through ASyMTRe-D. , 2005, , .		9
52	Social potentials based dynamic cooperation chain. , 0, , .		3
53	Issues in Multi-Robot Coalition Formation. , 2005, , 15-26.		16
54	Minimizing data exchange in ad hoc multi-robot networks. , 0, , .		0
55	Improving cost estimation in market-based coordination of a distributed sensing task. , 2005, , .		10
56	COBOS: Cooperative backoff adaptive scheme for multirobot task allocation. , 2005, 21, 1168-1178.		54
57	Coalescent multi-robot teaming through ASyMTRe: a formal analysis. , 0, , .		7
58	Task assignment for a physical agent team via a dynamic forward/reverse auction mechanism. , 0, , .		29

#	ARTICLE	IF	CITATIONS
59	Constrained bandwidth allocation in multi-sensor information fusion: a mechanism design approach. , 2005, , .		13
60	A case study of mobile robot's energy consumption and conservation techniques. , 0, , .		71
61	Hoplites: A Market-Based Framework for Planned Tight Coordination in Multirobot Teams. , 0, , .		71
62	Queues and artificial potential trenches for multirobot formations. , 2005, 21, 646-656.		116
63	Decentralized Cooperative Conflict Resolution for Multiple Nonholonomic Vehicles. , 2005, , .		24
64	Multi-Robot Task Allocation in Lunar Mission Construction Scenarios. , 0, , .		9
65	A Machine Learning Method for Improving Task Allocation in Distributed Multi-Robot Transportation. , 2006, , 307-337.		13
66	Transport of an object by six pre-attached robots interacting via physical links. , 0, , .		28
67	Autonomic mobile sensor network with self-coordinated task allocation and execution. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 315-327.	3.3	44
68	Deadlock free dynamic resource assignment in multi-robot systems with multiple missions: a matrix-based approach. , 2006, , .		3
69	Task allocation for multi-robot teams with self-organizing agents. , 0, , .		1
70	A behavior based layered, hybrid, control architecture for robot/sensor networks. , 0, , .		3
71	Building Multirobot Coalitions Through Automated Task Solution Synthesis. Proceedings of the IEEE, 2006, 94, 1289-1305.	16.4	126
72	Market-Based Multirobot Coordination: A Survey and Analysis. Proceedings of the IEEE, 2006, 94, 1257-1270.	16.4	619
73	Market-Based Collaborations for Autonomous Operations of Unmanned Air Vehicles. , 0, , .		5
74	A Cooperative Control Structure for UAV-s Executing a Cooperative Ground Moving Target Engagement (CGMTE) Scenario. , 2006, , .		8
76	OPTIMAL TASK ALLOCATION AND DYNAMIC TRAJECTORY PLANNING FOR MULTI-VEHICLE SYSTEMS USING NONLINEAR HYBRID OPTIMAL CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 38-43.	0.4	5
77	Multi-agent robot systems as distributed autonomous systems. Advanced Engineering Informatics, 2006, 20, 59-70.	4.0	126

#	ARTICLE	IF	CITATIONS
78	Mobile agent approach to networked robots. International Journal of Advanced Manufacturing Technology, 2006, 30, 979-987.	1.5	15
79	Distributed multi-robot coordination in area exploration. Robotics and Autonomous Systems, 2006, 54, 945-955.	3.0	182
80	Enterprise integration using the agent paradigm: foundations of multi-agent-based integrative business information systems. Decision Support Systems, 2006, 42, 48-78.	3.5	89
81	Multi-Robot Autonomous Cooperation Integrated with Immune Based Dynamic Task Allocation. , 2006, , .		6
82	Multiple UAV task allocation using negotiation. , 2006, , .		41
83	Research on Optimized Multiple Robots Path Planning and Task Allocation Approach. , 2006, , .		13
84	Improving Sequential Single-Item Auctions. , 2006, , .		26
85	Probabilistic verification of a decentralized policy for conflict resolution in multi-agent systems. , 0, , .		16
86	Deployment of mobile robots with energy and timing constraints. , 2006, 22, 507-522.		190
87	Speeding-up multi-robot exploration by considering semantic place information. , 0, , .		30
88	Self assessment schemes for multi-agent cooperative search. , 2006, , .		3
89	An Iterative Algorithm for Autonomous Tasking in Sensor Networks. , 2006, , .		0
90	Dynamic task allocation for robots via auctions. , 0, , .		24
91	Distributed collaboration with limited communication using mission state estimates. , 2006, , .		16
92	Market-based Multirobot Coordination for Complex Tasks. International Journal of Robotics Research, 2006, 25, 73-101.	5.8	162
93	Task allocation with a cooperative plan for an emotionally intelligent system of multi-robots. , 2007, , .		9
94	Comparative experiments on optimization criteria and algorithms for auction based multi-robot task allocation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	21
95	Incremental multi-robot task selection for resource constrained and interrelated tasks. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
96	Distributed Sequential Auctions for Multiple UAV Task Allocation. Proceedings of the American Control Conference, 2007, , .	0.0	46
97	Dynamic redistribution of a swarm of robots among multiple sites. , 2007, , .		34
98	Fuzzy cooperative control of automated ground passenger vehicles. , 2007, , .		1
99	Pre-positioning Assets to Increase Execution Efficiency. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	2
100	Probabilistic verification of decentralized multi-agent control strategies: a Case Study in Conflict Avoidance. Proceedings of the American Control Conference, 2007, , .	0.0	2
101	SET: An algorithm for distributed multirobot task allocation with dynamic negotiation based on task subsets. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	34
102	Multi-robot routing with rewards and disjoint time windows. , 2007, , .		25
103	An Adaptive Delay-Minimized Route Design for Wireless Sensor-Actuator Networks. , 2007, , .		2
104	Upper-bound cost analysis of a market-based algorithm applied to the initial formation problem. , 2007, , .		4
105	Towards a new mobility concept for cities: architecture and programming of semi- autonomous electric vehicles. Industrial Robot, 2007, 34, 142-149.	1.2	15
106	A Flexible Architecture for Navigation Control of a Mobile Robot. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 310-318.	3.4	26
107	Decentralized Cooperative Policy for Conflict Resolution in Multivehicle Systems. , 2007, 23, 1170-1183.		193
108	Coordinated control of two biomimetic robotic fish in pushing-object task. IET Control Theory and Applications, 2007, 1, 1200-1207.	1.2	4
109	Multiple UAV Task Allocation Using Distributed Auctions. , 2007, , .		4
110	Automatically Defined Swarms for Task Allocation. , 2007, , .		1
111	Integrated Mission Specification and Task Allocation for Robot Teams - Design and Implementation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	20
112	On Scaling Multi-Agent Task Reallocation Using Market-Based Approach. , 2007, , .		12
113	Multi-robot Exploration Based on Market Approach and Immune Optimizing Strategy. , 2007, , .		3

#	ARTICLE	IF	CITATIONS
114	Predictive Intelligent Fuzzy Control for Cooperative Motion of Two Nonholonomic Wheeled Cars. , 2007, , .		1
115	Periodical Resource Allocation Using Approximated Combinatorial Auctions. , 2007, , .		12
116	A Generic Task Partitioning Framework for Internet Based Control of Multiple Co-operatively Working Robotic Devices. , 2007, , .		2
117	Profiling Pseudonet Architecture for Coordinating Mobile Robots. , 2007, , .		1
118	Real-time Motion Planning of Multiple Mobile Manipulators with a Common Task Objective in Shared Work Environments. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	8
119	Rearrangement task realization by multiple mobile robots with efficient calculation of task constraints. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	3
120	Multirobot Formations Based on the Queue-Formation Scheme With Limited Communication. , 2007, 23, 1160-1169.		38
121	Cooperative task allocation of multi-robots system in complex environment. , 2007, , .		0
122	A Complete Methodology for Generating Multi-Robot Task Solutions using ASyMTRe-D and Market-Based Task Allocation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	71
123	Communication and Coordination in Wireless Sensor and Actor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 1116-1129.	3.9	183
124	Market-Based Task Allocation Mechanisms for Limited-Capacity Suppliers. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 391-405.	3.4	48
125	Study of an Industrial Multi-Agent Framework with an Application to Multirobots Fire-rescue Simulation. , 2007, , 365-370.		1
126	Coalition formation mechanism in multi-agent systems based on genetic algorithms. Applied Soft Computing Journal, 2007, 7, 561-568.	4.1	60
127	Multi-robot mobility enhanced hop-count based localization in ad hoc networks. Robotics and Autonomous Systems, 2007, 55, 244-252.	3.0	26
128	Adaptive task assignment for multiple mobile robots via swarm intelligence approach. Robotics and Autonomous Systems, 2007, 55, 572-588.	3.0	64
129	A microeconomic approach to multi-robot team formation. , 2007, , .		2
130	Coalition Formation: From Software Agents to Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 50, 85-118.	2.0	61
131	Development environments for autonomous mobile robots: A survey. Autonomous Robots, 2007, 22, 101-132.	3.2	203



#	ARTICLE	IF	CITATIONS
132	Biologically inspired redistribution of a swarm of robots among multiple sites. Swarm Intelligence, 2008, 2, 121-141.	1.3	79
133	Efficient Boustrophedon Multi-Robot Coverage: an algorithmic approach. Annals of Mathematics and Artificial Intelligence, 2008, 52, 109-142.	0.9	151
134	Efficient exploration of unknown indoor environments using a team of mobile robots. Annals of Mathematics and Artificial Intelligence, 2008, 52, 205-227.	0.9	51
135	Distributed boundary coverage with a team of networked miniature robots using a robust market-based algorithm. Annals of Mathematics and Artificial Intelligence, 2008, 52, 307-333.	0.9	23
136	Fault detection in autonomous robots based on fault injection and learning. Autonomous Robots, 2008, 24, 49-67.	3.2	77
137	Fuzzy motion control strategy for cooperation of multiple automated vehicles with passengers comfort. Automatica, 2008, 44, 2804-2816.	3.0	25
138	Naval Mine Countermeasure Missions. IEEE Robotics and Automation Magazine, 2008, 15, 45-52.	2.2	67
139	Behavior-Based Systems. , 2008, , 891-909.		35
140	Multiple Mobile Robot Systems. , 2008, , 921-941.		168
141	Consensus-Based Auction Approaches for Decentralized Task Assignment. , 2008, , .		63
142	Coordinated multi-robot exploration using a segmentation of the environment. , 2008, , .		161
143	Optimal ant colony algorithm based multi-robot task allocation and processing sequence scheduling. , 2008, , .		5
144	Web service allocations based on combinatorial auctions and market-based mechanisms. , 2008, , .		2
145	Triangle formation motion planning of underwater Multi-microrobot system. , 2008, , .		2
146	Petri Nets based coordination of flexible autonomous guided vehicles in flexible manufacturing systems. , 2008, , .		4
147	A distributed recovery mechanism for actor-actor connectivity in wireless sensor actor networks. , 2008, , .		6
148	Bio-inspired stochastic chance-constrained multi-robot task allocation using WSN. , 2008, , .		0
149	Evolution of Solitary and Group Transport Behaviors for Autonomous Robots Capable of Self-Assembling. Adaptive Behavior, 2008, 16, 285-305.	1.1	54

