

ALLIANCE: an architecture for fault tolerant multirobot

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Markovian analysis of a heterogeneous system: application to a cooperation task for multiple consumer robots. , 0, , .		5
2	Multi-robot cooperation through the common use of "mechanisms". , 0, , .		2
3	Learning reactive neurocontrollers using simulated annealing for mobile robots. , 0, , .		1
4	Control multiple mobile robots for object caging and manipulation. , 0, , .		12
5	Adaptive Action Selection without Explicit Communication for Multi-Robot Box-Pushing.. Journal of the Robotics Society of Japan, 1999, 17, 818-827.	0.0	6
6	On sensing and control methods for super-mechano colonies. , 0, , .		4
7	A distributed architecture for effective multirobot cooperation in team competitions. , 0, , .		2
8	Working together: centralized command sequence generation for cooperating rovers. , 1999, , .		2
9	Cooperative behaviour in multi-sensor systems. , 0, , .		7
10	Adaptive action selection without explicit communication for multi-robot box-pushing. , 0, , .		13
11	An architecture for distributed cooperative planning in a behaviour-based multi-robot system. Robotics and Autonomous Systems, 1999, 26, 149-174.	3.0	38
12	Adaptive heterogeneous multi-robot teams. Neurocomputing, 1999, 28, 75-92.	3.5	34
13	Navigation of autonomous robots with an intelligent oscillator controller. , 1999, , .		4
14	Toward the automated synthesis of cooperative mobile robot teams. , 1999, , .		10
15	<title>Case study for life-long learning and adaptation in cooperative robot teams</title>. , 1999, , .		7
16	<title>CAMPOUT: a control architecture for multirobot planetary outposts</title>. , 2000, 4196, 221.		43
17	Modeling robot cognitive activity through active mental entities. Robotics and Autonomous Systems, 2000, 30, 325-349.	3.0	6
18	Coupled Oscillator Control of Autonomous Mobile Robots. Autonomous Robots, 2000, 9, 189-198.	3.2	23

#	ARTICLE	IF	CITATIONS
19	Grounded Symbolic Communication between Heterogeneous Cooperating Robots. <i>Autonomous Robots</i> , 2000, 8, 269-292.	3.2	59
20	Title is missing!. <i>Autonomous Robots</i> , 2000, 8, 239-267.	3.2	50
21	Cooperative collision avoidance between multiple mobile robots. <i>Journal of Field Robotics</i> , 2000, 17, 347-363.	0.7	47
22	Synergetic localization for groups of mobile robots. , 0, , .		26
23	Modelling of redundancy in multiple mobile robots. , 2000, , .		4
24	On the coordination of autonomous systems. , 0, , .		2
25	Nomadic routing applications for wireless networking in a team of miniature robots. , 0, , .		4
26	Cross-paradigm analysis of autonomous agent architecture. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2000, 12, 165-189.	1.8	98
27	A multi-robot cooperative task achievement system. , 0, , .		4
28	Current State of the Art in Distributed Autonomous Mobile Robotics. , 2000, , 3-12.		163
29	Reactivity and Deliberation: A Survey on Multi-Robot Systems. <i>Lecture Notes in Computer Science</i> , 2001, , 9-32.	1.0	80
30	First Results in the Coordination of Heterogeneous Robots for Large-Scale Assembly. , 2001, , 323-332.		46
31	Adaptive action selection without explicit communication for multirobot box-pushing. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2001, 31, 398-404.	3.3	67
32	Distributed multi-robot task allocation for emergency handling. , 0, , .		29
33	Multi-agent behavioral control system for a group of mobile robots. , 0, , .		2
34	System architecture for versatile autonomous and teleoperated control of multiple miniature robots. , 0, , .		11
35	Effects of limited bandwidth communications channels on the control of multiple robots. , 0, , .		18
36	A "constrain and move" approach to distributed object manipulation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2001, 17, 157-172.	2.4	62

#	ARTICLE	IF	CITATIONS
37	Fault detection for wheeled mobile robots with parametric uncertainty. , 0, , .		34
38	An architecture supporting loose and close cooperation of distributed autonomous systems. , 0, , .		0
39	Combining deliberation, reactivity, and motivation in the context of a behavior-based robot architecture. , 0, , .		17
40	Mobile robot cooperation in simple environments. , 0, , .		8
41	An architecture for tightly coupled multi-robot cooperation. , 0, , .		67
42	A scalable, distributed algorithm for allocating workers in embedded systems. , 0, , .		20
43	Fault tolerant localization for teams of distributed robots. , 0, , .		12
44	<title>Distributed robotic mapping of extreme environments</title>. , 2001, , .		25
45	Modular Q-learning based multi-agent cooperation for robot soccer. Robotics and Autonomous Systems, 2001, 35, 109-122.	3.0	85
46	Coordination in multi-agent RoboCup teams. Robotics and Autonomous Systems, 2001, 36, 67-86.	3.0	52
47	From insect to Internet: Situated control for networked robot teams. Annals of Mathematics and Artificial Intelligence, 2001, 31, 173-197.	0.9	47
48	Title is missing!. Autonomous Robots, 2001, 11, 149-171.	3.2	143
49	Biologically Inspired Autonomous Rover Control. Autonomous Robots, 2001, 11, 341-346.	3.2	15
50	Learning in behavior-based multi-robot systems: policies, models, and other agents. Cognitive Systems Research, 2001, 2, 81-93.	1.9	71
51	Implementation and evaluation of a reactive multi-robot system. , 0, , .		4
52	Supervisory control of multiple robots based on a real-time strategy game interaction paradigm. , 0, , .		13
53	Evaluating success in autonomous multi-robot teams: experiences from ALLIANCE architecture implementations. Journal of Experimental and Theoretical Artificial Intelligence, 2001, 13, 95-98.	1.8	20
54	Software architecture for modular self-reconfigurable robots. , 0, , .		23

#	ARTICLE	IF	CITATIONS
55	Cooperative localization and control for multi-robot manipulation. , 0, , .		117
56	Collective Complexity out of Individual Simplicity. <i>Artificial Life</i> , 2001, 7, 315-319.	1.0	17
57	Dynamic role assignment for cooperative robots. , 0, , .		91
58	Relation between task-based diversity and efficiency in multi-robot foraging. , 0, , .		0
59	Decentralized autonomous AGV system for material handling. <i>International Journal of Production Research</i> , 2002, 40, 3995-4006.	4.9	47
60	Towards robust teams with many agents. , 2002, , .		13
61	Closed loop navigation for multiple holonomic vehicles. , 0, , .		58
62	A new task redistribution method for fault clearing in multi-agent systems. , 0, , .		2
63	Object closure and manipulation by multiple cooperating mobile robots. , 0, , .		64
64	An efficient coordination architecture for autonomous robot teams. , 0, , .		6
65	Robot systems reliability and safety: a review. <i>Journal of Quality in Maintenance Engineering</i> , 2002, 8, 170-212.	1.0	54
66	A decision-making based approach for fault-handling in multi-agent systems. , 0, , .		6
67	On the development of cooperative behavior-based mobile manipulators. , 2002, , .		2
68	A distributed and optimal motion planning approach for multiple mobile robots. , 0, , .		95
69	A modification of cooperative collision avoidance for multiple mobile robots using the avoidance circle. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2002, 216, 291-299.	0.7	2
70	A Framework and Architecture for Multi-Robot Coordination. <i>International Journal of Robotics Research</i> , 2002, 21, 977-995.	5.8	102
71	Multi-robot task allocation in the light of uncertainty. , 0, , .		10
72	A distributed motion coordination strategy for multiple nonholonomic mobile robots in cooperative hunting operations. , 0, , .		10

#	ARTICLE	IF	CITATIONS
73	Guest editorial advances in multirobot systems. IEEE Transactions on Automation Science and Engineering, 2002, 18, 655-661.	2.4	400
74	Efficiency and robustness of threshold-based distributed allocation algorithms in multi-agent systems. , 2002, , .		65
75	LocoMaid (the locomotion aid) - a distributed architecture for planning and control. , 0, , .		2
76	Sold!: auction methods for multirobot coordination. IEEE Transactions on Automation Science and Engineering, 2002, 18, 758-768.	2.4	746
77	Distributed multirobot localization. IEEE Transactions on Automation Science and Engineering, 2002, 18, 781-795.	2.4	550
78	Coverage control for mobile sensing networks. , 0, , .		148
79	Cooperative transport by multiple mobile robots in unknown static environments associated with real-time task assignment. IEEE Transactions on Automation Science and Engineering, 2002, 18, 769-780.	2.4	116
80	Pusher-watcher: an approach to fault-tolerant tightly-coupled robot coordination. , 0, , .		75
81	Implementation and evaluation of a satisfaction/altruism based architecture for multi-robot systems. , 0, , .		20
82	A cooperative fault tolerance strategy for distributed object lifting robots. , 0, , .		0
83	Performance of a distributed robotic system using shared communications channels. IEEE Transactions on Automation Science and Engineering, 2002, 18, 713-727.	2.4	72
84	Emotion-based control of cooperating heterogeneous mobile robots. IEEE Transactions on Automation Science and Engineering, 2002, 18, 744-757.	2.4	73
85	Neuro-fuzzy based adaptive co-operative mobile robots. , 0, , .		3
86	Sharing control [multiple miniature robots]. IEEE Robotics and Automation Magazine, 2002, 9, 41-48.	2.2	9
87	Distributed Algorithms for Multi-Robot Observation of Multiple Moving Targets. Autonomous Robots, 2002, 12, 231-255.	3.2	191
88	Mathematical Model of Foraging in a Group of Robots: Effect of Interference. Autonomous Robots, 2002, 13, 127-141.	3.2	144
89	Distributed Coordination in Heterogeneous Multi-Robot Systems. Autonomous Robots, 2003, 15, 155-168.	3.2	60
90	Multi-Robot Task Allocation in Uncertain Environments. Autonomous Robots, 2003, 14, 255-263.	3.2	127