#	ARTICLE	IF	CITATIONS
150	Multi-modal Task Apportionment in dynamic multi-factor systems. , 2008, , .		2
151	Multi-Robot Task Allocation Using Abandoned-Undertaking Algorithm. , 2008, , .		3
152	Social networks in simulated multi-robot environment. International Journal of Intelligent Computing and Cybernetics, 2008, 1, 110-127.	1.6	12
153	On multi-robot cooperation based on MAS and sensor information. , 2008, , .		2
154	Rearrangement Task by Multiple Mobile Robots With Efficient Calculation of Task Constraints. Advanced Robotics, 2008, 22, 191-213.	1.1	6
155	Mechanism design for sensor fusion. , 2008, , .		1
156	Multi-agent task allocation. , 2008, , .		6
157	The PIM. , 2008, , .		6
158	Task allocation for multi-robot cooperative hunting behavior based on improved auction algorithm. , 2008, , .		11
159	Decentralized coordination of autonomous AGVs in flexible manufacturing systems. , 2008, , .		29
160	An emotion-based task sharing approach for a cooperative multiagent robotic system. , 2008, , .		10
161	Dynamic task allocation method based on immune system for cooperative robots. , 2008, , .		2
162	Multi-robot Cooperative Task Processing in Great Environment. , 2008, , .		4
163	Motion planning of underwater multi-microrobot system. , 2008, , .		1
164	Notice of Violation of IEEE Publication Principles - Large-scale multi-robot task allocation based on Ant Colony Algorithm. , 2008, , .		0
165	Efficient mechanism development for multirobot coordination. International Journal of Industrial and Systems Engineering, 2008, 3, 149.	0.1	4
166	Dynamic Task Allocation in Cooperative Robot Teams. International Journal of Advanced Robotic Systems, 2009, 6, 35.	1.3	4
167	Dynamic Task Allocation in Cooperative Robot Teams. International Journal of Advanced Robotic Systems, 2009, 6, 30.	1.3	7

#	ARTICLE	IF	CITATIONS
168	Coordination strategies between UAV and AUVs for ocean exploration. , 2009, , .		3
169	Collaborator: A Nonholonomic Multiagent Team for Tasks in a Dynamic Environment. Journal of Robotics, 2009, 2009, 1-13.	0.6	0
170	Adaptive task allocation for search area coverage. , 2009, , .		15
171	Multi-robot routing with linear decreasing rewards over time. , 2009, , .		5
172	Dynamic multi-robot task allocation for intruder detection. , 2009, , .		0
173	Optimal task assignment for serial-parallel hybrid robots cooperation via ant colony optimization. , 2009, , .		2
174	Fault-tolerant formations of mobile robots. , 2009, , .		9
175	Negotiation of target points for teams of heterogeneous robots: an application to exploration. , 2009, , .		2
176	Networked architecture for multi-robot task reallocation in dynamic environment. , 2009, , .		1
177	Planning to fail &#x2014; Reliability needs to be considered a priori in multirobot task allocation. , 2009, , .		6
178	CoMutaR: A framework for multi-robot coordination and task allocation. , 2009, , .		29
179	Specialization as an optimal strategy under varying external conditions. , 2009, , .		11
180	A probabilistic model for the performance analysis of a distributed task allocation algorithm. , 2009, , .		2
181	Using GIS to Develop an Efficient Spatio-temporal Task Allocation Algorithm to Human Groups in an Entirely Dynamic Environment Case Study: Earthquake Rescue Teams. Lecture Notes in Computer Science, 2009, , 66-78.	1.0	9
182	Layered Task Allocation in Multi-robot Systems. , 2009, , .		4
183	Co-operative robot teams in a hospital environment. , 2009, , .		20
184	A Novel Strategy for Distributed Multi-robot Coordination in Area Exploration. , 2009, , .		4
185	Path-planning of underwater microrobot in 3-D space using spiral particle pathway searching approach. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
186	Teamwork in Self-Organized Robot Colonies. IEEE Transactions on Evolutionary Computation, 2009, 13, 695-711.	7.5	118
187	From Fireflies to Fault-Tolerant Swarms of Robots. IEEE Transactions on Evolutionary Computation, 2009, 13, 754-766.	7.5	137
188	An Adaptive Delay-Minimized Route Design for Wireless Sensor-Actuator Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 5083-5094.	3.9	10
189	Neural networks-based adaptive bidding with the contract net protocol in multi-robot systems. Applied Intelligence, 2009, 31, 347-362.	3.3	8
190	Multi-robot task allocation through vacancy chain scheduling. Robotics and Autonomous Systems, 2009, 57, 674-687.	3.0	80
191	Detecting and connecting disjoint sub-networks in wireless sensor and actor networks. Ad Hoc Networks, 2009, 7, 1330-1346.	3.4	38
192	Swarm robots task allocation based on response threshold model. , 2009, , .		17
193	Performance evaluation of auctions WLAN for RoboCup multi-robot cooperation. , 2009, , .		4
194	Intelligent Planning and Execution of Tasks Using Hybrid Agents. , 2009, , .		3
195	A Multi-agent Architecture for Multi-robot Surveillance. Lecture Notes in Computer Science, 2009, , 266-278.	1.0	8
196	Path-planning optimization of underwater microrobots in 3-D space by PSO Approach. , 2009, , .		7
197	Greedy extension of localized auction based protocols for wireless robot-robot coordination. , 2009, , .		4
198	Market-based dynamic task allocation in mobile surveillance systems. , 2009, , .		4
199	Simultaneous task subdivision and allocation for teams of heterogeneous robots. , 2009, , .		11
200	Dynamic complex task allocation in multisensor surveillance systems. , 2009, , .		6
201	UAV and AUVs coordination for ocean exploration. , 2009, , .		34
202	Market-based approach for multi-team robot cooperation. , 2009, , .		9
203	Optimized task allocation in cooperative robot teams. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
204	Consensus-Based Decentralized Auctions for Robust Task Allocation. IEEE Transactions on Robotics, 2009, 25, 912-926.	7.3	680
205	A decision framework for operation management of reconfigurable mobile service robots in hospitals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 151-156.	0.4	2
206	Evolutionary Computation Approach to Decentralized Multi-robot Task Allocation. , 2009, , .		7
207	Planning to fail: using reliability to improve multirobot task allocation. Proceedings of SPIE, 2010, , .	0.8	0
208	A Multi-robot Auction Method to Allocate Tasks with Deadlines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 461-466.	0.4	6
209	A Framework for Information Distribution, Task Execution and Decision Making in Multi-Robot Systems. IEICE Transactions on Information and Systems, 2010, E93-D, 1352-1360.	0.4	7
210	Cooperative control through objective achievement. Robotics and Autonomous Systems, 2010, 58, 910-920.	3.0	5
211	Deadlock-free dynamic resource assignment in multi-robot systems with multiple missions: application in wireless sensor networks. Journal of Control Theory and Applications, 2010, 8, 12-19.	0.8	1
212	Memetic Mission Management [Application Notes. IEEE Computational Intelligence Magazine, 2010, 5, 32-40.	3.4	8
213	Robot to Robot. IEEE Robotics and Automation Magazine, 2010, 17, 63-69.	2.2	28
214	Agent formations in 3D spaces with communication limitations using an adaptive Q-structure. Robotics and Autonomous Systems, 2010, 58, 333-348.	3.0	5
215	Repeated auctions for robust task execution by a robot team. Robotics and Autonomous Systems, 2010, 58, 900-909.	3.0	102
216	Open-ended evolution as a means to self-organize heterogeneous multi-robot systems in real time. Robotics and Autonomous Systems, 2010, 58, 1282-1291.	3.0	34
217	An adaptive information dissemination of decentralized warship cooperative engagement with constrained bandwidth based on a geodetic coordinate system. Simulation Modelling Practice and Theory, 2010, 18, 1130-1144.	2.2	2
218	A Multi-Robot Control Architecture for Fault-Tolerant Sensor-Based Coverage. International Journal of Advanced Robotic Systems, 2010, 7, 4.	1.3	14
219	Towards the Robotic "Avatar": An Extensive Survey of the Cooperation between and within Networked Mobile Sensors. Future Internet, 2010, 2, 363-387.	2.4	9
220	Probabilistic Analysis of Market-based Algorithms for Initial Robotic Formations. International Journal of Robotics Research, 2010, 29, 1154-1172.	5.8	4
221	Greedy Algorithm Based Multiple Target Searching for Mobile Robots. Applied Mechanics and Materials, 2010, 44-47, 1335-1339.	0.2	0