#	ARTICLE	IF	CITATIONS
91	Current research in multirobot systems. <i>Artificial Life and Robotics</i> , 2003, 7, 1-5.	0.7	69
92	Grounding inference in distributed multi-robot environments. <i>Robotics and Autonomous Systems</i> , 2003, 43, 121-132.	3.0	3
93	A distributed motion coordination strategy for multiple nonholonomic mobile robots in cooperative hunting operations. <i>Robotics and Autonomous Systems</i> , 2003, 43, 257-282.	3.0	128
94	Resource scheduling and load balancing in distributed robotic control systems. <i>Robotics and Autonomous Systems</i> , 2003, 44, 251-259.	3.0	6
95	LOGUE: an architecture for task and behavior object transmission among multiple autonomous robots. <i>Robotics and Autonomous Systems</i> , 2003, 44, 261-271.	3.0	3
96	Distributed information retrieval and dissemination in swarm-based networks of mobile, autonomous agents. , 0, , .		8
97	An analysis of coordination in Multi-Robot Systems. , 0, , .		3
98	Social control of a group of collaborating multi-robot multi-target tracking agents. , 2003, , .		1
99	A decentralized approach to formation maneuvers. <i>IEEE Transactions on Automation Science and Engineering</i> , 2003, 19, 933-941.	2.4	869
100	Coordinated execution of tasks in a multiagent environment. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2003, 33, 615-620.	3.4	37
101	Solving function distribution and behavior design problem for cooperative object handling by multiple mobile robots. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2003, 33, 537-549.	3.4	46
102	CAMPOUT: a control architecture for tightly coupled coordination of multirobot systems for planetary surface exploration. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2003, 33, 550-559.	3.4	86
103	Performance-based rough terrain navigation for nonholonomic mobile robots. , 0, , .		16
104	Multi-robot task allocation: analyzing the complexity and optimality of key architectures. , 0, , .		112
105	Closed loop navigation for multiple non-holonomic vehicles. , 0, , .		18
106	A framework for coordination in multi-robot systems. , 0, , .		2
107	Analysis of multirobot localization uncertainty propagation. , 0, , .		31
108	Taxonomy of cooperative robotic systems. , 0, , .		5

#	ARTICLE	IF	CITATIONS
109	Application of mobile agents to robust teleoperation of internet robots in nuclear decommissioning. , 0, , .		19
110	A strategy and a fast testing algorithm for object caging by multiple cooperative robots. , 0, , .		16
111	A behavioral architecture for strategy execution in the RoboFlag game. , 0, , .		8
112	Cooperative object caging by using multiple mobile-manipulators. , 0, , .		1
113	Agents for cooperative heterogeneous mobile robotics: A case study. , 0, , .		8
114	Distributed mobile robot application infrastructure. , 0, , .		10
115	Formation constrained multi-robot system in unknown environments. , 0, , .		10
116	Crucial factors affecting cooperative multirobot learning. , 0, , .		3
117	Sensor network-based multi-robot task allocation. , 0, , .		19
118	Avoiding collision logjams through cooperation and conflict propagation. , 0, , .		1
119	Ad-hoc robot wireless communication. , 0, , .		12
120	A prototype infrastructure for distributed robot-agent-person teams. , 2003, , .		84
121	Distributed control architecture for collaborative physical robot agents. , 0, , .		3
122	CC-closure object and object closure margin of object caging by using multiple robots. , 0, , .		2
123	Adaptive division of labor in large-scale minimalist multi-robot systems. , 0, , .		35
124	Incorporation of MATLAB into a distributed behavioral robotics architecture. , 0, , .		4
125	Control a rigid caging formation for cooperative object transportation by multiple mobile robots. , 2004, , .		21
126	A pushing leader based decentralized control method for cooperative object transportation. , 0, , .		15

#	ARTICLE	IF	CITATIONS
127	From Human to Pushing Leader Robot: Leading a Decentralized Multirobot System for Object Handling. , 0, , .		6
128	Real-Time Planning for Multiple Autonomous Vehicles in Dynamic Uncertain Environments. Journal of Aerospace Computing, Information, and Communication, 2004, 1, 580-604.	0.8	88
130	A novel multi-objective multi-constraint genetic algorithms approach for Co-ordinating embedded agents. , 0, , .		1
131	An adaptable controller for autonomous robots operating in unexplored environments. , 0, , .		0
132	Geometric motion planning and formation optimization for a fleet of nonholonomic wheeled mobile robots. , 2004, , .		6
133	Dynamic token generation for constrained tasks in a multi-robot system. , 0, , .		3
134	Determining the fleet size of mobile robots with energy constraints. , 0, , .		7
135	Artist: A behavioral agent architecture with learning capability for robot navigation control. , 0, , .		0
136	Collaboration among a group of self-autonomous mobile robots with diversified personalities - learning others' personalities results in better task efficiency. , 0, , .		1
137	A learning market based layered multi-robot architecture. , 2004, , .		7
138	Robust multirobot coordination in dynamic environments. , 2004, , .		42
139	Automatic synthesis of communication-based coordinated multi-robot systems. , 0, , .		24
140	The artificial ecosystem: a distributed approach to service robotics. , 2004, , .		25
141	Network robotics, a framework for dynamic distributed architectures. , 0, , .		5
142	Increasing the Scout's effectiveness through local sensing and ruggedization. , 2004, , .		14
143	Formation feedback control for multiple spacecraft via virtual structures. IET Control Theory and Applications, 2004, 151, 357-368.	1.7	250
144	Distributed Multi-Robot Assembly/Packaging Algorithms. Intelligent Automation and Soft Computing, 2004, 10, 349-357.	1.6	2
145	Call and response. , 2004, , .		121

#	ARTICLE	IF	CITATIONS
146	A Paradigm for Dynamic Coordination of Multiple Robots. <i>Autonomous Robots</i> , 2004, 17, 7-21.	3.2	54
147	Propagation of Uncertainty in Cooperative Multirobot Localization: Analysis and Experimental Results. <i>Autonomous Robots</i> , 2004, 17, 41-54.	3.2	82
148	Distributed, Physics-Based Control of Swarms of Vehicles. <i>Autonomous Robots</i> , 2004, 17, 137-162.	3.2	305
149	Swarm-Bot: A New Distributed Robotic Concept. <i>Autonomous Robots</i> , 2004, 17, 193-221.	3.2	277
150	Load sharing algorithm for transporting an object by two mobile robots in coordination. , 0, , .		5
151	An evolutionary algorithm for multi-robot unsupervised learning. , 0, , .		2
152	Autonomous UUV control via tunably decentralized algorithms. , 2004, , .		1
153	Engineering intuition for designing multi-robot search and rescue solutions. , 0, , .		2
154	Intelligence in embedded controls - a case study. , 0, , .		2
155	BOAs: backoff adaptive scheme for task allocation with fault tolerance and uncertainty management. , 0, , .		0
156	Distributed cooperative load redistribution for fault tolerance in a team of four object-lifting robots. <i>Advanced Robotics</i> , 2004, 18, 61-81.	1.1	2
157	A distributed tasks allocation scheme in multi-UAV context. , 2004, , .		121
158	System intelligence requires distributed learning. , 0, , .		0
159	Fault tolerance for communication-based multirobot formation. , 0, , .		6
160	Strategies for and Analytical Solutions to Near-Optimal Formation Control of Nonholonomic Mobile Vehicles. , 2004, , .		0
161	Multirobot Systems: A Classification Focused on Coordination. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004, 34, 2015-2028.	5.5	258
162	Preliminary results in sliding autonomy for assembly by coordinated teams. , 0, , .		18
163	Reactive, distributed layered architecture for resource-bounded multi-robot cooperation: application to mobile sensor network coverage. , 2004, , .		2

#	ARTICLE	IF	CITATIONS
164	Designing for system intelligence. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 793-798.	0.4	0
165	Hardware and Software Architecture for Rapid and Safety Use of Robot Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 117-121.	0.4	1
166	Networked Infomechanical Systems (NIMS) for Ambient Intelligence. , 2005, , 83-113.		17
167	A NOVEL MULTI-ROBOT COORDINATION METHOD USING CAPABILITY CATEGORY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 319-324.	0.4	0
168	Robot team control: A geometric approach. Robotics and Autonomous Systems, 2005, 53, 59-71.	3.0	1
169	Probabilistic Road Map sampling strategies for multi-robot motion planning. Robotics and Autonomous Systems, 2005, 53, 244-264.	3.0	42
170	Cooperative multi-robot systems:. Robotics and Autonomous Systems, 2005, 53, 282-311.	3.0	70
171	Reactive navigation of multiple moving agents by collaborative resolution of conflicts. Journal of Field Robotics, 2005, 22, 249-269.	0.7	7
172	A Frame-Based Knowledge Model for Heterogeneous Multi-Robot System. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 846-855.	0.1	6
173	STP: Skills, tactics, and plays for multi-robot control in adversarial environments. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2005, 219, 33-52.	0.7	46
175	Towards flexible teamwork in behavior-based robots. , 2005, , .		15
176	Coordinating multiple rovers with interdependent science objectives. , 2005, , .		14
177	ASyMTRe: Automated Synthesis of Multi-Robot Task Solutions through Software Reconfiguration. , 0, , .		56
178	Application of the Distributed Field Robot Architecture to a Simulated Demining Task. , 0, , .		27
179	Task allocation for event-aware spatiotemporal sampling of environmental variables. , 2005, , .		3
180	Collaborative Exploration for a Group of Self-Interested Robots. , 0, , .		2
181	Construction of heterogeneous multi-robot system based on knowledge model. , 2005, , .		2
182	Combinatorial Bids based Multi-robot Task Allocation Method. , 0, , .		48

#	ARTICLE	IF	CITATIONS
183	Experimental validation of a MATLAB based control architecture for multiple robot outdoor navigation. , 0, , .		1
184	Task Assignment with Dynamic Perception and Constrained Tasks in a Multi-Robot System. , 0, , .		17
185	Cooperative hybrid control of robotic sensors for perimeter detection and tracking. , 0, , .		64
186	A hierarchical framework for cooperative control of multiple bio-mimetic robotic fish. , 2005, , .		0
187	An Adaptive Task Assignment Method for Multiple Mobile Robots via Swarm Intelligence Approach. , 0, , .		7
188	Decentralized approach for multi-robot task allocation problem with uncertain task execution. , 2005, , .		6
189	Superlinear Physical Performances in a SWARM-BOT. Lecture Notes in Computer Science, 2005, , 282-291.	1.0	19
190	Incremental Development of Adaptive Behaviors using Trees of Self-Contained Solutions. Adaptive Behavior, 2005, 13, 243-260.	1.1	1
191	Real Time Optimal Task Allocation in Highly Dynamic Environments. , 2005, , 131.		2
192	Issues in Multi-Robot Coalition Formation. , 2005, , 15-26.		16
193	COBOS: Cooperative backoff adaptive scheme for multirobot task allocation. , 2005, 21, 1168-1178.		54
194	Cooperative Multi-Robot Systems A study of Vision-based 3-D Mapping using Information Theory. , 0, , .		9
195	Deformable caging formation control for cooperative object transportation by multiple mobile robots. , 0, , .		5
196	Cooperative Reinforcement Learning: exploring Communication and Cooperation Problems. , 0, , .		1
197	A New Multi-Robot Self-Determination Cooperation Method Based on Immune Agent Network. , 0, , .		6
198	Social interaction between robots, avatars & humans. , 0, , .		10
199	A Framework for Implementing Intelligence in Embedded Controls. , 0, , .		1
200	Decentral control of a robot-swarm. , 0, , .		1