#	ARTICLE	IF	CITATIONS
222	Imitation learning for task allocation. , 2010, , .		14
223	Resource constrained multirobot task allocation with a leader-follower coalition method. , 2010, , .		3
224	Underwater box-pushing with multiple vision-based autonomous robotic fish. , 2010, , .		1
225	Development of an Infrared Sensor-based Wireless Intelligent Fish-like Underwater Microrobot. , 2010, , .		11
226	IQ-ASyMTRe: Synthesizing coalition formation and execution for tightly-coupled multirobot tasks. , 2010, , .		10
227	The task allocation model based on reputation for the heterogeneous multi-robot collaboration system. , 2010, , .		1
228	Cooperative behavior generation method using local communication for distributed multi-agent systems. , 2010, , .		0
229	Cooperative caging using autonomous aquatic surface vehicles. , 2010, , .		24
230	Multirobot coordination by auctioning POMDPs. , 2010, , .		12
231	A fast and frugal method for team-task allocation in a multi-robot transportation system. , 2010, , .		31
232	Object Interaction Language (OIL): An intent-based language for programming self-organized sensor/actuator networks. , 2010, , .		2
233	A novel Stochastic Clustering Auction for task allocation in multi-robot teams. , 2010, , .		7
234	Distributed and Centralized Task Allocation: When and Where to Use Them. , 2010, , .		13
235	Navigation of multi-robot formation in unstructured environment using dynamical virtual structures. , 2010, , .		21
236	A general information quality based approach for satisfying sensor constraints in multirobot tasks. , 2010, , .		5
237	Interconnected performance optimization in complex robotic systems. , 2010, , .		2
238	A decentralized multi-robot system for intruder detection in security defense. , 2010, , .		12
239	Auction protocol for camera active control. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
240	Fleet size of robots for rescue missions. , 2010, , .		2
241	Firemen monitoring with multiple UAVs for search and rescue missions. , 2010, , .		16
242	Market-based task allocation by using assignment problem. , 2010, , .		12
243	Multi-robot task allocation and scheduling based on fish swarm algorithm. , 2010, , .		9
244	An experimental study on leader-follower coalition method for solving multirobot task allocation problems. , 2010, , .		1
245	Predictive Planning for Heterogeneous Human-Robot Teams. , 2010, , .		20
246	Modeling Distributed Transportation Systems Composed of Flexible Automated Guided Vehicles in Flexible Manufacturing Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 166-180.	7.2	106
248	Decentralised cooperative aerial surveillance for harbour security: A formal verification approach. , 2010, , .		1
249	Motion control of an underwater microrobot system in 3-D space. , 2010, , .		6
250	Autonomous market-based multi-robot cooperation. , 2010, , .		3
251	An online coalition based approach to solving resource constrained multirobot task allocation problem. , 2010, , .		4
252	Research on MAS-ITS society behavior coordination model. , 2010, , .		0
253	Multi-robot cooperative formation for overweight object transportation. , 2011, , .		19
254	Multi-robot assignment algorithm for tasks with set precedence constraints. , 2011, , .		7
255	Distributed Active Objects – A Systemic Approach to Distributed Mobile Applications. , 2011, , .		6
256	Cooperative task execution between modular robots based on tight-loose cooperation strategies. , 2011, , .		4
257	A market based distributed cooperation mechanism in a multi-robot transportation problem. , 2011, , .		4
258	Decentralized task-oriented local group generation for robot swarms. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
259	Sensor-weapon-target assignment based on improved SWT-opt algorithm. , 2011, , .		6
260	Auction aggregation protocols for agent-based task assignment in multi-hop wireless sensor and robot networks. , 2011, , .		5
261	Distributed Task Assignment in Mobile Sensor Networks. IEEE Transactions on Automatic Control, 2011, 56, 2485-2489.	3.6	17
262	A comparative study of dynamical sequential and global optimal task reallocation methodology for distributed multi-robot system. , 2011, , .		2
263	Dynamical task allocation and reallocation based on body expansion behavior for multi-robot coordination system. , 2011, , .		7
264	Improved trade-based multi-robot coordination. , 2011, , .		6
265	Multi-Robot Task Allocation Based on Swarm Intelligence. , 0, , .		7
266	Macroscopic modeling of stochastic deployment policies with time delays for robot ensembles. International Journal of Robotics Research, 2011, 30, 590-600.	5.8	17
267	Solution space reasoning to improve IQ-ASyMTRe in tightly-coupled multirobot tasks. , 2011, , .		1
268	Distributed assignment of real-time tasks in wireless sensor actor networks. IEICE Electronics Express, 2011, 8, 429-435.	0.3	3
269	An Extension of Particle Swarm Optimization Based on Partial Initialization (The 2nd Report,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 2084-2095.	0.2	0
270	Motion-control analysis of ICPF-actuated underwater biomimetic microrobots. International Journal of Mechatronics and Automation, 2011, 1, 79.	0.1	76
271	Cooperative box-pushing with multiple autonomous robotic fish in underwater environment. IET Control Theory and Applications, 2011, 5, 2015-2022.	1.2	29
272	Experimental Results in Multi-UAV Coordination for Disaster Management and Civil Security Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 563-585.	2.0	321
273	Complex Task Allocation in Mobile Surveillance Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 33-55.	2.0	34
274	A Generic Framework for Distributed Multirobot Cooperation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 323-358.	2.0	25
275	Multi-agent role allocation: issues, approaches, and multiple perspectives. Autonomous Agents and Multi-Agent Systems, 2011, 22, 317-355.	1.3	59
276	Solving efficiently Decentralized MDPs with temporal and resource constraints. Autonomous Agents and Multi-Agent Systems, 2011, 23, 486-539.	1.3	5



#	ARTICLE	IF	CITATIONS
277	Schedule coordination through egalitarian recurrent multi-unit combinatorial auctions. Applied Intelligence, 2011, 34, 47-63.	3.3	20
278	Time-extended multi-robot coordination for domains with intra-path constraints. Autonomous Robots, 2011, 30, 41-56.	3.2	75
279	Balancing task allocation in multi-robot systems using K-means clustering and auction based mechanisms. Expert Systems With Applications, 2011, 38, 6486-6491.	4.4	103
280	A spatial orthogonal allocation and heterogeneous cultural hybrid algorithm for multirobot exploration mission planning. Journal of Control Theory and Applications, 2011, 9, 171-176.	0.8	7
281	A distributed architecture for a robotic platform with aerial sensor transportation and self-deployment capabilities. Journal of Field Robotics, 2011, 28, 303-328.	3.2	77
282	Aerial remote sensing in agriculture: A practical approach to area coverage and path planning for fleets of mini aerial robots. Journal of Field Robotics, 2011, 28, 667-689.	3.2	209
283	Cooperative Pollution Supervising and Neutralization with Multi-actuator-sensor Network. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 107-113.	1.5	2
284	Runtime models for automatic reorganization of multi-robot systems. , 2011, , .		14
285	Control architecture of material handling vehicles. , 2011, , .		0
286	A* Algorithm Based Robot Path Planning Method. Applied Mechanics and Materials, 2011, 63-64, 686-689.	0.2	1
287	Assessing optimal assignment under uncertainty: An interval-based algorithm. International Journal of Robotics Research, 2011, 30, 936-953.	5.8	44
288	A unifying framework for iterative approximate best-response algorithms for distributed constraint optimization problems. Knowledge Engineering Review, 2011, 26, 411-444.	2.1	35
289	Decision making based on localized auctions in wireless sensor networks. , 2011, , .		1
290	A preference-based task allocation framework for multi-robot coordination. , 2011, , .		6
291	Resource constrained multirobot task allocation based on leader-follower coalition methodology. International Journal of Robotics Research, 2011, 30, 1423-1434.	5.8	43
292	A Behavior-Based Strategy for Single and Multi-Robot Autonomous Exploration. Sensors, 2012, 12, 12772-12797.	2.1	25
293	Centralized and distributed task allocation in multi-robot teams via a stochastic clustering auction. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-22.	0.4	67
294	Ensemble synthesis of distributed control and communication strategies. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
295	Task allocation with executable coalitions in multirobot tasks. , 2012, , .		13
296	Bio-inspired multi-robot communication through behavior recognition. , 2012, , .		12
297	Market-Based Task Allocation in a Multi-robot Surveillance System. , 2012, , .		3
298	Part dispatching rule-based multi-robot coordination in pick-and-place task. , 2012, , .		5
299	New path planning scheme for complete coverage of mapped areas by single and multiple robots. , 2012, , .		7
300	Coordination in a multi-robot surveillance application using Wireless Sensor Networks. , 2012, , .		9
301	VARIABLE PATROL PLANNING OF MULTI-ROBOT SYSTEMS BY A COOPERATIVE AUCTION SYSTEM. Cybernetics and Systems, 2012, 43, 476-492.	1.6	2
302	An efficient stochastic clustering auction for heterogeneous robot teams. , 2012, , .		3
303	Competitive analysis of repeated greedy auction algorithm for online multi-robot task assignment. , 2012, , .		13
304	Dynamic task allocation in cooperative robot teams. Robotica, 2012, 30, 721-730.	1.3	23
305	Altruistic Distributed Target Allocation for Stable Navigation in Formation of Multi-robot System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 676-681.	0.4	5
306	Moving task allocation and reallocation method based on body expansion behaviour for distributed multi-robot coordination. International Journal of Mechatronics and Automation, 2012, 2, 240.	0.1	1
307	A Flooding Algorithm for Multirobot Exploration. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 850-863.	5.5	11
308	Multi-robot coalition formation in real-time scenarios. Robotics and Autonomous Systems, 2012, 60, 1295-1307.	3.0	47
309	Development of a reduced human user input task allocation method for multiple robots. Robotics and Autonomous Systems, 2012, 60, 1231-1244.	3.0	4
310	MuRoCo: A Framework for Capability- and Situation-Aware Coalition Formation in Cooperative Multi-Robot Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 339-370.	2.0	6
311	Swarm-like Methodologies for Executing Tasks with Deadlines. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 68, 3-19.	2.0	5
312	Social-welfare based task allocation for multi-robot systems with resource constraints. Computers and Industrial Engineering, 2012, 63, 994-1002.	3.4	23

#	ARTICLE	IF	CITATIONS
313	xBots: An approach to generating and executing optimal multi-robot plans with cross-schedule dependencies. , 2012, , .		33
314	Resource constrained multirobot task allocation with an optimal solution. , 2012, , .		1
316	Ensemble modeling and control for congestion management in automated warehouses. , 2012, , .		7
317	Agent-based task assignment in multi-hop wireless sensor and robot networks improved by iMesh and auctions. , 2012, , .		1
318	Multi-UAV task allocation with communication faults. , 2012, , .		11
319	Auction-based task allocation for teams of self-reconfigurable robots. , 2012, , .		2
320	A Local Search Approach for Improving Multi-Robot Routing in Exploration Missions. , 2012, , .		0
321	Efficient Allocation of Agent Groups for Complex Tasks in Real Cost Environments. , 2012, , .		0
322	Intelligent exploration and surveillance algorithms for multi-agents robotics systems. , 2012, , .		1
323	Coalition-Based Approach to Task Allocation of Multiple Robots With Resource Constraints. IEEE Transactions on Automation Science and Engineering, 2012, 9, 516-528.	3.4	43
324	Cooperative Robotic Exploration and Transport of Unknown Objects. , 2012, , .		3
325	Achievement of &#x2018;Mikoshi&#x2019; with multiple humanoid robots as coordinated navigation problem based on real-time 3D space recognition in a dynamic environment. , 2012, , .		1
326	Task assignment in wireless sensor and robot networks. , 2012, , .		12
327	Real-world implementation of an Auction Behavior-Based Robotic Architecture (ABBRA). , 2012, , .		2
328	Decentralized task allocation for heterogeneous agent systems with constraints on agent capacity and critical tasks. , 2012, , .		7
330	Market-Based Approach to Mobile Surveillance Systems. Journal of Robotics, 2012, 2012, 1-14.	0.6	2
331	I Have a Robot, and Iâ€™m Not Afraid to Use It!. AI Magazine, 2012, 33, 66.	1.4	0
332	Combining coordination mechanisms to improve performance in multi-robot teams. Artificial Intelligence Research, 2012, 1, 1.	0.3	0