#	ARTICLE	IF	CITATIONS
201	System of Systems for Space Construction. , 0, , .		9
202	Coalescent multi-robot teaming through ASyMTRe: a formal analysis. , 0, , .		7
203	Checking movable configuration space in C-closure object for object caging and handling. , 2005, , .		0
204	Motion Planning of Cooperative Disk-Pushing for Multiple Biomimetic Robotic Fish. , 0, , .		1
205	Dynamic autonomous agent placement for target tracking based on target motion models. , 0, , .		1
206	Agent-based Application Framework for Multiple Mobile Robots Cooperation. , 0, , .		2
207	Game Theoretic Control for Robot Teams. , 0, , .		28
208	An algorithm for testing object caging condition by multiple mobile robots. , 2005, , .		17
209	Queues and artificial potential trenches for multirobot formations. , 2005, 21, 646-656.		116
210	Task planning and control for a multi-UAV system: architecture and algorithms. , 2005, , .		44
211	Fault Diagnosis and Fault Tolerant Control for Wheeled Mobile Robots under Unknown Environments: A Survey. , 0, , .		34
212	Multi-Robot Task Allocation in Lunar Mission Construction Scenarios. , 0, , .		9
213	Swarm Intelligence " Searchers, Cleaners and Hunters. , 2006, , 93-132.		12
214	Multi-robot coalition formation. , 2006, 22, 637-649.		212
215	Modular software architecture for teams of cooperating, heterogeneous robots. , 2006, , .		7
216	Hybrid Control Architecture of Mobile Robot Based on Subsumption Architecture. , 2006, , .		6
217	Hybrid Behavior Co-evolution and Structure Learning in Behavior-based Systems. , 0, , .		4
218	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

#	ARTICLE	IF	CITATIONS
219	Task allocation for multi-robot teams with self-organizing agents. , 0, , .		1
220	Supervisory control of mobile sensor networks: math formulation, simulation, and implementation. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 806-819.	5.5	42
221	A behavior based layered, hybrid, control architecture for robot/sensor networks. , 0, , .		3
222	Building Multirobot Coalitions Through Automated Task Solution Synthesis. Proceedings of the IEEE, 2006, 94, 1289-1305.	16.4	126
223	Assignment of Dynamically Perceived Tasks by Token Passing in Multirobot Systems. Proceedings of the IEEE, 2006, 94, 1271-1288.	16.4	27
224	Market-Based Collaborations for Autonomous Operations of Unmanned Air Vehicles. , 0, , .		5
225	Cooperative control of multiple robotic fish in a disk-pushing task. , 2006, , .		1
227	Design and Simulation of Multi-robot Logistic System. , 2006, , .		4
228	REUSABLE ARCHITECTURE AND TOOLS FOR TEAMS OF LIGHTWEIGHT HETEROGENEOUS ROBOTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 51-56.	0.4	4
229	CONTROLLING MULTIPLE ROBOTS THROUGH LOCALLY ORIENTED POTENTIAL FIELDS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 89-94.	0.4	2
230	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
231	Multi-agent robot systems as distributed autonomous systems. Advanced Engineering Informatics, 2006, 20, 59-70.	4.0	126
232	Contribution to Human Multi-Robot System Interaction Application to a Multi-Robot Mission Editor. Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 45, 343-368.	2.0	1
233	A control-design-based solution to robotic ecology: Autonomy of achieving cooperative behavior from a high-level astronaut command. Autonomous Robots, 2006, 20, 97-112.	3.2	18
234	A case study of fuzzy-logic-based robot navigation. IEEE Robotics and Automation Magazine, 2006, 13, 93-107.	2.2	13
235	A communication-based multirobot rigid formation control system: design and analysis. International Journal of Modelling, Identification and Control, 2006, 1, 13.	0.2	25
236	Multi-Robot Autonomous Cooperation Integrated with Immune Based Dynamic Task Allocation. , 2006, , .		6
237	Division of labor in a group of robots inspired by ants' foraging behavior. ACM Transactions on Autonomous and Adaptive Systems, 2006, 1, 4-25.	0.4	166

#	ARTICLE	IF	CITATIONS
238	Framework for Teleoperation and Maintenance of an Industrial Robot. Solid State Phenomena, 2006, 113, 313-318.	0.3	2
239	On Grid Distribution Control of Swarm Robots. , 2006, , .		0
240	Research on Optimized Multiple Robots Path Planning and Task Allocation Approach. , 2006, , .		13
241	On foraging strategies for large-scale multi-robot systems. , 2006, , .		50
242	Continuous and Embedded Learning for Multi-Agent Systems. , 2006, , .		4
243	Implicit coordination in robotic teams using learned prediction models. , 0, , .		20
244	Dynamic Object Closure by Multiple Mobile Robots and Random Caging Formation Testing. , 2006, , .		12
245	Behaviors for Physical Cooperation Between Robots for Mobility Improvement: Hardware Results and Use of Dynamics. , 2006, , .		2
246	Adaptive Formation Control for Rovers Traveling over Unknown Terrains. Journal of Guidance, Control, and Dynamics, 2006, 29, 714-724.	1.6	8
247	Distributed collaboration with limited communication using mission state estimates. , 2006, , .		16
248	A cooperative network of reconfigurable stair-climbing robots. , 0, , .		6
249	Market-based Multirobot Coordination for Complex Tasks. International Journal of Robotics Research, 2006, 25, 73-101.	5.8	162
250	Task allocation with a cooperative plan for an emotionally intelligent system of multi-robots. , 2007, , .		9
251	Robots are agents, too!. , 2007, , .		7
252	Recent Research in Cooperative Control of Multivehicle Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 571-583.	0.9	810
253	Matrix-based representation for coordination fault detection. , 2007, , .		3
254	Towards collaborative task and team maintenance. , 2007, , .		10
255	Incremental multi-robot task selection for resource constrained and interrelated tasks. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
256	Integrated Heterogeneous Multi-Robot System for Collaborative Navigation. , 2007, , .		0
257	Integration of Coordination Mechanisms in the BITE Multi-Robot Architecture. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	9
258	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
259	Cooperative Observation of Multiple Moving Targets: an algorithm and its formalization. International Journal of Robotics Research, 2007, 26, 935-953.	5.8	52
260	Multi-Agent Task Allocation for Robot Soccer. Journal of Intelligent Systems, 2007, 16, .	1.2	3
261	Multi-robot belief propagation for distributed robot allocation. , 2007, , .		9
262	Lyapunov Design of Cooperative Control and Its Application to the Consensus Problem. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	11
263	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
264	SENORA: A P2P Service-Oriented Framework for Collaborative Multirobot Sensor Networks. IEEE Sensors Journal, 2007, 7, 658-666.	2.4	18
265	Verification Procedure for Generalized Goal-based Control Programs. , 2007, , .		2
266	Implementing Search-And-Retrieve Tasks by Multiple Heterogeneous Robots. , 2007, , .		0
267	Platform for cooperation of multiple robotic fish — Robofish Water Polo. , 2007, , .		1
268	Distributed Diagnosis in Formations of Mobile Robots. , 2007, 23, 353-369.		95
269	Controlling Swarms of Mobile Robots for Switching between Formations Using Synchronization Concept. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	17
270	Integrated Mission Specification and Task Allocation for Robot Teams - Design and Implementation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	20
271	Behavior generation through interaction in an emotionally intelligent robot system. , 2007, , .		1
272	Profiling Pseudonet Architecture for Coordinating Mobile Robots. , 2007, , .		1
273	Communication-Efficient Dynamic Task Scheduling for Heterogeneous Multi-Robot Systems. , 2007, , .		15

#	ARTICLE	IF	CITATIONS
274	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
275	Cooperation of Multiple Fish-like Microrobots Based on Reinforcement Learning. , 2007, , .		3
276	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
277	A P2P Sensor Framework for Collaborative Robots Manipulation. , 2007, , .		1
278	Multirobot Formations Based on the Queue-Formation Scheme With Limited Communication. , 2007, 23, 1160-1169.		38
279	Cooperative task allocation of multi-robots system in complex environment. , 2007, , .		0
280	Cooperation of heterogeneous, autonomous robots: A case study of humanoid and wheeled robots. , 2007, , .		18
281	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
282	Decentralized Cooperative Object Transportation by Multiple Mobile Robots with a Pushing Leader. , 2007, , 453-462.		14
283	Layered architecture for fault detection and isolation in cooperative mobile robots. , 2007, , .		3
284	On the design of coordination diagnosis algorithms for teams of situated agents. Artificial Intelligence, 2007, 171, 491-513.	3.9	37
285	Knowledge model-based heterogeneous multi-robot system implemented by a software platform. Knowledge-Based Systems, 2007, 20, 310-319.	4.0	13
286	Adaptive task assignment for multiple mobile robots via swarm intelligence approach. Robotics and Autonomous Systems, 2007, 55, 572-588.	3.0	64
287	Adaptive teams of autonomous aerial and ground robots for situational awareness. Journal of Field Robotics, 2007, 24, 991-1014.	3.2	127
288	Robust Leader-follower Formation Control of Mobile Robots Based on a Second Order Kinematics Model. Zidonghua Xuebao/Acta Automatica Sinica, 2007, 33, 947-955.	1.5	34
289	Task-based Hardware Reconfiguration in Mobile Robots Using FPGAs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 49, 111-134.	2.0	17
290	Coalition Formation: From Software Agents to Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 50, 85-118.	2.0	61
291	Spartacus attending the 2005 AAAI conference. Autonomous Robots, 2007, 22, 369-383.	3.2	23

#	ARTICLE	IF	CITATIONS
292	Behaviors for physical cooperation between robots for mobility improvement. <i>Autonomous Robots</i> , 2007, 23, 259-274.	3.2	11
293	Nonlinear formation control of unicycle-type mobile robots. <i>Robotics and Autonomous Systems</i> , 2007, 55, 191-204.	3.0	201
294	A fractal conductivity-based approach to mobile sensor networks in a potential field. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 732-746.	1.5	3
295	An adaptive particle filter for soft fault compensation of mobile robots. <i>Science in China Series F: Information Sciences</i> , 2008, 51, 2033-2046.	1.1	15
296	Improvement of group performance of job distributed mobile robots by an emotionally biased control system. <i>Artificial Life and Robotics</i> , 2008, 12, 245-249.	0.7	11
297	Fault detection in autonomous robots based on fault injection and learning. <i>Autonomous Robots</i> , 2008, 24, 49-67.	3.2	77
298	Development of an artificial fish-like robot and its application in cooperative transportation. <i>Control Engineering Practice</i> , 2008, 16, 569-584.	3.2	55
299	A machine-learning approach to multi-robot coordination. <i>Engineering Applications of Artificial Intelligence</i> , 2008, 21, 470-484.	4.3	67
300	Experimental Testbed for Large Multirobot Teams. <i>IEEE Robotics and Automation Magazine</i> , 2008, 15, 53-61.	2.2	88
301	Behavior-Based Systems. , 2008, , 891-909.		35
302	Multiple Mobile Robot Systems. , 2008, , 921-941.		168
303	What is Networked Robotics?. , 2008, , 35-45.		20
304	An almost communication-less approach to task allocation for multiple Unmanned Aerial Vehicles. , 2008, , .		7
305	A Multiagent Swarming System for Distributed Automatic Target Recognition Using Unmanned Aerial Vehicles. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2008, 38, 549-563.	3.4	95
306	Research of intelligent building control using an agent-based approach. , 2008, , .		3
307	Optimal ant colony algorithm based multi-robot task allocation and processing sequence scheduling. , 2008, , .		5
308	Pattern-Based Planning System (PBPS): A novel approach for uncertain dynamic multi-agent environments. , 2008, , .		2
309	Variable Utility in Multi-robot Task Allocation Systems. , 2008, , .		5

#	ARTICLE	IF	CITATIONS
310	A synchronization control strategy for multiple robot systems using shape regulation technology. , 2008, , .		2
311	Bio-inspired stochastic chance-constrained multi-robot task allocation using WSN. , 2008, , .		0
312	A concept for isles of automation: Ubiquitous robot cell for flexible manufacturing. , 2008, , .		5
313	Autonomous fault tolerant multi-robot cooperation using artificial immune system. , 2008, , .		7
314	Cooperation in a swarm of robots using RFID landmarks. , 2008, , .		2
315	Multi-Robot Task Allocation Using Abandoned-Undertaking Algorithm. , 2008, , .		3
316	Anticipatory robot control for a partially observable environment using episodic memories. , 2008, , .		18
317	Cooperative Cleaners: A Study in Ant Robotics. International Journal of Robotics Research, 2008, 27, 127-151.	5.8	88
318	Rearrangement Task by Multiple Mobile Robots With Efficient Calculation of Task Constraints. Advanced Robotics, 2008, 22, 191-213.	1.1	6
319	Counter-ant algorithm for evolving multirobot collaboration. , 2008, , .		10
320	Multi-agent task allocation. , 2008, , .		6
321	A Multi-agent Architecture Based Cooperation and Intelligent Decision Making Method for Multirobot Systems. Lecture Notes in Computer Science, 2007, , 376-385.	1.0	6
322	A performance sensitive hormone-inspired system for task distribution amongst evolving robots. , 2008, , .		8
323	Task allocation for multi-robot cooperative hunting behavior based on improved auction algorithm. , 2008, , .		11
324	Multi-robot cooperative sensing and localization. , 2008, , .		3
325	An emotion-based task sharing approach for a cooperative multiagent robotic system. , 2008, , .		10
326	Dynamic task allocation method based on immune system for cooperative robots. , 2008, , .		2
327	Multiple humanoid cooperative control system for heterogeneous humanoid team. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
328	Multi-robot Cooperative Task Processing in Great Environment. , 2008, , .		4
329	A synchronous controller for multiple mobile robots in time-varied formations. , 2008, , .		6
330	Notice of Violation of IEEE Publication Principles - Large-scale multi-robot task allocation based on Ant Colony Algorithm. , 2008, , .		0
331	Efficient cooperative search of smart targets using UAV Swarms. Robotica, 2008, 26, 551-557.	1.3	67
332	CSMA/CD-R for a Wireless Multi-robot Commuication. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10391-10396.	0.4	0
333	A RECEDING-HORIZON FORMATION TRACKING CONTROLLER WITH LEADER-FOLLOWER STRATEGIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4400-4405.	0.4	2
334	Multi-agent Architecture Model for Driving Mobile Manipulator Robots. International Journal of Advanced Robotic Systems, 2008, 5, 30.	1.3	14
335	Dynamic Task Allocation in Cooperative Robot Teams. International Journal of Advanced Robotic Systems, 2009, 6, 35.	1.3	4
336	Dynamic Task Allocation in Cooperative Robot Teams. International Journal of Advanced Robotic Systems, 2009, 6, 30.	1.3	7
337	Collaborator: A Nonholonomic Multiagent Team for Tasks in a Dynamic Environment. Journal of Robotics, 2009, 2009, 1-13.	0.6	0
338	A Car Transportation System Using Multiple Robots iCART : 1st Report, The Design and the Control Algorithm of Robots(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2009, 75, 2028-2035.	0.2	3
339	An Embedded Software Architecture for Robot with Variable Structures. , 2009, , .		2
340	Behavioral control for multi-robot perimeter patrol: A Finite State Automata approach. , 2009, , .		67
341	Optimal task assignment for serial-parallel hybrid robots cooperationvia ant colony optimization. , 2009, , .		2
342	Suppressing the Total Costs of Executing Tasks Using Mobile Agents. , 2009, , .		5
343	Using critical junctures and environmentally-dependent information for management of tightly-coupled cooperation in heterogeneous robot teams. , 2009, , .		0
344	Multi-Agent Systems in Control Engineering: A Survey. Journal of Control Science and Engineering, 2009, 2009, 1-12.	0.8	12
345	Networked architecture for multi-robot task reallocation in dynamic environment. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
346	Altruistic task allocation despite unbalanced relationships within Multi-Robot Communities. , 2009, , .		4
347	Navigation of multiple mobile robots using swarm intelligence. , 2009, , .		12
348	Planning to fail — Reliability needs to be considered a priori in multirobot task allocation. , 2009, , .		6
349	A neural network approach to monitoring robot malfunction in multirobot formation control tasks. , 2009, , .		1
350	Multi-robot cooperation using immune network with memory. , 2009, , .		7
351	CoMutaR: A framework for multi-robot coordination and task allocation. , 2009, , .		29
352	SOFTWARE ARCHITECTURE AND TASK DEFINITION OF A MULTIPLE HUMANOID COOPERATIVE CONTROL SYSTEM. International Journal of Humanoid Robotics, 2009, 06, 173-203.	0.6	4
353	Layered Task Allocation in Multi-robot Systems. , 2009, , .		4
354	Diagnosing Coordination Faults in Multi-Agent Systems. Knowledge Engineering Review, 2009, 24, 411-412.	2.1	0
355	Pattern-based planning system for complex environments. , 2009, , .		0
356	Negotiation schemes for multi-agent cooperative search. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2009, 223, 791-813.	0.7	15
357	Quantum evolutionary algorithm for multi-robot coalition formation. , 2009, , .		13
358	From Fireflies to Fault-Tolerant Swarms of Robots. IEEE Transactions on Evolutionary Computation, 2009, 13, 754-766.	7.5	137
359	A representation for coordination fault detection in large-scale multi-agent systems. Annals of Mathematics and Artificial Intelligence, 2009, 56, 153-186.	0.9	1
360	Neural networks-based adaptive bidding with the contract net protocol in multi-robot systems. Applied Intelligence, 2009, 31, 347-362.	3.3	8
361	Fitness functions in evolutionary robotics: A survey and analysis. Robotics and Autonomous Systems, 2009, 57, 345-370.	3.0	203
362	Application of coordinated multi-vehicle formations for snow shoveling on airports. Intelligent Service Robotics, 2009, 2, 205-217.	1.6	14
363	Modeling Aspects of Theory of Mind with Markov Random Fields. International Journal of Social Robotics, 2009, 1, 41-51.	3.1	26

#	ARTICLE	IF	CITATIONS
364	Evaluation of automatic guided vehicle systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2009, 25, 522-528.	6.1	40
365	Formation optimization for a fleet of wheeled mobile robots " A geometric approach. <i>Robotics and Autonomous Systems</i> , 2009, 57, 102-120.	3.0	43
366	Swarm robot synchronization using RFID tags. , 2009, , .		8
367	An extensive review of research in swarm robotics. , 2009, , .		83
368	Survey on Security Challenges for Swarm Robotics. , 2009, , .		56
369	Towards a modular, service-oriented mechatronic system. , 2009, , .		0
370	To add with caution " decreasing a swarm robotics' efficiency by imprudently enhancing the robots' capabilities. , 2009, , .		2
371	Cooperative Q-learning based on maturity of the policy. , 2009, , .		1
372	Simulation of Multi-robot Architectures in Mobile Robotics. , 2009, , .		4
373	Market-based dynamic task allocation in mobile surveillance systems. , 2009, , .		4
374	A policy-based management architecture for mobile collaborative teams. , 2009, , .		6
375	The Matrix-Based Framework: Its Role as a Job-Agent Supervisory Controller. <i>Advanced Robotics</i> , 2009, 23, 1663-1686.	1.1	2
376	Dynamic complex task allocation in multisensor surveillance systems. , 2009, , .		6
377	Control and navigation of formations of car-like robots on a receding horizon. , 2009, , .		20
378	Fuzzy behavioral control for multi-robot border patrol. , 2009, , .		13
379	Optimized task allocation in cooperative robot teams. , 2009, , .		10
380	An Integrated Approach for Achieving Multirobot Task Formations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009, 14, 176-186.	3.7	33
381	A Synchronization Approach to Trajectory Tracking of Multiple Mobile Robots While Maintaining Time-Varying Formations. <i>IEEE Transactions on Robotics</i> , 2009, 25, 1074-1086.	7.3	187