#	ARTICLE	IF	CITATIONS
333	A framework for multi-robot motion planning from temporal logic specifications. Science China Information Sciences, 2012, 55, 1675-1692.	2.7	13
334	Multirobot coordination in pick-and-place tasks on a moving conveyor. Robotics and Computer-Integrated Manufacturing, 2012, 28, 530-538.	6.1	48
335	Cooperative caging and transport using autonomous aquatic surface vehicles. Intelligent Service Robotics, 2012, 5, 73-87.	1.6	18
336	Collaborative Tasks Between Robots Based on the Digital Home Compliant Protocol over UPnP. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 357-371.	2.0	4
337	An Efficient Stochastic Clustering Auction for Heterogeneous Robotic Collaborative Teams. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 541-558.	2.0	29
338	Multi-robot, dynamic task allocation: a case study. Intelligent Service Robotics, 2013, 6, 137-154.	1.6	5
339	A comprehensive taxonomy for multi-robot task allocation. International Journal of Robotics Research, 2013, 32, 1495-1512.	5.8	407
340	Decentralized task allocation for surveillance systems with critical tasks. Robotics and Autonomous Systems, 2013, 61, 1653-1664.	3.0	31
341	Distributed algorithm design for multi-robot generalized task assignment problem. , 2013, , .		10
342	Auction-based node selection of optimal and concurrent responses for a risk-aware robotic sensor network. , 2013, , .		4
343	Improving combinatorial auctions for multi-robot exploration. , 2013, , .		5
344	Market-based approach to Multi-robot Task Allocation. , 2013, , .		18
345	A survey and analysis of task allocation algorithms in multi-robot systems. , 2013, , .		23
346	IQ-ASyMTRe: Forming Executable Coalitions for Tightly Coupled Multirobot Tasks. IEEE Transactions on Robotics, 2013, 29, 400-416.	7.3	34
347	Simulation-based risk assessment of robot fleets in flooded environments. , 2013, , .		2
348	Short paper adapting the contract net protocol for publish/subscribe messaging. , 2013, , .		0
349	Robustness in the Presence of Task Differentiation in Robot Ensembles. Lecture Notes in Electrical Engineering, 2013, , 93-108.	0.3	0
350	Cooperation Between Underwater Vehicles. , 2013, , 257-286.		6

#	ARTICLE	IF	CITATIONS
351	Auctions and iMesh based task assignment in wireless sensor and actuator networks. Computer Communications, 2013, 36, 979-987.	3.1	21
352	Decentralized Task Re-planning Approaches with en Route Information Rewards. Advances in Intelligent Systems and Computing, 2013, , 599-609.	0.5	1
353	Actuator Task Assignment Based on Auction Method in Wireless Sensor and Actuator Networks. Applied Mechanics and Materials, 0, 373-375, 306-310.	0.2	3
354	Simultaneous Auctions for &#x0022;Rendez-Vous&#x0022; Coordination Phases in Multi-robot Multi-task Mission. , 2013, , .		7
355	High-Level Mission Specification and Planning for Collaborative Unmanned Aircraft Systems Using Delegation. Unmanned Systems, 2013, 01, 75-119.	2.7	32
356	A Multi-robot Exploration Approach Based on Distributed Graph Coloring. , 2013, , .		8
357	Comparison of auction-based methods for task allocation problem in multi-robot systems. , 2013, , .		4
358	Distributed algorithm design for multi-robot task assignment with deadlines for tasks. , 2013, , .		33
359	Multi-robot simultaneous localization and uncertainty reduction on maps (MR-SLURM). , 2013, , .		3
360	Toward a real-time heterogeneous mobile robotic swarm: Robot platform and agent architecture. , 2013, , .		3
361	Model-predictive target defense by team of unmanned surface vehicles operating in uncertain environments. , 2013, , .		15
362	Effective Task Allocation for Evolving Multi-robot Teams in Dangerous Environments. , 2013, , .		10
363	Cooperative guidance laws for maneuvering target interceptions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 301-306.	0.4	2
364	Scalable Task Assignment for Heterogeneous Multi-Robot Teams. International Journal of Advanced Robotic Systems, 2013, 10, 105.	1.3	18
365	Multi-Robot Coordination in Complex Environment with Task and Communication Constraints. International Journal of Advanced Robotic Systems, 2013, 10, 229.	1.3	12
366	A Survey and Analysis of Multi-Robot Coordination. International Journal of Advanced Robotic Systems, 2013, 10, 399.	1.3	424
367	Distributed allocation of mobile sensing swarms in gyre flows. Nonlinear Processes in Geophysics, 2013, 20, 657-668.	0.6	26
368	A Comparative Study between Optimization and Market-Based Approaches to Multi-Robot Task Allocation. Advances in Artificial Intelligence, 2013, 2013, 1-11.	0.9	47

#	ARTICLE	IF	CITATIONS
369	Modeling of Task Planning for Multirobot System Using Reputation Mechanism. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	0
370	A simultaneous descending auction for task allocation. , 2014, , .		6
371	Ad Hoc Network-Based Task Allocation With Resource-Aware Cost Generation for Multirobot Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 6871-6881.	5.2	25
372	From selfish auctioning to incentivized marketing. Autonomous Robots, 2014, 37, 417-430.	3.2	2
373	An algorithm for cooperative task allocation in scalable, constrained multiple robot systems. Intelligent Service Robotics, 2014, 7, 221-233.	1.6	7
374	On Terrain Coverage Optimization by Using a Network Approach for Universal Graph-Based Data Mining and Knowledge Discovery. Lecture Notes in Computer Science, 2014, , 564-573.	1.0	2
375	Task Distribution Model Based on Robot Capacity in Multi-Robot System. Applied Mechanics and Materials, 2014, 494-495, 1182-1188.	0.2	0
376	A Balanced Heuristic Mechanism for Multirobot Task Allocation of Intelligent Warehouses. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	17
377	Simultaneous allocations of multiple tightly-coupled multi-robot tasks to coalitions of heterogeneous robots. , 2014, , .		7
378	Handling uncertainty of resource division in multi agent system using game against nature. Archives of Control Sciences, 2014, 24, 351-373.	1.7	0
379	Multi-robot coalition formation based on credit mechanism. , 2014, , .		1
380	Optimized task distribution for industrial assembly in mixed human-robot environments - Case study on IO module assembly. , 2014, , .		26
381	On the role of multi-objective optimization in risk mitigation for critical infrastructures with robotic sensor networks. , 2014, , .		3
382	Concurrent Moving-Based Connection Restoration Scheme between Actors to Ensure the Continuous Connectivity in WSANs. , 2014, , .		0
383	Artificial immune system based framework for multi-robot cooperation. , 2014, , .		3
384	A resource allocation strategy in a robotic ad-hoc network. , 2014, , .		5
385	Hierarchical auction-based mechanism for real-time resource retrieval in cloud mobile robotic system. , 2014, , .		18
386	Autonomous and cooperative multirobot system for multi-object transportation. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
387	Synthesis and analysis of distributed ensemble control strategies for allocation to multiple tasks. <i>Robotica</i> , 2014, 32, 177-192.	1.3	10
388	AUV behavior recognition using behavior histograms, HMMs, and CRFs. <i>Robotica</i> , 2014, 32, 291-304.	1.3	4
389	Rescheduling policies for large-scale task allocation of autonomous straddle carriers under uncertainty at automated container terminals. <i>Robotics and Autonomous Systems</i> , 2014, 62, 506-514.	3.0	30
390	A Two-Phase Dispatch Heuristic to Schedule the Movement of Multi-Attribute Mobile Sensors in a Hybrid Wireless Sensor Network. <i>IEEE Transactions on Mobile Computing</i> , 2014, 13, 709-722.	3.9	43
391	A Tutorial on Optimization for Multi-Agent Systems. <i>Computer Journal</i> , 2014, 57, 799-824.	1.5	21
392	Non-additive multi-objective robot coalition formation. <i>Expert Systems With Applications</i> , 2014, 41, 3736-3747.	4.4	21
393	An auction behavior-based robotic architecture for service robotics. <i>Intelligent Service Robotics</i> , 2014, 7, 157-174.	1.6	3
394	Role of Parallelism in Ambulance Dispatching. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014, 44, 1113-1122.	5.9	10
395	Dynamic Multi-Task Allocation for Collaborative Unmanned Aircraft Systems. , 2014, , .		8
396	Stable navigation in formation for a multi-robot system based on a constrained virtual structure. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1806-1815.	3.0	40
397	On the choice of obtaining and disclosing the common value in auctions. <i>Artificial Intelligence</i> , 2014, 215, 24-54.	3.9	9
398	Local interactions over global broadcasts for improved task allocation in self-organized multi-robot systems. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1453-1462.	3.0	22
399	Robotic resource allocation for the observation of ablating target sources. , 2014, , .		2
400	A mechanism for real-time decision making and system maintenance for resource constrained robotic systems through ReFrESH. <i>Autonomous Robots</i> , 2015, 39, 487-502.	3.2	10
401	Communication constrained task allocation with optimized local task swaps. <i>Autonomous Robots</i> , 2015, 39, 429-444.	3.2	13
402	Multi-robot task acquisition through sparse coordination. , 2015, , .		1
403	Simultaneous Task Subdivision and Allocation Using Negotiations in Multi-Robot Systems. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 16.	1.3	6
404	Multi-Robot Item Delivery and Foraging: Two Sides of a Coin. <i>Robotics</i> , 2015, 4, 365-397.	2.1	5

#	ARTICLE	IF	CITATIONS
405	A Spatial Queuing-Based Algorithm for Multi-Robot Task Allocation. <i>Robotics</i> , 2015, 4, 316-340.	2.1	6
406	Occlusion-Based Cooperative Transport with a Swarm of Miniature Mobile Robots. <i>IEEE Transactions on Robotics</i> , 2015, 31, 307-321.	7.3	114
407	From Goods to Traffic: First Steps Toward an Auction-Based Traffic Signal Controller. <i>Lecture Notes in Computer Science</i> , 2015, , 187-198.	1.0	8
408	Swarm Intelligence in Optimization and Robotics. , 2015, , 1291-1309.		18
409	Multi-Robot Task Allocation Approach Using ROS. , 2015, , .		4
410	Assignment Algorithms for Modeling Resource Contention in Multirobot Task Allocation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 889-900.	3.4	30
411	Implicit adaptive multi-robot coordination in dynamic environments. , 2015, , .		10
412	A Content-Based Adaptive Event Routing Algorithm. , 2015, , .		0
413	Multi-agent approach for task allocation and scheduling in cooperative heterogeneous multi-robot team: Simulation results. , 2015, , .		13
414	Time-varying environment coverage control by multi-robot systems. , 2015, , .		2
415	Overcoming Limited Onboard Sensing in Swarm Robotics Through Local Communication. <i>Lecture Notes in Computer Science</i> , 2015, , 201-223.	1.0	6
416	A Potential-Game Approach for Information-Maximizing Cooperative Planning of Sensor Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 2326-2335.	3.2	20
417	Multi-UAV Task Allocation: A Team-Based Approach. , 2015, , .		6
418	Multi-robot task scheduling and routing using neuro-fuzzy control. , 2015, , .		6
419	A Resource-Oriented, Decentralized Auction Algorithm for Multirobot Task Allocation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 1469-1481.	3.4	49
420	Modular robot systems towards the execution of cooperative tasks in large facilities. <i>Robotics and Autonomous Systems</i> , 2015, 66, 159-174.	3.0	17
421	Provably-Good Distributed Algorithm for Constrained Multi-Robot Task Assignment for Grouped Tasks. <i>IEEE Transactions on Robotics</i> , 2015, 31, 19-30.	7.3	67
422	Spatially targeted communication in decentralized multirobot systems. <i>Autonomous Robots</i> , 2015, 38, 439-457.	3.2	9



#	ARTICLE	IF	CITATIONS
423	Dynamic heterogeneous team formation for robotic urban search and rescue. Journal of Computer and System Sciences, 2015, 81, 553-567.	0.9	36
424	A Distributed Task Allocation Algorithm for a Multi-Robot System in Healthcare Facilities. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 33-58.	2.0	66
425	Resource Welfare Based Task Allocation for UAV Team with Resource Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 611-627.	2.0	36
426	To err is robotic, to tolerate immunological: fault detection in multirobot systems. Bioinspiration and Biomimetics, 2015, 10, 016014.	1.5	30
427	An influence diagram based multi-criteria decision making framework for multirobot coalition formation. Autonomous Agents and Multi-Agent Systems, 2015, 29, 1061-1090.	1.3	13
428	Collective Manipulation and Construction. , 2015, , 1395-1406.		1
429	Multiple Autonomous Robotic Fish Collaboration. Springer Tracts in Mechanical Engineering, 2015, , 315-357.	0.1	1
430	Task allocation for reconfigurable teams. Robotics and Autonomous Systems, 2015, 68, 59-71.	3.0	8
431	Scaling DCOP algorithms for cooperative multi-agent coordination. Constraints, 2015, 20, 496-497.	0.4	1
432	Parallel multi-objective multi-robot coalition formation. Expert Systems With Applications, 2015, 42, 7797-7811.	4.4	30
433	Distributed Algorithms for Multirobot Task Assignment With Task Deadline Constraints. IEEE Transactions on Automation Science and Engineering, 2015, 12, 876-888.	3.4	71
434	A brief survey and analysis of multi-robot communication and coordination. , 2015, , .		57
435	Tracking multiple mobile targets using cooperative Unmanned Aerial Vehicles. , 2015, , .		20
436	Optimal bid valuation using path finding for multi-robot task allocation. Journal of Intelligent Manufacturing, 2015, 26, 1049-1062.	4.4	19
437	Model-predictive asset guarding by team of autonomous surface vehicles in environment with civilian boats. Autonomous Robots, 2015, 38, 261-282.	3.2	27
438	Classification of Multi-UAV Architectures. , 2015, , 953-975.		33
439	Cooperative Mission Planning for Multi-UAV Teams. , 2015, , 1447-1490.		44
440	Decoupled Multicamera Sensing for Flexible View Generation. Journal of Sensors, 2016, 2016, 1-13.	0.6	0

#	ARTICLE	IF	CITATIONS
441	Distributed dynamic priority assignment and motion planning for multiple mobile robots with kinodynamic constraints. , 2016, , .		13
443	A task allocation algorithm based on market mechanism for multiple robot systems. , 2016, , .		7
444	Improving task allocation in risk-aware robotic sensor networks via auction protocol selection. , 2016, , .		3
445	Multiple Mobile Robot Systems. Springer Handbooks, 2016, , 1335-1384.	0.3	100
446	Behavior-Based Systems. Springer Handbooks, 2016, , 307-328.	0.3	19
447	A distributed framework for surveillance missions with aerial robots including dynamic assignment of the detected intruders. , 2016, , .		4
448	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes. Lecture Notes in Computer Science, 2016, , 539-555.	1.0	22
449	Auction-based task allocation scheme for dynamic coalition formations in limited robotic swarms with heterogeneous capabilities. , 2016, , .		18
450	Speeding-Up Robot Exploration by Exploiting Background Information. IEEE Robotics and Automation Letters, 2016, 1, 716-723.	3.3	55
451	Coalition formation games for dynamic multirobot tasks. International Journal of Robotics Research, 2016, 35, 514-527.	5.8	17
452	A Hierarchical Auction-Based Mechanism for Real-Time Resource Allocation in Cloud Robotic Systems. IEEE Transactions on Cybernetics, 2016, 47, 1-12.	6.2	46
453	Reliable Communication Protocol for Applications in Multi-Robot Systems. Arabian Journal for Science and Engineering, 2016, 41, 2771-2785.	1.1	2
454	Online Interaction of a Human Supervisor with Multi-Robot Task Allocation. Advances in Intelligent Systems and Computing, 2016, , 965-978.	0.5	1
455	Assistance networks for dynamic multirobot tasks. Autonomous Robots, 2016, 40, 615-630.	3.2	4
456	A novel task optimal allocation approach based on Contract Net Protocol for Agent-oriented UUV swarm system modeling. Optik, 2016, 127, 3928-3933.	1.4	24
457	Punctual versus continuous auction coordination for multi-robot and multi-task topological navigation. Autonomous Robots, 2016, 40, 599-613.	3.2	20
458	Incentives for Mobile Crowd Sensing: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 54-67.	24.8	416
459	A Bio-Inspired Approach to Task Assignment of Swarm Robots in 3-D Dynamic Environments. IEEE Transactions on Cybernetics, 2017, 47, 974-983.	6.2	47

#	ARTICLE	IF	CITATIONS
460	Robust allocation of RF device capacity for distributed spectrum functions. <i>Autonomous Agents and Multi-Agent Systems</i> , 2017, 31, 469-492.	1.3	0
461	Market-Based Task Assignment for Cooperative Timing Missions in Dynamic Environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 87, 97-123.	2.0	43
462	The block-information-sharing strategy for task allocation: A case study for structure assembly with aerial robots. <i>European Journal of Operational Research</i> , 2017, 260, 725-738.	3.5	20
463	Cooperative object transportation using parallel line formation with a circular shift. <i>Robotica</i> , 2017, 35, 1341-1364.	1.3	3
464	Collaborative Multi-MSA Multi-Target Tracking and Surveillance: a Divide & Conquer Method Using Region Allocation Trees. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 87, 471-485.	2.0	18
465	A Distributed Version of the Hungarian Method for Multirobot Assignment. <i>IEEE Transactions on Robotics</i> , 2017, 33, 932-947.	7.3	104
466	Cloud-Supported Coverage Control for Persistent Surveillance Missions. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	5
467	A review on multi-robot systems categorised by application domain. , 2017, , .		50
468	Toward a Possibilistic Swarm Multi-robot Task Allocation: Theoretical and Experimental Results. <i>Neural Processing Letters</i> , 2017, 46, 881-897.	2.0	10
469	Optimized 3D mapping of a large area with structures using multiple multirotors. , 2017, , .		4
470	Decentralized hungarian-based approach for fast and scalable task allocation. , 2017, , .		29
471	Immigrants Based Adaptive Genetic Algorithms for Task Allocation in Multi-Robot Systems. <i>International Journal of Computational Intelligence and Applications</i> , 2017, 16, 1750025.	0.6	22
472	Coverage control with anytime updates for persistent surveillance missions. , 2017, , .		3
473	Gantry Scheduling for Multi-Gantry Production System by Online Task Allocation Method. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 1848-1855.	3.3	9
474	Cyber-Physical System Intelligence. <i>Springer Series in Wireless Technology</i> , 2017, , 447-472.	1.1	6
475	A policy of picking up parcels for express courier service in dynamic environments. <i>International Journal of Production Research</i> , 2017, 55, 2470-2488.	4.9	14
476	Multi-robot task allocation with auctions in harsh communication environments. , 2017, , .		18
477	Multi-AUV cooperative task allocation based on improved contract network. , 2017, , .		11

#	ARTICLE	IF	CITATIONS
478	Algorithm for optimal chance constrained linear assignment. , 2017, , .		14
479	Compression based distributed dynamic task assignment algorithms for heterogeneous multiple unmanned aerial vehicles. , 2017, , .		0
480	Coordinated recharging of mobile robots during exploration. , 2017, , .		17
481	Secure first-price sealed-bid auction scheme. Eurasip Journal on Information Security, 2017, 2017, .	2.4	7
482	Decentralized planning and control for UAVâ€™UGV cooperative teams. Autonomous Robots, 2018, 42, 1601-1618.	3.2	67
483	Failure is Not an Option: Policy Learning for Adaptive Recovery in Space Operations. IEEE Robotics and Automation Letters, 2018, 3, 1639-1646.	3.3	11
484	Resource-based task allocation for multi-robot systems. Robotics and Autonomous Systems, 2018, 103, 151-161.	3.0	65
485	Cooperative Learning-Agents for Task Allocation Problem. Advances in Intelligent Systems and Computing, 2018, , 952-968.	0.5	7
486	Bundling Policies for Sequential Stochastic Tasks in Multi-robot Systems. Springer Proceedings in Advanced Robotics, 2018, , 237-252.	0.9	0
487	Gini coefficient-based task allocation for multi-robot systems with limited energy resources. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 155-168.	8.5	38
488	The Cooperative Hunters â€™ Efficient and Scalable Drones Swarm for Multiple Targets Detection. Studies in Computational Intelligence, 2018, , 187-205.	0.7	2
489	Collaborative online planning for automated victim search in disaster response. Robotics and Autonomous Systems, 2018, 100, 251-266.	3.0	27
490	A Coalition Formation Approach to Coordinated Task Allocation in Heterogeneous UAV Networks. , 2018, , .		21
491	Research on Task Assignment Optimization Algorithm Based on Multi-Agent. , 2018, , .		3
492	Review of Multi-Agent Algorithms for Collective Behavior: a Structural Taxonomy. IFAC-PapersOnLine, 2018, 51, 112-117.	0.5	72
493	Competency adjustment and workload balancing framework in multirobot task allocation. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881296.	1.3	1
494	An Approach for Task Execution in Dynamic Multirobot Environment. Lecture Notes in Computer Science, 2018, , 71-76.	1.0	7
495	A Scalable Multi-Robot Task Allocation Algorithm. , 2018, , .		29