#	ARTICLE	IF	CITATIONS
382	Multi-robot task allocation for fire-disaster response based on reinforcement learning. , 2009, , .		8
383	A swarm of robots using RFID tags for synchronization and cooperation. International Journal of Intelligent Computing and Cybernetics, 2009, 2, 846-869.	1.6	7
384	Planning to fail: using reliability to improve multirobot task allocation. Proceedings of SPIE, 2010, , .	0.8	0
385	Fault tolerant decentralized nonlinear MPC for fleets of unmanned marine vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 348-353.	0.4	2
386	Dynamic Role-assignment of Transfer Cranes in a Container Terminal. Journal of Mechanical Systems for Transportation and Logistics, 2010, 3, 457-468.	0.2	1
387	Multi-robot Coverage Considering Line-of-sight Conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 121-126.	0.4	3
389	A Car Transportation System Using Multiple Coordinated Robots: iCART : 2nd Report, A Distributed Coordination Control Algorithm(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 103-109.	0.2	2
390	Cooperative control through objective achievement. Robotics and Autonomous Systems, 2010, 58, 910-920.	3.0	5
391	Artificial pheromone for path selection by a foraging swarm of robots. Biological Cybernetics, 2010, 103, 339-352.	0.6	63
392	AF-ABLE in the multi agent contest 2009. Annals of Mathematics and Artificial Intelligence, 2010, 59, 389-409.	0.9	2
393	Collective decision-making based on social odometry. Neural Computing and Applications, 2010, 19, 807-823.	3.2	44
394	CSMA/CD with reservations in wireless communication for distributed robot system. International Journal of Control, Automation and Systems, 2010, 8, 583-596.	1.6	0
395	Interaction of Culture-Based Learning and Cooperative Co-Evolution and its Application to Automatic Behavior-Based System Design. IEEE Transactions on Evolutionary Computation, 2010, 14, 23-57.	7.5	25
396	Towards a Society of Robots. IEEE Robotics and Automation Magazine, 2010, 17, 26-36.	2.2	32
397	Agent formations in 3D spaces with communication limitations using an adaptive Q-structure. Robotics and Autonomous Systems, 2010, 58, 333-348.	3.0	5
398	Towards cooperation of heterogeneous, autonomous robots: A case study of humanoid and wheeled robots. Robotics and Autonomous Systems, 2010, 58, 921-929.	3.0	29
399	A Multi-Robot Control Architecture for Fault-Tolerant Sensor-Based Coverage. International Journal of Advanced Robotic Systems, 2010, 7, 4.	1.3	14
400	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

#	ARTICLE	IF	CITATIONS
401	Greedy Algorithm Based Multiple Target Searching for Mobile Robots. Applied Mechanics and Materials, 2010, 44-47, 1335-1339.	0.2	0
402	Resource constrained multirobot task allocation with a leader-follower coalition method. , 2010, , .		3
403	A multiagent architecture for controlling the Palamede satellite. Web Intelligence and Agent Systems, 2010, 8, 269-289.	0.4	5
404	Fuzzy counter-ant for avoiding the stagnation of multirobot exploration. , 2010, , .		1
405	Goal-oriented dependable action selection using probabilistic affordance. , 2010, , .		2
406	The task allocation model based on reputation for the heterogeneous multi-robot collaboration system. , 2010, , .		1
407	Periodic activations of behaviours and emotional adaptation in behaviour-based robotics. Connection Science, 2010, 22, 197-213.	1.8	10
408	Experimental verification and algorithm of a multi-robot cooperative control method. , 2010, , .		16
409	Minimal force jump within human and assistive robot cooperation. , 2010, , .		3
410	A decentralized multi-robot system for intruder detection in security defense. , 2010, , .		12
411	Leader-Follower Formation Control of Multiple Non-holonomic Mobile Robots Incorporating a Receding-horizon Scheme. International Journal of Robotics Research, 2010, 29, 727-747.	5.8	206
412	Market-based task allocation by using assignment problem. , 2010, , .		12
413	Multi-robot task allocation and scheduling based on fish swarm algorithm. , 2010, , .		9
414	JXTA-Overlay P2P Platform and Its Application for Robot Control. , 2010, , .		0
415	An experimental study on leader-follower coalition method for solving multirobot task allocation problems. , 2010, , .		1
416	Follow-the-leader formation marching through a scalable $O(\log^2 n)$ Parallel Architecture.. , 2010, , .		1
417	Collision free formation control for multiple autonomous underwater vehicles. , 2010, , .		3
418	A refined immune systems inspired model for multi-robot herding. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
419	Autonomous cooperation formation for multi-robot. , 2010, , .		0
420	Multi-agent missions planning for mobile manipulators. , 2010, , .		3
421	An online coalition based approach to solving resource constrained multirobot task allocation problem. , 2010, , .		4
422	Application of a JXTA-Overlay P2P Control System for a Biped Walking Robot. , 2010, , .		3
423	Manipulation of an irregularly shaped object by two mobile robots. , 2010, , .		6
424	A Knowledge Sharing P2P System between Robots Using JXTA-Overlay. , 2011, , .		0
425	Towards a Service-Oriented Architecture for Teams of Heterogeneous Autonomous Robots. , 2011, , .		3
426	Biologically inspired robot swarm control for subaqueous environment. , 2011, , .		0
427	Multi-robot cooperative formation for overweight object transportation. , 2011, , .		19
428	Multilevel based topology design and formation control of robot swarms. , 2011, , .		1
429	Results in cooperative control and implicit consensus. International Journal of Control, 2011, 84, 476-495.	1.2	16
430	Distributed Active Objects – A Systemic Approach to Distributed Mobile Applications. , 2011, , .		6
431	Fault detection and isolation in cooperative mobile robots using multilayer architecture and dynamic observers. Robotica, 2011, 29, 555-562.	1.3	24
432	Decentralized task-oriented local group generation for robot swarms. , 2011, , .		1
433	Handling of a large irregularly shaped object by two mobile robots. , 2011, , .		1
434	Adaptive decentralised cooperative vision based simultaneous localization and mapping for multiple UAV. , 2011, , .		2
435	A comparative study of dynamical sequential and global optimal task reallocation methodology for distributed multi-robot system. , 2011, , .		2
436	Dynamical task allocation and reallocation based on body expansion behavior for multi-robot coordination system. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
437	Multi-robot target pursuit: towards an opportunistic control architecture. , 2011, , .		2
438	Multi-Robot Task Allocation Based on Swarm Intelligence. , 0, , .		7
439	Software Agent Systems for Improving Performance of Multi-Robot Groups. Fundamenta Informaticae, 2011, 112, 103-117.	0.3	8
440	An Extension of Particle Swarm Optimization Based on Partial Initialization (The 2nd Report.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 2084-2095.	0.2	0
441	Effectiveness of Optimal Maintenance Strategy in Fault-Tolerant Multi-Robot Systems. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 3312-3324.	0.2	0
442	Multiple-Robot Systems for USAR: Key Design Attributes and Deployment Issues. International Journal of Advanced Robotic Systems, 2011, 8, 12.	1.3	15
443	Predictive Control for Multi-Robot Observation of Multiple Moving Targets Based on Discrete-Continuous Linear Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 257-262.	0.4	16
444	Bisimulation conversion and verification procedure for goal-based control systems. Formal Methods in System Design, 2011, 38, 62-95.	0.9	1
445	Robust Formation Control of Multiple Wheeled Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 62, 547-565.	2.0	33
446	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
447	Complex Task Allocation in Mobile Surveillance Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 33-55.	2.0	34
448	A Generic Framework for Distributed Multirobot Cooperation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 323-358.	2.0	25
449	Multi-agent role allocation: issues, approaches, and multiple perspectives. Autonomous Agents and Multi-Agent Systems, 2011, 22, 317-355.	1.3	59
450	Petri Net Plans. Autonomous Agents and Multi-Agent Systems, 2011, 23, 344-383.	1.3	64
451	Task partitioning in swarms of robots: an adaptive method for strategy selection. Swarm Intelligence, 2011, 5, 283-304.	1.3	49
452	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
453	Runtime models for automatic reorganization of multi-robot systems. , 2011, , .		14
454	A Highly Resilient Framework for Autonomous Robotic Swarm Systems Operating in Unknown, Hostile Environments. , 2011, , .		9

#	ARTICLE	IF	CITATIONS
455	Cooperative visual mapping in a heterogeneous team of mobile robots. , 2011, , .		5
456	Modeling and analysis of check-in procedure by simulation. , 2011, , .		2
457	Control architecture of material handling vehicles. , 2011, , .		0
458	Tightly-coupled multi robot coordination using decentralized supervisory control of Fuzzy Discrete Event Systems. , 2011, , .		2
459	A delegation-based cooperative robotic framework. , 2011, , .		4
460	Multi-robot manipulation and maintenance for fault-tolerant systems. , 2011, , .		1
461	Realization of a Multiple Object Rearrangement Task with Two Multi-Task Functional Robots. Advanced Robotics, 2011, 25, 1365-1383.	1.1	4
462	A Bio-inspired Intelligent Approach to Motion Planning for Mobile Robots. Computer-Aided Design and Applications, 2011, 8, 773-783.	0.4	4
464	Assessing optimal assignment under uncertainty: An interval-based algorithm. International Journal of Robotics Research, 2011, 30, 936-953.	5.8	44
465	Optimal maintenance strategy in fault-tolerant multi-robot systems. , 2011, , .		3
466	A preference-based task allocation framework for multi-robot coordination. , 2011, , .		6
467	Resource constrained multirobot task allocation based on leader-follower coalition methodology. International Journal of Robotics Research, 2011, 30, 1423-1434.	5.8	43
468	Monitoring malfunction in multirobot formation with a neural network detector. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2011, 225, 1163-1172.	0.7	0
469	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
470	IMMUNE-INSPIRED COOPERATIVE MECHANISM WITH REFINED LOW-LEVEL BEHAVIORS FOR MULTI-ROBOT SHEPHERDING. International Journal of Computational Intelligence and Applications, 2012, 11, 1250007.	0.6	8
471	Cooperative manipulation with least number of robots via robust caging. , 2012, , .		12
472	Experimental Evaluation of a Waste Management Robot System. , 2012, , .		0
473	Market-Based Task Allocation in a Multi-robot Surveillance System. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
474	Towards an Ontology for Autonomous Robots. , 2012, , .		22
475	Part dispatching rule-based multi-robot coordination in pick-and-place task. , 2012, , .		5
476	Real-time tracking of moving objects on a water surface. , 2012, , .		12
477	Coordination in a multi-robot surveillance application using Wireless Sensor Networks. , 2012, , .		9
478	Competitive analysis of repeated greedy auction algorithm for online multi-robot task assignment. , 2012, , .		13
479	A model-based fault tolerant control design for nonholonomic mobile robots in formation. Journal of Defense Modeling and Simulation, 2012, 9, 17-31.	1.2	15
480	Motivation-Based Dependable Behavior Selection Using Probabilistic Affordance. Advanced Robotics, 2012, 26, 897-921.	1.1	7
481	Dynamic task allocation in cooperative robot teams. Robotica, 2012, 30, 721-730.	1.3	23
482	Motion Planning Using a Memetic Evolution Algorithm for Swarm Robots. International Journal of Advanced Robotic Systems, 2012, 9, 19.	1.3	13
483	Decision Making as Optimization in Multi-robot Teams. Lecture Notes in Computer Science, 2012, , 35-49.	1.0	15
484	Development of a reduced human user input task allocation method for multiple robots. Robotics and Autonomous Systems, 2012, 60, 1231-1244.	3.0	4
485	A finite-time approach to formation control of multiple mobile robots with terminal sliding mode. International Journal of Systems Science, 2012, 43, 1998-2014.	3.7	57
486	Hybrid dynamic mobile task allocation and reallocation methodology for distributed multi-robot coordination. , 2012, , .		3
487	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
488	Social-welfare based task allocation for multi-robot systems with resource constraints. Computers and Industrial Engineering, 2012, 63, 994-1002.	3.4	23
489	Multiple Robots Formationâ€“A Multiobjective Evolution Approach. Procedia Engineering, 2012, 41, 156-162.	1.2	5
490	Switching Between Formation in a Moving Shape for Multi-Robots via Synchronization Approach. Procedia Engineering, 2012, 41, 678-684.	1.2	1
491	Multiple Nonholonomic Wheeled Mobile Robots Trajectory Tracking While Maintaining Time-Varying Formation via Synchronous Controller. Procedia Engineering, 2012, 41, 1044-1050.	1.2	5

#	ARTICLE	IF	CITATIONS
492	Resource constrained multirobot task allocation with an optimal solution. , 2012, , .		1
493	Distributed multirobot shape control with a multilevel-based topology and market-based auction algorithm. , 2012, , .		1
494	Cooperative dynamic task-allocation through iterative agents' costs permutations. , 2012, , .		0
495	Efficient Allocation of Agent Groups for Complex Tasks in Real Cost Environments. , 2012, , .		0
496	Control architecture for heterogeneous multiple robots with human-in-the-loop. , 2012, , .		4
497	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
498	A review of research in multi-robot systems. , 2012, , .		69
499	A distributed control framework for motion coordination of teams of autonomous agricultural vehicles. Biosystems Engineering, 2012, 113, 284-297.	1.9	24
500	Evolution of neural controllers for robot formation. , 2012, , .		0
501	Switching between formations for multiple mobile robots via synchronous controller. , 2012, , .		7
502	I Have a Robot, and Iâ€™m Not Afraid to Use It!. AI Magazine, 2012, 33, 66.	1.4	0
503	Servicing wireless sensor networks by mobile robots. , 2012, 50, 147-154.		64
504	Adoption of Vehicular Ad Hoc Networking Protocols by Networked Robots. Wireless Personal Communications, 2012, 64, 489-522.	1.8	8
505	A cooperative architecture for target localization using multiple AUVs. Intelligent Service Robotics, 2012, 5, 119-132.	1.6	15
506	Multirobot coordination in pick-and-place tasks on a moving conveyor. Robotics and Computer-Integrated Manufacturing, 2012, 28, 530-538.	6.1	48
507	Autonomous multiple teams establishment for mobile sensor networks by SVMs within a potential field. Measurement: Journal of the International Measurement Confederation, 2012, 45, 971-987.	2.5	1
508	Self-Management Framework for Mobile Autonomous Systems. Journal of Network and Systems Management, 2012, 20, 244-275.	3.3	8
509	Multi-robot task allocation using CNP combines with neural network. Neural Computing and Applications, 2013, 23, 1909-1914.	3.2	11

#	ARTICLE	IF	CITATIONS
510	Multi-robot, dynamic task allocation: a case study. Intelligent Service Robotics, 2013, 6, 137-154.	1.6	5
511	Formation flying control via elliptical virtual structure. , 2013, , .		3
512	A comprehensive taxonomy for multi-robot task allocation. International Journal of Robotics Research, 2013, 32, 1495-1512.	5.8	407
513	Human Interaction With Multiple Remote Robots. Reviews of Human Factors and Ergonomics, 2013, 9, 131-174.	0.5	52
514	A survey on team strategies in robot soccer: team strategies and role description. Artificial Intelligence Review, 2013, 40, 271-304.	9.7	11
515	A fuzzy-based reliability system for knowledge sharing between robots in P2P JXTA-overlay platform. Cluster Computing, 2013, 16, 933-945.	3.5	5
516	Distributed algorithm design for multi-robot generalized task assignment problem. , 2013, , .		10
517	A concurrent approach to robot team learning. , 2013, , .		2
518	Material flow optimisation in flexible manufacturing systems. , 2013, , .		4
519	A survey and analysis of task allocation algorithms in multi-robot systems. , 2013, , .		23
520	Kinodynamic planning and tracking control of biological cell formation with optical tweezers. , 2013, , .		0
521	Study on Fault-Tolerant Method of Mobile Robot Integrated Navigation. Applied Mechanics and Materials, 0, 300-301, 468-474.	0.2	0
522	IQ-ASyMTRe: Forming Executable Coalitions for Tightly Coupled Multirobot Tasks. IEEE Transactions on Robotics, 2013, 29, 400-416.	7.3	34
523	Model Predictive Formation Control Using Branch-and-Bound Compatible With Collision Avoidance Problems. IEEE Transactions on Robotics, 2013, 29, 1308-1317.	7.3	62
524	Flocking Multiple Microparticles With Automatically Controlled Optical Tweezers: Solutions and Experiments. IEEE Transactions on Biomedical Engineering, 2013, 60, 1518-1527.	2.5	47
525	Performance based task assignment in multi-robot patrolling. , 2013, , .		35
526	Mapping and exploration in a hierarchical heterogeneous multi-robot system using limited capability robots. Robotics and Autonomous Systems, 2013, 61, 565-579.	3.0	29
527	Multi-objective optimization for dynamic task allocation in a multi-robot system. Engineering Applications of Artificial Intelligence, 2013, 26, 1458-1468.	4.3	41

#	ARTICLE	IF	CITATIONS
528	Robust navigation control and synchronization of networked robots. , 2013, , .		0
529	Knowledge Interchange in Task-Oriented Architecture: For Space Robot Application. Applied Mechanics and Materials, 0, 303-306, 1774-1781.	0.2	0
530	High-Level Mission Specification and Planning for Collaborative Unmanned Aircraft Systems Using Delegation. Unmanned Systems, 2013, 01, 75-119.	2.7	32
531	Global path planning for autonomous robots using modified visibility-graph. , 2013, , .		6
532	The CHOPIN project: Cooperation between human and rObotic teams in catastrophic incidents. , 2013, , .		17
533	Formation control of multiple robots using constrained motion formulation. , 2013, , .		0
534	Modelling malicious entities in a robotic swarm. , 2013, , .		3
535	Modelling malicious entities in a robotic swarm. , 2013, , .		2
536	Distributed algorithm design for multi-robot task assignment with deadlines for tasks. , 2013, , .		33
537	Cooperative Control of Multi-robots Using Mobile Agents in a Three-Dimensional Environment. , 2013, , .		3
538	Toward a real-time heterogeneous mobile robotic swarm: Robot platform and agent architecture. , 2013, , .		3
539	Task Allocation for a robotic swarm based on an Adaptive Response Threshold Model. , 2013, , .		12
540	Priority-based task allocation in auction-based applications. , 2013, , .		4
541	An Integrated System of Robot, SmartBox and RFID as an Approach for Internet of Things. , 2013, , .		0
542	Multi-UGV multi-destination navigation in coordinate-free and localization-free Wireless Sensor and Actuator Networks. , 2013, , .		2
543	Time-varying formation control for nonholonomic wheeled mobile robots via synchronization. , 2013, , .		0
544	Task apportionment in a rearrangement problem of multiple mobile robots. Advanced Robotics, 2013, 27, 93-107.	1.1	1
545	Formation control of multiple mobile robots utilising synchronisation approach. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 94.	0.1	4

#	ARTICLE	IF	CITATIONS
546	Cooperative gazing behaviors in human multi-robot interaction. <i>Interaction Studies</i> , 2013, 14, 390-418.	0.4	6
547	Hormone-Inspired Behaviour Switching for the Control of Collective Robotic Organisms. <i>Robotics</i> , 2013, 2, 165-184.	2.1	4
548	Modeling of Task Planning for Multirobot System Using Reputation Mechanism. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	0
549	Optimization of Power Utilization in Multimobile Robot Foraging Behavior Inspired by Honeybees System. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	0
550	A new fault tolerance method for field robotics through a self-adaptation architecture. , 2014, , .		3
551	From selfish auctioning to incentivized marketing. <i>Autonomous Robots</i> , 2014, 37, 417-430.	3.2	2
552	An algorithm for cooperative task allocation in scalable, constrained multiple robot systems. <i>Intelligent Service Robotics</i> , 2014, 7, 221-233.	1.6	7
553	Task Distribution Model Based on Robot Capacity in Multi-Robot System. <i>Applied Mechanics and Materials</i> , 2014, 494-495, 1182-1188.	0.2	0
554	Task planning and simulation platform for on-orbit service multi-robot system. , 2014, , .		2
555	ReFrESH: A self-adaptation framework to support fault tolerance in field mobile robots. , 2014, , .		6
556	Multi-robot coalition formation based on credit mechanism. , 2014, , .		1
557	Foraging optimization in swarm robotic systems based on an adaptive response threshold model. <i>Advanced Robotics</i> , 2014, 28, 1343-1356.	1.1	17
558	Autonomous and cooperative multirobot system for multi-object transportation. , 2014, , .		5
559	An alliance generation algorithm based on modified particle swarm optimization for multiple emotional robots pursuit-evader problem. , 2014, , .		4
560	Non-additive multi-objective robot coalition formation. <i>Expert Systems With Applications</i> , 2014, 41, 3736-3747.	4.4	21
561	Trust modeling in multi-robot patrolling. , 2014, , .		26
562	Connectivity preserving task allocation in mobile robotic sensor network. , 2014, , .		8
563	Control of a Group of Mobile Robots Based on Formation Abstraction and Decentralized Locational Optimization. <i>IEEE Transactions on Robotics</i> , 2014, 30, 550-565.	7.3	22