#	ARTICLE	IF	CITATIONS
496	Cooperation Algorithms in Multi-Agent Systems for Dynamic Task Allocation: A Brief Overview. , 2018, , .		6
497	Multi-Robot Coordination Through Mobile Agent. , 2018, , .		1
498	Allocating Multiple Types of Tasks to Heterogeneous Agents Based on the Theory of Comparative Advantage. Journal of Robotics, 2018, 2018, 1-18.	0.6	2
499	Simultaneous Exploration and Harvesting in Multi-robot Foraging. Lecture Notes in Computer Science, 2018, , 496-502.	1.0	3
500	A Modified Distributed Bees Algorithm for Multi-Sensor Task Allocation. Sensors, 2018, 18, 759.	2.1	23
501	Self-organizing flying drones with massive MIMO networking. , 2018, , .		10
502	Evaluating Task-Allocation Strategies for Emergency Repair in MAS. Lecture Notes in Computer Science, 2018, , 253-274.	1.0	4
503	TANSA: Task Allocation Using Nomadic Soft Agents for Multirobot Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 308-318.	3.4	2
504	Distributed inference-based multi-robot exploration. Autonomous Robots, 2018, 42, 1651-1668.	3.2	43
505	Interaction Templates for Multi-Robot Systems. IEEE Robotics and Automation Letters, 2019, 4, 2926-2933.	3.3	5
506	Everybody Needs Somebody Sometimes: Validation of Adaptive Recovery in Robotic Space Operations. IEEE Robotics and Automation Letters, 2019, 4, 1216-1223.	3.3	7
507	A Cross-Landscape Evaluation of Multi-robot Team Performance in Static Task-Allocation Domains. Lecture Notes in Computer Science, 2019, , 261-272.	1.0	1
508	A distributed approach for road clearance with multi-robot in urban search and rescue environment. International Journal of Intelligent Robotics and Applications, 2019, 3, 392-406.	1.6	15
509	Cannot avoid penalty? Letâ€™s minimize. , 2019, , .		5
510	FAâ€™QABCâ€™MRTA: a solution for solving the multi-robot task allocation problem. Intelligent Service Robotics, 2019, 12, 407-418.	1.6	21
511	Improving Computational Efficiency in Crowded Task Allocation Games with Coupled Constraints. Applied Sciences (Switzerland), 2019, 9, 2117.	1.3	5
512	Efficient and QoS-Aware Drone Coordination for Simultaneous Environment Coverage. , 2019, , .		2
513	Cooperative Heterogeneous Multi-Robot Systems. ACM Computing Surveys, 2020, 52, 1-31.	16.1	188

#	ARTICLE	IF	CITATIONS
514	An iterative strategy for task assignment and path planning of distributed multiple unmanned aerial vehicles. <i>Aerospace Science and Technology</i> , 2019, 86, 455-464.	2.5	76
515	Cannot avoid penalty for fluctuating order arrival rate? Let's minimize. , 2019, , .		0
516	Agent-Task Assigantion Based on Target Characteristics for a Swarm of Specialized Agents. , 2019, , .		4
517	YouWasps: Towards Autonomous Multi-Robot Mobile Deposition for Construction. , 2019, , .		12
518	A Coordinated Path Planning Algorithm for Multi-Robot in Intelligent Warehouse. , 2019, , .		10
519	Cluster-Based Hungarian Approach to Task Allocation for Unmanned Aerial Vehicles. , 2019, , .		14
520	Real-time distributed non-myopic task selection for heterogeneous robotic teams. <i>Autonomous Robots</i> , 2019, 43, 789-811.	3.2	9
521	RTRobMultiAxisControl: A Framework for Real-Time Multiaxis and Multirobot Control. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 1205-1217.	3.4	10
522	Multi-Robot Dynamic Task Allocation for Exploration and Destruction. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 98, 455-479.	2.0	34
523	Dust Storm: The cost-saving benefits of a compute cloud on Mars. <i>Acta Astronautica</i> , 2020, 168, 31-36.	1.7	2
524	Automated guided vehicle systems, state-of-the-art control algorithms and techniques. <i>Journal of Manufacturing Systems</i> , 2020, 54, 152-173.	7.6	199
525	Homotopic Approach for Robot Allocation Optimization Coupled With Path Constraints. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 88-95.	3.3	7
526	Contextual and Possibilistic Reasoning for Coalition Formation. <i>AI</i> , 2020, 1, 389-417.	2.1	1
527	Plan distance heuristics for task fusion in distributed temporal continuous planning. <i>Multiagent and Grid Systems</i> , 2020, 16, 171-192.	0.5	0
528	Distributed Task Assignment in Multi-Robot Systems based on Information Utility. , 2020, , .		6
529	Overweight Object Transportation with a Set of Collaborative Robots. , 2020, , .		0
530	A Routing Framework for Heterogeneous Multi-Robot Teams in Exploration Tasks. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 6662-6669.	3.3	15
531	Cooperative control and communication of intelligent swarms: a survey. <i>Control Theory and Technology</i> , 2020, 18, 114-134.	1.0	6

#	ARTICLE	IF	CITATIONS
532	Dynamic Multi-Objective Auction-Based (DYMO-Auction) Task Allocation. Applied Sciences (Switzerland), 2020, 10, 3264.	1.3	13
533	COMBIMA: truthful, budget maintaining, dynamic combinatorial market. Autonomous Agents and Multi-Agent Systems, 2020, 34, 1.	1.3	3
534	Collaborative Mission and Route Planning of Multi-vehicle Systems for Autonomous Search in Marine Environment. International Journal of Control, Automation and Systems, 2020, 18, 546-555.	1.6	10
535	Cooperative Aerial-Ground Multi-Robot System for Automated Construction Tasks. IEEE Robotics and Automation Letters, 2020, 5, 798-805.	3.3	45
536	A Distributed Approach to the Multi-Robot Task Allocation Problem Using the Consensus-Based Bundle Algorithm and Ant Colony System. IEEE Access, 2020, 8, 27479-27494.	2.6	39
537	Distributed Framework for Task Execution with Quantitative Skills. Lecture Notes in Computer Science, 2021, , 413-426.	1.0	0
538	Mission Planning for Shepherding a Swarm of Uninhabited Aerial Vehicles. Unmanned System Technologies, 2021, , 87-114.	0.9	0
539	Task Allocation for Affective Robots Based on Willingness. IEEE Access, 2021, 9, 80028-80042.	2.6	1
540	Distributed Cooperative Search Algorithm With Task Assignment and Receding Horizon Predictive Control for Multiple Unmanned Aerial Vehicles. IEEE Access, 2021, 9, 6122-6136.	2.6	11
541	Towards addressing dynamic multi-agent task allocation in law enforcement. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	1.3	4
542	Coordination of multi-robot path planning for warehouse application using smart approach for identifying destinations. Intelligent Service Robotics, 2021, 14, 313-325.	1.6	15
543	Event-MILP-Based Task Allocation for Heterogeneous Robotic Sensor Network for Thermosolar Plants. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	12
544	Resource-Constrained Scheduling for Multi-Robot Cooperative Three-Dimensional Printing. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	11
545	Multi-Robot Coordination Analysis, Taxonomy, Challenges and Future Scope. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 10.	2.0	53
546	A Multi-Robot Cooperative Searching Algorithm in Unknown Environments based on Neural Network. , 2021, , .		0
547	Decentral task allocation for industrial AGV-systems with resource constraints. Journal of Manufacturing Systems, 2021, 59, 310-319.	7.6	20
548	Multi-robot goal conflict resolution under communication constraints using spatial approximation and strategic caching. Robotics and Autonomous Systems, 2021, 138, 103713.	3.0	2
549	Dynamic Task Allocation in Multi-Robot System Based on a Team Competition Model. Frontiers in Neurorobotics, 2021, 15, 674949.	1.6	1

#	ARTICLE	IF	CITATIONS
550	Decentralized Game-Theoretic Control for Dynamic Task Allocation Problems for Multi-Agent Systems. , 2021, , .		9
551	Human-Aware Reinforcement Learning for Fault Recovery Using Contextual Gaussian Processes. Journal of Aerospace Information Systems, 0, , 1-13.	1.0	2
552	Robot coalition formation against time-extended multi-robot tasks. International Journal of Intelligent Unmanned Systems, 2022, 10, 468-481.	0.6	3
553	A Distributed Approach for Autonomous Cooperative Transportation. , 0, , .		0
554	Smart component-oriented method of construction robot coordination for prefabricated housing. Automation in Construction, 2021, 129, 103778.	4.8	24
555	Online Sequential Task Assignment With Execution Uncertainties for Multiple Robot Manipulators. IEEE Robotics and Automation Letters, 2021, 6, 6993-7000.	3.3	8
556	Multirobot coordination with deep reinforcement learning in complex environments. Expert Systems With Applications, 2021, 180, 115128.	4.4	15
557	An arrovian analysis on the multi-robot task allocation problem: Analyzing a behavior-based architecture. Robotics and Autonomous Systems, 2021, 144, 103839.	3.0	6
558	A Case Study on Auction-Based Task Allocation Algorithms in Multi-Satellite Systems. , 2021, , .		9
559	An Energy-Efficient Communication Scheme for Multi-robot Coordination Deployed for Search and Rescue Operations. Lecture Notes in Networks and Systems, 2021, , 187-199.	0.5	5
560	Distributed Coverage of Unknown/Unstructured Environments by Mobile Sensor Networks. , 2005, , 145-155.		22
561	Parallel Stochastic Hill- Climbing with Small Teams. , 2005, , 65-77.		17
562	Coordinating Dual-Mode Biomimetic Robotic Fish in Box-Pushing Task. Lecture Notes in Computer Science, 2005, , 815-824.	1.0	6
563	Comparative Study of Market-Based and Threshold-Based Task Allocation. , 2006, , 91-101.		47
564	A Distributed Multi-robot Cooperation Framework for Real Time Task Achievement. , 2006, , 187-196.		25
565	Intrusion Detection in Robotic Swarms. Advances in Intelligent Systems and Computing, 2020, , 968-980.	0.5	1
566	Survey on Decentralized Modular Robots and Control Platforms. Lecture Notes in Electrical Engineering, 2015, , 165-175.	0.3	1
567	Manipulating Information Providers Access to Information in Auctions. Lecture Notes in Computer Science, 2014, , 14-25.	1.0	4