#	ARTICLE	IF	CITATIONS
564	A Region of Interest (ROI) Sharing Protocol for Multirobot Cooperation With Distributed Sensing Based on Semantic Stability. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014, 44, 457-467.	5.9	13
565	Genetically evolved action selection mechanism in a behavior-based system for target tracking. <i>Neurocomputing</i> , 2014, 133, 84-94.	3.5	1
566	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
567	A Hierarchically Structured Collective of Coordinating Mobile Robots Supervised by a Single Human. , 2014, , 1142-1164.		2
568	Review on reliability in pipeline robotic control systems. <i>International Journal of Computer Applications in Technology</i> , 2014, 49, 12.	0.3	7
569	Clustering multiple robots with serialisation. <i>International Journal of Intelligent Information and Database Systems</i> , 2014, 8, 224.	0.3	1
570	Coordination of control in robot teams using game-theoretic learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 1194-1202.	0.4	6
571	Fault-tolerant control for repeat system with sensor fault based on type-D iterative learning method. , 2014, , .		1
572	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
573	Multi-robot task acquisition through sparse coordination. , 2015, , .		1
574	A framework for a fault tolerant multi-robot system. , 2015, , .		0
575	A time-varying saturated synchronous formation controller for nonholonomic mobile robots. , 2015, , .		1
576	Adaptive Multi-Agent Unmanned Aerial Vehicle Systems with a Potential Field based Leader-Follower Formation Control Method. , 2015, , .		0
577	A Waste Management Robot System. <i>International Journal of Distributed Systems and Technologies</i> , 2015, 6, 1-12.	0.6	2
578	Swarm Intelligence in Optimization and Robotics. , 2015, , 1291-1309.		18
579	Multi-Robot Task Allocation Approach Using ROS. , 2015, , .		4
580	Sensor coverage with a heterogeneous fleet of autonomous surface vessels. , 2015, , .		5
581	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

#	ARTICLE	IF	CITATIONS
582	Comparison of time synchronization techniques in a distributed collaborative swarm system. , 2015, , .		6
583	Implicit adaptive multi-robot coordination in dynamic environments. , 2015, , .		10
584	Overcoming Limited Onboard Sensing in Swarm Robotics Through Local Communication. Lecture Notes in Computer Science, 2015, , 201-223.	1.0	6
585	Hybrid dynamical moving task allocation methodology for distributed multi-robot coordination system. , 2015, , .		1
586	Sustainable Safety in Mobile Multi-robot Systems via Collective Adaptation. , 2015, , .		2
587	Planning for decentralized control of multiple robots under uncertainty. , 2015, , .		55
588	The Benefits of Adaptive Behavior and Morphology for Cooperation. , 2015, , .		4
589	An adaptive middleware core for a multi-agent coordination language. , 2015, , .		2
590	Provably-Good Distributed Algorithm for Constrained Multi-Robot Task Assignment for Grouped Tasks. IEEE Transactions on Robotics, 2015, 31, 19-30.	7.3	67
591	Concurrent Markov decision processes for robot team learning. Engineering Applications of Artificial Intelligence, 2015, 39, 223-234.	4.3	14
592	To err is robotic, to tolerate immunological: fault detection in multirobot systems. Bioinspiration and Biomimetics, 2015, 10, 016014.	1.5	30
593	Designing group behavior algorithms for autonomous underwater vehicles in the underwater local heterogeneities survey problem. Automation and Remote Control, 2015, 76, 885-896.	0.4	13
594	PSO-based Distributed Algorithm for Dynamic Task Allocation in a Robotic Swarm. Procedia Computer Science, 2015, 51, 326-335.	1.2	30
595	The TAM: abstracting complex tasks in swarm robotics research. Swarm Intelligence, 2015, 9, 1-22.	1.3	28
596	Distributed Algorithms for Multirobot Task Assignment With Task Deadline Constraints. IEEE Transactions on Automation Science and Engineering, 2015, 12, 876-888.	3.4	71
597	Optimal bid valuation using path finding for multi-robot task allocation. Journal of Intelligent Manufacturing, 2015, 26, 1049-1062.	4.4	19
598	Robust multi-robot coordination in pick-and-place tasks based on part-dispatching rules. Robotics and Autonomous Systems, 2015, 64, 70-83.	3.0	26
599	Classification of Multi-UAV Architectures. , 2015, , 953-975.		33

#	ARTICLE	IF	CITATIONS
600	Understanding the communication complexity of the robotic Darwinian PSO. <i>Robotica</i> , 2015, 33, 157-180.	1.3	4
601	A dynamic navigation for autonomous mobiles robots. <i>Intelligent Decision Technologies</i> , 2016, 10, 81-91.	0.6	5
602	Performance impact of mutation operators of a subpopulation-based genetic algorithm for multi-robot task allocation problems. <i>SpringerPlus</i> , 2016, 5, 1361.	1.2	19
603	Coordinating a heterogeneous robot swarm using Robot Utility-based Task Assignment (RUTA)., 2016, , .		11
604	Policy search for multi-robot coordination under uncertainty. <i>International Journal of Robotics Research</i> , 2016, 35, 1760-1778.	5.8	35
605	A decentralized fault-tolerant weights based algorithm for coordination of swarm robots for a disaster scenario. , 2016, , .		2
606	An adaptive protocol for dynamic allocation of tasks in a multi-robot system. , 2016, , .		2
608	Fault tolerant autonomous robots using mission performance guided resources allocation. , 2016, , .		1
609	MROCS: A new multi-robot communication system based on passive action recognition. <i>Robotics and Autonomous Systems</i> , 2016, 82, 46-60.	3.0	12
610	The Cooperation of Heterogeneous Mobile Robots in Manufacturing Environments using a Robotic Middleware Platform. <i>IFAC-PapersOnLine</i> , 2016, 49, 984-989.	0.5	1
611	Multiple Mobile Robot Systems. <i>Springer Handbooks</i> , 2016, , 1335-1384.	0.3	100
612	Dynamic Task Partitioning for Foraging Robot Swarms. <i>Lecture Notes in Computer Science</i> , 2016, , 113-124.	1.0	11
613	Software architectures for robotic systems: A systematic mapping study. <i>Journal of Systems and Software</i> , 2016, 122, 16-39.	3.3	66
614	Behavior-Based Systems. <i>Springer Handbooks</i> , 2016, , 307-328.	0.3	19
615	Fictitious play for cooperative action selection in robot teams. <i>Engineering Applications of Artificial Intelligence</i> , 2016, 56, 14-29.	4.3	2
616	A distributed architecture for supervision of autonomous multi-robot missions. <i>Autonomous Robots</i> , 2016, 40, 1343-1362.	3.2	18
617	ALLIANCE-ROS: A Software Architecture on ROS for Fault-Tolerant Cooperative Multi-robot Systems. <i>Lecture Notes in Computer Science</i> , 2016, , 233-242.	1.0	11
618	A distributed framework for surveillance missions with aerial robots including dynamic assignment of the detected intruders. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
619	A mobile agent-based coalition formation system for multi-robot systems. , 2016, , .		3
621	A Method Based on Bottleneck-Linear Assignment for Forming Complex Transport Formations. International Journal of Advanced Robotic Systems, 2016, 13, 6.	1.3	3
622	Auction-based task allocation scheme for dynamic coalition formations in limited robotic swarms with heterogeneous capabilities. , 2016, , .		18
623	A Spline-based Flexible Method of Virtual Force Design for Dynamic Motion Planning of Robots. Computer-Aided Design and Applications, 2016, 13, 379-388.	0.4	0
624	Coalition formation games for dynamic multirobot tasks. International Journal of Robotics Research, 2016, 35, 514-527.	5.8	17
625	An Incidental Delivery Based Method for Resolving Multirobot Pairwise Transportation Problems. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1852-1866.	4.7	18
626	Dynamic task allocation for multi-robot search and retrieval tasks. Applied Intelligence, 2016, 45, 383-401.	3.3	42
627	Online Interaction of a Human Supervisor with Multi-Robot Task Allocation. Advances in Intelligent Systems and Computing, 2016, , 965-978.	0.5	1
628	Assistance networks for dynamic multirobot tasks. Autonomous Robots, 2016, 40, 615-630.	3.2	4
629	Effect of Social Structuring in Self-Organizing Systems. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	1.7	13
630	A review of swarm robotics tasks. Neurocomputing, 2016, 172, 292-321.	3.5	303
631	Variable structure robot control systems: The RAPP approach. Robotics and Autonomous Systems, 2017, 94, 226-244.	3.0	22
632	Control sharing in human-robot team interaction. Annual Reviews in Control, 2017, 44, 342-354.	4.4	98
633	A Distributed and Fault Tolerant Robotic Localisation and Mapping in Network Edge. , 2017, , .		1
634	A survey of robotic caging and its applications. Advanced Robotics, 2017, 31, 1071-1085.	1.1	43
636	A review on multi-robot systems categorised by application domain. , 2017, , .		50
637	Cooperative robotic networks for underwater surveillance: an overview. IET Radar, Sonar and Navigation, 2017, 11, 1740-1761.	0.9	104
638	Immigrants Based Adaptive Genetic Algorithms for Task Allocation in Multi-Robot Systems. International Journal of Computational Intelligence and Applications, 2017, 16, 1750025.	0.6	22

#	ARTICLE	IF	CITATIONS
639	Towards a hybrid software architecture and multi-agent approach for autonomous robot software. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771608.	1.3	14
640	Handling interference effects on foraging with bucket brigades. Bioinspiration and Biomimetics, 2017, 12, 066001.	1.5	4
641	A reliability evaluation model of distributed autonomous robotic system architectures. , 2017, , .		2
642	Task-oriented hierarchical control architecture for swarm robotic system. Natural Computing, 2017, 16, 579-596.	1.8	8
643	Advanced approaches for multi-robot coordination in logistic scenarios. Robotics and Autonomous Systems, 2017, 90, 34-44.	3.0	70
644	Formation control design for real swarm robot using fuzzy logic. , 2017, , .		6
645	A market-based task allocation framework for autonomous underwater surveillance networks. , 2017, , .		14
646	Multi-robot task allocation algorithm based on anxiety model and modified contract network protocol. , 2017, , .		7
647	Research status of multi - robot systems task allocation and uncertainty treatment. Journal of Physics: Conference Series, 2017, 887, 012081.	0.3	6
648	Algorithm for optimal chance constrained linear assignment. , 2017, , .		14
649	A software architecture supporting self-adaptation of wireless control networks. , 2017, , .		2
650	Market-based coordination in dynamic environments based on the Hoplites framework. , 2017, , .		7
651	Towards a decentralised mobile robot learning system for indoor environments. , 2017, , .		1
652	An Arrovian view on the multi-robot task allocation problem. , 2017, , .		0
654	Identification of probabilistic approaches and map-based navigation in motion planning for mobile robots. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	5
655	Robot Navigation and Path Planning by Means of Rough Mereology. , 2018, , .		3
656	The Cooperative Hunters â€“ Efficient and Scalable Drones Swarm for Multiple Targets Detection. Studies in Computational Intelligence, 2018, , 187-205.	0.7	2
657	On Ordering Multi-Robot Task Executions within a Cyber Physical System. ACM Transactions on Autonomous and Adaptive Systems, 2017, 12, 1-27.	0.4	14