#	ARTICLE	IF	CITATIONS
568	Coalition Formation Games for Dynamic Multirobot Tasks. Springer Tracts in Advanced Robotics, 2015, , 37-54.	0.3	1
569	Computing Coalitions in Multiagent Systems: A Contextual Reasoning Approach. Lecture Notes in Computer Science, 2015, , 85-100.	1.0	1
570	Swarming Intelligence of 1-Trailer Systems. Lecture Notes in Electrical Engineering, 2016, , 251-264.	0.3	12
571	Review of Potential Attacks on Robotic Swarms. Lecture Notes in Networks and Systems, 2018, , 628-646.	0.5	6
572	Optimal Dynamic Coverage Infrastructure for Large-Scale Fleets of Reconnaissance UAVs. Studies in Computational Intelligence, 2018, , 207-238.	0.7	9
573	On Role Allocation in RoboCup. Lecture Notes in Computer Science, 2004, , 43-53.	1.0	15
574	A Mechanism of Coalition Formation in the Metaphor of Politics Multiagent Architecture. Lecture Notes in Computer Science, 2003, , 410-422.	1.0	2
575	Social Networks as a Coordination Technique for Multi-Robot Systems. , 2003, , 503-513.		2
576	A Distributed System for Collaboration and Control of UAV Groups: Experiments and Analysis. , 2007, , 139-156.		8
577	Simultaneous Planning and Scheduling for Multi-Autonomous Vehicles. Studies in Computational Intelligence, 2007, , 437-464.	0.7	18
578	Affection Based Multi-robot Team Work. Lecture Notes in Electrical Engineering, 2008, , 355-375.	0.3	5
579	Team, Game, and Negotiation based Intelligent Autonomous UAV Task Allocation for Wide Area Applications. Studies in Computational Intelligence, 2007, , 39-75.	0.7	17
580	Decision Making in Multi-UAVs Systems: Architecture and Algorithms. , 2007, , 15-48.		13
581	A Study of Coordinated Dynamic Market-Based Task Assignment in Massively Multi-Agent Systems. Lecture Notes in Computer Science, 2007, , 43-63.	1.0	1
582	Performance Evaluation of Repeated Auctions for Robust Task Execution. Lecture Notes in Computer Science, 2008, , 317-327.	1.0	4
584	Auction Aggregation Protocols for Wireless Robot-Robot Coordination. Lecture Notes in Computer Science, 2009, , 180-193.	1.0	14
585	Coordinating Heterogeneous Swarms through Minimal Communication among Homogeneous Sub-swarms. Lecture Notes in Computer Science, 2010, , 558-559.	1.0	3
586	A Delegation-Based Architecture for Collaborative Robotics. Lecture Notes in Computer Science, 2011, , 205-247.	1.0	3

#	ARTICLE	IF	CITATIONS
588	Market-Based Dynamic Task Allocation Using Heuristically Accelerated Reinforcement Learning. Lecture Notes in Computer Science, 2011, , 365-376.	1.0	6
589	Complex Task Allocation in Mixed-Initiative Delegation: A UAV Case Study. Lecture Notes in Computer Science, 2012, , 288-303.	1.0	17
590	Lazy Auctions for Multi-robot Collision Avoidance and Motion Control under Uncertainty. Lecture Notes in Computer Science, 2012, , 295-312.	1.0	8
591	Developing a GIS Based Decision Support System for Resource Allocation in Earthquake Search and Rescue Operation. Lecture Notes in Computer Science, 2012, , 275-285.	1.0	6
592	SETh-Link the Distributed Management System for Unmanned Mobile Vehicles. Studies in Computational Intelligence, 2013, , 247-256.	0.7	17
593	Emergent Robot Differentiation for Distributed Multi-Robot Task Allocation. , 2007, , 201-210.		3
594	Experimental Results in Multi-UAV Coordination for Disaster Management and Civil Security Applications. , 2010, , 563-585.		9
595	Auctions for multi-robot task allocation in communication limited environments. Autonomous Robots, 2020, 44, 547-584.	3.2	82
596	A distributed approach for autonomous cooperative transportation in a dynamic multi-robot environment. , 2020, , .		6
597	Flight Conflict Detection Algorithm for UAV and MAV Under the Whole Airspace. Journal of Information and Computational Science, 2014, 11, 2069-2077.	0.1	1
598	Generic, scalable and decentralized fault detection for robot swarms. PLoS ONE, 2017, 12, e0182058.	1.1	38
599	Distributed intelligence: overview of the field and its application in multi-robot systems. Journal of Physical Agents, 2008, 2, 5-14.	0.3	124
600	Auction-Based Multi-Robot Routing. , 0, , .		159
601	Emergent Task Allocation for Mobile Robots. , 0, , .		17
602	Optimal Market-based Multi-Robot Task Allocation via Strategic Pricing. , 0, , .		19
603	Fully Decentralized Task Swaps with Optimized Local Searching. , 0, , .		3
604	Design of Protocols for Task Administration in Collaborative Production Systems. International Journal of Computers, Communications and Control, 2014, 5, 91.	1.2	11
605	Chain: A Dynamic Double Auction Framework for Matching Patient Agents. Journal of Artificial Intelligence Research, 0, 30, 133-179.	7.0	22

#	ARTICLE	IF	CITATIONS
606	ICE: An Expressive Iterative Combinatorial Exchange. Journal of Artificial Intelligence Research, 0, 33, 33-77.	7.0	11
607	Auction-Based Consensus Mechanism for Cooperative Tracking in Multi-Sensor Surveillance Systems. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2010, 14, 13-20.	0.5	6
608	Integrated Decision-Making System for Robot Soccer. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2011, 15, 156-163.	0.5	14
609	Dynamic Partitioning Strategies for Multi-Robot Patrolling Systems. Journal of Robotics and Mechatronics, 2019, 31, 535-545.	0.5	9
611	Cooperative Pollution Supervising and Neutralization with Multi-actuator-sensor Network. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 107-112.	0.3	3
612	Recharging Sensor Nodes Using Implicit Actor Coordination in Wireless Sensor Actor Networks. Wireless Sensor Network, 2010, 02, 123-128.	0.3	14
613	Auction and Swarm Multi-Robot Task Allocation Algorithms in Real Time Scenarios. , 0, , .		9
614	Task Allocation Strategy for Time-Constrained Tasks in Robots Swarms. , 0, , .		6
616	Achieving Multitasking Robots in Multi-Robot Tasks. , 2021, , .		2
617	Decentralized Makespan Minimization for Uniformly Related Agents. , 2021, , .		0
618	Auction like Task Allocation and Motion Coordination Strategies for Multi-Robot Transport Tasks. , 2005, , .		0
620	Visual Coordination of Heterogeneous Mobile Manipulators. Springer Tracts in Advanced Robotics, 2006, , 387-396.	0.3	2
621	Multi-Robot Systems and Distributed Intelligence: The ETHNOS Approach to Heterogeneity. , 0, , .		3
622	INTROSPECTION ON CONTROL-GROUNDED CAPABILITIES - A Task Allocation Study Case in Robot Soccer. , 2007, , .		0
623	Introspection on control-grounded capabilities. Relevance in task allocation problems. , 2007, , .		0
624	Multiple Robots Tasks Allocation: An Auction-Based Approach Using Dynamic-Domain RRT. Communications in Computer and Information Science, 2008, , 795-798.	0.4	0
625	COOPERATIVE MULTI TARGET TRACKING USING MULTI SENSOR NETWORK. International Journal on Smart Sensing and Intelligent Systems, 2008, 1, 716-734.	0.4	4
626	A User Multi-Robot System Interaction Paradigm for a Multi-Robot Mission Editor. , 0, , .		0

#	ARTICLE	IF	CITATIONS
628	The Control Based on Internal Average Kinetic Energy in Complex Environment for Multi-robot System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 607-617.	0.2	0
629	A Method for Distributed Optimization for Task Allocation. , 2009, , .		0
630	Motivation and Context-Based Multi-Robot Architecture for Dynamic Task, Role and Behavior Selections. Lecture Notes in Computer Science, 2009, , 161-170.	1.0	3
631	An Immunity Inspired Real-Time Cooperative Control Framework for Networked Multi-agent Systems. Lecture Notes in Computer Science, 2009, , 234-247.	1.0	4
632	Automation of Mobility and Navigation. , 2009, , 279-294.		2
633	A Behavior Based Architecture with Auction-Based Task Assignment for Multi-robot Industrial Applications. Lecture Notes in Computer Science, 2009, , 372-381.	1.0	4
635	Multi-agent Task Allocation Method Based on Auction. Lecture Notes in Electrical Engineering, 2010, , 217-225.	0.3	1
636	MULTI-ROBOT DECENTRALIZED EXPLORATION USING A TRADE-BASED APPROACH. , 2011, , .		4
637	Cooperative Multi-robot Box Pushing Inspired by Human Behaviour. Lecture Notes in Computer Science, 2011, , 380-381.	1.0	0
638	AUCTION-BASED DYNAMIC CAMERA GROUPING WITH ACTIVE CONTROL. Series in Computer Vision, 2011, , 357-375.	0.1	0
640	Applications of DEC-MDPs in Multi-Robot Systems. , 2012, , 361-384.		0
641	Auction-based Fault-Tolerant Multi-Robot Cooperation. , 2012, , .		0
642	On Mobile Target Allocation with Incomplete Information in Defensive Environments. Lecture Notes in Computer Science, 2012, , 4-13.	1.0	0
643	On the Problem of Task Planning in Multi-robot Systems. , 2012, , .		1
644	Designing the HRTeam Framework: Lessons Learned from a Rough-and-Ready Human/Multi-Robot Team. Lecture Notes in Computer Science, 2012, , 232-251.	1.0	6
645	Biological Cell Inspired Stochastic Models and Control. , 2012, , 145-161.		0
646	Market-Based Framework for Mobile Surveillance Systems. Lecture Notes in Computer Science, 2012, , 69-78.	1.0	1
648	A Closed-Loop Bid Adjustment Method of Dynamic Task Allocation of Robots. Lecture Notes in Electrical Engineering, 2013, , 81-94.	0.3	0

#	ARTICLE	IF	CITATIONS
651	Heuristic Planning for Decentralized MDPs with Sparse Interactions. Springer Tracts in Advanced Robotics, 2013, , 329-343.	0.3	4
652	Repeated Auctions for Reallocation of Tasks with Pickup and Delivery upon Robot Failure. Lecture Notes in Computer Science, 2013, , 461-469.	1.0	2
653	A decentralized algorithm for the preferred assignment problem in multi-agent systems. , 2013, , .		3
656	Strategy-planned Q-learning Approach for Multi-robot Task Allocation. , 2014, , .		0
657	Conditional Random Fields for Behavior Recognition of Autonomous Underwater Vehicles. Springer Tracts in Advanced Robotics, 2014, , 409-421.	0.3	2
658	Task Allocation Framework Incorporated with Effective Resource Management for Robot Team in Search and Attack Mission. Journal of the Korea Institute of Military Science and Technology, 2014, 17, 167-174.	0.1	0
659	A Novel Multi-robot Task Allocation Algorithm under Heterogeneous Capabilities Condition. Information Technology Journal, 2014, 13, 1514-1522.	0.3	0
660	A First Step Toward a Possibilistic Swarm Multi-robot Task Allocation. Lecture Notes in Computer Science, 2015, , 147-158.	1.0	2
661	Abnormality Detection in Robots Exhibiting Composite Swarm Behaviours. , 0, , .		1
662	Policy-Based Distributed Spectrum Allocation. , 2016, , 33-57.		0
663	Harvesting Wireless Sensor Node Data via Swarm Mobile Relays Robots. International Robotics & Automation Journal, 2016, 1, .	0.3	0
664	Distributed multi-agent approach based on priority rules and genetic algorithm for tasks scheduling in multi-robot cells. , 2016, , .		5
665	Token-based Autonomous Task Allocation in Flocking Systems. , 0, , .		0
666	Motion Planning and Simulation of Multiple Welding Robots Based on Genetic Algorithm. Lecture Notes in Computer Science, 2017, , 193-202.	1.0	1
667	An Intersection-Centric Auction-Based Traffic Signal Control Framework. Understanding Complex Systems, 2017, , 121-142.	0.3	6
669	Control system of the inspection robots group applying auctions and multi-criteria analysis for task allocation. , 2017, , .		1
670	EXPERIENCED TASK-BASED MULTI ROBOT TASK ALLOCATION. Anadolu University Journal of Sciences & Technology, 2017, 18, 864-875.	0.2	0
671	Fault Detection and Mutual Coordination in Various Cyborgs. Lecture Notes in Networks and Systems, 2018, , 509-520.	0.5	0

#	ARTICLE	IF	CITATIONS
672	FA-SETPOWER-MRTA: A Solution for Solving the Multi-Robot Task Allocation Problem. IFIP Advances in Information and Communication Technology, 2018, , 317-328.	0.5	5
673	General Background on Multi-robot Task Allocation. Studies in Computational Intelligence, 2018, , 129-144.	0.7	1
674	Coordination of Mobile Agents for Simultaneous Coverage. Lecture Notes in Computer Science, 2019, , 170-185.	1.0	6
675	Analysis on swarm robot coordination using fuzzy logic. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 13, 48.	0.7	4
676	Single-Layer Multi-sensor Task Allocation System. Automation, Collaboration, and E-services, 2020, , 23-47.	0.5	0
678	Hybrid Multi-Robot System for Drilling and Blasting Automation. , 2020, , .		0
679	RONA: A Clustering Decision-Making Framework in Robotics Swarm. , 2020, , .		0
680	Behavior-Based Systems. , 2020, , 1-7.		1
681	Multi-Robot Coalition Formation and Task Allocation Using Immigrant Based Adaptive Genetic Algorithms. Studies in Computational Intelligence, 2020, , 205-225.	0.7	3
682	Applications of DEC-MDPs in Multi-Robot Systems. , 0, , 143-165.		0
686	Utilizing Reconfigurable Hardware to Optimize Workflows in Networked Nodes. , 2007, , 373-386.		0
688	Exogenous Fault Detection in a Collective Robotic Task. , 2007, , 555-564.		3
689	Multi-robot Task Allocation Using Compound Emotion Algorithm. , 2007, , 545-550.		0
690	Bid Prediction for Multi-Robot Exploration with Disrupted Communications. , 2021, , .		1
691	Multi-robot task allocation problem with multiple nonlinear criteria using branch and bound and genetic algorithms. Intelligent Service Robotics, 2021, 14, 707-727.	1.6	26
692	Greedy Decentralized Auction-based Task Allocation for Multi-Agent Systems. IFAC-PapersOnLine, 2021, 54, 675-680.	0.5	8
693	The Pluggable Distributed Resource Allocator (PDRA): a Middleware for Distributed Computing in Mobile Robotic Networks. , 2020, , .		2
694	Assessment of Coordinated Heterogeneous Exploration of Complex Environments. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
696	Formal Specification of Team Formation Protocol. Lecture Notes in Networks and Systems, 2022, , 301-313.	0.5	1
697	Distributed Grouping Cooperative Dynamic Task Assignment Method of UAV Swarm. Applied Sciences (Switzerland), 2022, 12, 2865.	1.3	19
698	Consensus-Based Artificial Potential Field Approach for Swarm. , 2021, , .		2
699	Information sharing in multi-agent search and task allocation problems. , 2021, , .		1
701	Comparing Decentralized Algorithms for Dynamic Task Sharing among Agents with Limited Resources. , 2021, , .		3
702	Multirobot Adaptive Task Allocation of Intelligent Warehouse Based on Evolutionary Strategy. Journal of Sensors, 2022, 2022, 1-9.	0.6	0
703	A Multi-agent System Architecture for Modular Robotic Mobility Aids. , 0, , 15-26.		1
704	Shape Control of Robot Swarms with Multilevel-Based Topology Design. , 0, , 525-557.		0
706	Probability-Tuned Market-Based Allocations for UAV Swarms Under Unreliable Observations. IEEE Transactions on Cybernetics, 2023, 53, 6803-6814.	6.2	6
707	Task allocation in multi-robot system using resource sharing with dynamic threshold approach. PLoS ONE, 2022, 17, e0267982.	1.1	2
708	A cooperative strategy of multi-arm coal gangue sorting robot based on immune dynamic workspace. International Journal of Coal Preparation and Utilization, 2023, 43, 794-814.	1.2	2
709	Equitable Allocation of Operations and Makespan Minimization for Autonomous Agents. IEEE Transactions on Automation Science and Engineering, 2023, 20, 703-717.	3.4	1
710	Multi-Agent Autonomy: Advancements and Challenges in Subterranean Exploration. , 2022, 2, 1068-1104.		10
711	Resilient Robot Teams: a Review Integrating Decentralised Control, Change-Detection, and Learning. Current Robotics Reports, 2022, 3, 85-95.	5.1	4
712	Multi-Agent Pathfinding as a Combinatorial Auction. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	11
713	Mission Planning and Execution in Heterogeneous Teams of Aerial Robots supporting Power Line Inspection Operations. , 2022, , .		8
714	Privacy-Preserving Multi-Robot Task Allocation via Secure Multi-Party Computation. , 2022, , .		3
715	Task Allocation Using a Team of Robots. Current Robotics Reports, 2022, 3, 227-238.	5.1	7

#	ARTICLE	IF	CITATIONS
717	Progress on Agent Coordination with Cooperative Auctions. Proceedings of the AAAI Conference on Artificial Intelligence, 2010, 24, 1713-1717.	3.6	55
718	Evolutionary Utility Prediction Matrix-Based Mission Planning for Unmanned Aerial Vehicles in Complex Urban Environments. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1068-1080.	9.4	17
719	Distributed Task Allocation for a Multi-UAV System with Time Window Constraints. Drones, 2022, 6, 226.	2.7	7
721	Consensus-based fast and energy-efficient multi-robot task allocation. Robotics and Autonomous Systems, 2023, 159, 104270.	3.0	5
722	Performance analysis of bid calculation methods in multirobot market-based task allocation. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	0.9	0
723	Consensus-Based Decentralized Task Allocation for Multi-Agent Systems and Simultaneous Multi-Agent Tasks. IEEE Robotics and Automation Letters, 2022, 7, 12593-12600.	3.3	3
724	Multi-Agent Coordination Using Dynamic Behavior-Based Subsumption. Proceedings, 2010, 6, 132-137.	0.7	3
725	Task Allocation in Multi-robot Systemsâ€™ Resource Welfare. Automation, Collaboration, and E-services, 2023, , 55-67.	0.5	0
726	Search and rescue with sparsely connected swarms. Autonomous Robots, 2023, 47, 849-863.	3.2	4
727	Token-Based Approach for Scalable Team Coordination. , 2008, , 1-26.		0
728	Genetic Algorithm Based Optimization in Solving Multi Robot Task Allocation Problems. , 2022, , .		0
730	Auction-based solution for the ordering problem in robotic self-assembly. , 2023, , .		0
732	RTAW: An Attention Inspired Reinforcement Learning Method for Multi-Robot Task Allocation in Warehouse Environments. , 2023, , .		1
733	Hybrid SUSD-Based Task Allocation for Heterogeneous Multi-Robot Teams. , 2023, , .		1
735	Multi-robot task assignment based on discrete firefly algorithm. , 2022, , .		0
738	Decentralized Market-Based Task Allocation Algorithm for a Fleet of Industrial Mobile Robots. , 2023, , .		0
739	Intelligent Scalable and Fault-Tolerant Coordination Approach for Collective Construction Robots. Lecture Notes in Computer Science, 2023, , 367-378.	1.0	0
740	Demand-Aware Multi-Robot Task Scheduling with Mixed Reality Simulation. , 2023, , .		0



#	ARTICLE	IF	CITATIONS
741	Auction-Based Allocation of Location-Specific Tasks. Lecture Notes in Computer Science, 2024, , 249-260.	1.0	0
742	Game-Theoretical Approach to Multi-Robot Task Allocation Using a Bio-Inspired Optimization Strategy. , 2023, , .		0
744	Machine Learning Across Different Levels of Auction Based Coordination Hierarchies. , 2024, , .		0
745	Task Elimination: Faster Coalition Formation for Overtasked Collectives. , 2023, , .		0