#	ARTICLE	IF	CITATIONS
658	Efficient Planar Caging Test Using Space Mapping. IEEE Transactions on Automation Science and Engineering, 2018, 15, 278-289.	3.4	22
659	Introduction to Swarm Search. Studies in Computational Intelligence, 2018, , 1-14.	0.7	3
660	A Framework For Autonomous Heterogeneous Robot Teams. , 2018, , .		3
661	Adaptive Give-Up Decisions for a Team of Robots Foraging with Task Partitioning. , 2018, , .		0
662	A Murdoch-Based ROS Package for Multi-robot Task Allocation. , 2018, , .		2
663	Group Robotic Platform Based on Mechanisms of Swarm Intelligence. , 2018, , .		1
664	Fault- Tolerance Support for Mobile Robotic Applications. , 2018, , .		6
665	Casualty-based cooperation in swarm robots. Artificial Life and Robotics, 2018, 23, 645-650.	0.7	4
666	Coupling Robots Behavior by Introducing Reactive Motivational Orientations. , 2018, , .		0
667	Development of Autonomous Networked Robots (ANR) for Surveillance: Conceptual Design and Requirements. , 2018, , .		5
668	A Bio-Inspired Cybersecurity Schemeto Protect a Swarm of Robots. Lecture Notes in Computer Science, 2018, , 318-331.	1.0	0
669	ARGoS based implementation of a multi-robot coordination algorithm. , 2018, , .		0
670	Autonomous Underwater Surveillance Networks: A Task Allocation Framework to Manage Cooperation. , 2018, , .		6
671	Cooperation Strategy of Multi-target Attack in Confrontation Environment for Ballistic Missiles Group. , 2018, , .		0
672	Latency-Aware Task Assignment and Scheduling in Collaborative Cloud Robotic Systems. , 2018, , .		13
673	A distributed approach to robust control of multi-robot systems. Automatica, 2018, 98, 1-13.	3.0	29
674	Multi-Robot Coordination Through Mobile Agent. , 2018, , .		1
675	A Survey of Robotic Caging and Its Applications. Journal of the Robotics Society of Japan, 2018, 36, 316-326.	0.0	2

#	ARTICLE	IF	CITATIONS
676	Cooperation Target Assignment of Missiles Based on Multi-Agent technique and Improved Contract Net Protocol. , 2018, , .		4
677	Bio-Inspired Coalition Formation Algorithms for Multirobot Systems. Journal of Computing and Information Science in Engineering, 2018, 18, .	1.7	9
678	Cooperative Object Transport in Multi-Robot Systems: A Review of the State-of-the-Art. Frontiers in Robotics and AI, 2018, 5, 59.	2.0	137
679	ARIES: An Autonomous Controller For Multirobot Cooperation. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 40-55.	2.3	2
680	Research on the Method of Capturing Task Allocation Based on Energy Balance. Journal of Physics: Conference Series, 2019, 1176, 032021.	0.3	0
681	The Cost of Complexity in Robot Bodies. , 2019, , .		6
682	A Survey and Analysis of Cooperative Multi-Agent Robot Systems: Challenges and Directions. , 0, , .		16
683	Fault Detection and Diagnosis in Multi-Robot Systems: A Survey. Sensors, 2019, 19, 4019.	2.1	37
684	Robust multi-objective multi-humanoid robots task allocation based on novel hybrid metaheuristic algorithm. Applied Intelligence, 2019, 49, 4097-4127.	3.3	24
685	A Distributed Framework for Programming the Artificial Intelligence of Mobile Robots in Smart Manufacturing Systems. , 2019, , .		2
686	DART: Diversity-enhanced Autonomy in Robot Teams. International Journal of Robotics Research, 2019, 38, 1329-1337.	5.8	7
687	Managing safety and mission completion via collective run-time adaptation. Journal of Systems Architecture, 2019, 95, 19-35.	2.5	6
688	Non-linear control of a group of tracked robots. , 2019, , .		0
689	A Novel Algorithm of Cooperative Foraging for Swarm Robot Based on Neural Network*. , 2019, , .		0
690	Long-Term Adaptivity in Distributed Intelligent Systems: Study of ViaBots in a Simulated Environment. Robotics, 2019, 8, 25.	2.1	1
691	An Optimal Algorithm to Solve the Combined Task Allocation and Path Finding Problem. , 2019, , .		18
692	Exposing Off-Nominal Behaviors in Multi-Robot Coordination. , 2019, , .		0
693	Conflict Resolution for Heterogeneous Teams in Communication-limited Environments: A Generous Agent Approach. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
694	Active Replication for Centrally Coordinated Teams of Autonomous Vehicles. , 2019, , .		1
695	Communication Within Multi-FSM Based Robotic Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 787-805.	2.0	15
696	RTRobMultiAxisControl: A Framework for Real-Time Multiaxis and Multirobot Control. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1205-1217.	3.4	10
697	Autonomous task allocation by artificial evolution for robotic swarms in complex tasks. Artificial Life and Robotics, 2019, 24, 127-134.	0.7	16
698	Multirobot Object Transport via Robust Caging. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 270-280.	5.9	29
699	N-learning: An Approach for Learning and Teaching Skills in Multirobot Teams. Robotica, 2020, 38, 48-68.	1.3	3
700	Multi-agent architecture for information retrieval and intelligent monitoring by UAVs in known environments affected by catastrophes. Engineering Applications of Artificial Intelligence, 2020, 87, 103243.	4.3	30
701	Multi-Robot Dynamic Task Allocation for Exploration and Destruction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 98, 455-479.	2.0	34
702	Communication-based and Communication-less approaches for Robust Cooperative Planning in Construction with a Team of UAVs. , 2020, , .		0
703	A Routing Framework for Heterogeneous Multi-Robot Teams in Exploration Tasks. IEEE Robotics and Automation Letters, 2020, 5, 6662-6669.	3.3	15
704	Swarm Robots Search for Multiple Targets. IEEE Access, 2020, , 1-1.	2.6	9
705	Cooperative control and communication of intelligent swarms: a survey. Control Theory and Technology, 2020, 18, 114-134.	1.0	6
706	Task Allocation Into a Foraging Task With a Series of Subtasks in Swarm Robotic System. IEEE Access, 2020, 8, 107549-107561.	2.6	17
707	A Comprehensive Review of Shepherding as a Bio-Inspired Swarm-Robotics Guidance Approach. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 523-537.	3.4	58
708	Multi-objective drone path planning for search and rescue with quality-of-service requirements. Autonomous Robots, 2020, 44, 1183-1198.	3.2	50
709	A novel foraging algorithm for swarm robotics based on virtual pheromones and neural network. Applied Soft Computing Journal, 2020, 90, 106156.	4.1	15
710	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
711	Towards Formal Monitoring of Workpieces in Agile Manufacturing. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
712	Optimization for cooperative task planning of heterogeneous multi-robot systems in an order picking warehouse. <i>Engineering Optimization</i> , 2021, 53, 1715-1732.	1.5	6
713	Task Allocation for Affective Robots Based on Willingness. <i>IEEE Access</i> , 2021, 9, 80028-80042.	2.6	1
714	Evaluating Task-General Resilience Mechanisms in a Multi-robot Team Task. <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 155-166.	0.5	0
715	On the Combination of Game-Theoretic Learning and Multi Model Adaptive Filters. <i>Lecture Notes in Computer Science</i> , 2021, , 73-105.	1.0	0
716	Optimal Algorithm Allocation for Single Robot Cloud Systems. <i>IEEE Transactions on Cloud Computing</i> , 2023, 11, 324-335.	3.1	7
717	Energy-aware task allocation strategy for multi robot system. <i>International Journal of Modelling and Simulation</i> , 2022, 42, 153-167.	2.3	1
718	Swarm Robotics: A Perspective on the Latest Reviewed Concepts and Applications. <i>Sensors</i> , 2021, 21, 2062.	2.1	22
719	Distributed information fusion in tangle networks. <i>Automatica</i> , 2021, 125, 109417.	3.0	1
720	Multi-Robot Coordination Analysis, Taxonomy, Challenges and Future Scope. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 102, 10.	2.0	53
721	Multirobot Confidence and Behavior Modeling: An Evaluation of Semiautonomous Task Performance and Efficiency. <i>Robotics</i> , 2021, 10, 71.	2.1	0
722	A Glimpse into the Methodology of Developing Shell-Based Control Systems for UGVs. , 2021, , .		0
723	Communication optimization for efficient dynamic task allocation in swarm robotics. <i>Applied Soft Computing Journal</i> , 2021, 105, 107297.	4.1	8
724	An efficient transmission algorithm for power grid data suitable for autonomous multi-robot systems. <i>Information Sciences</i> , 2021, 572, 543-557.	4.0	14
725	An arrovian analysis on the multi-robot task allocation problem: Analyzing a behavior-based architecture. <i>Robotics and Autonomous Systems</i> , 2021, 144, 103839.	3.0	6
726	Handling Coordination Failures in Large-Scale Multi-Agent Systems. , 2006, , 273-286.		1
727	A Study of Scalability Properties in Robotic Teams. , 2006, , 27-51.		16
728	Sensor Network-Mediated Multi-Robot Task Allocation. , 2005, , 27-38.		8
729	Communicative Exploration with Robot Packs. <i>Lecture Notes in Computer Science</i> , 2006, , 267-278.	1.0	7

#	ARTICLE	IF	CITATIONS
730	Plan-Based Multi-robot Cooperation. Lecture Notes in Computer Science, 2002, , 1-20.	1.0	9
731	Principled Communication for Dynamic Multi-Robot Task Allocation. , 2001, , 353-362.		41
733	A Distributed Multi-robot Cooperation Framework for Real Time Task Achievement. , 2006, , 187-196.		25
734	Market-Based Multi-robot Coalition Formation. , 2006, , 227-236.		29
735	Multiple Mobile Robot Teams, Path Planning and Motion Coordination in. , 2009, , 5783-5800.		97
736	Dependence of Dynamics of Multi-robot System on Control Architecture. Studies in Systems, Decision and Control, 2020, , 125-132.	0.8	7
737	Mereology in Engineering and Computer Science. , 2014, , 217-291.		9
738	Coalition Formation Games for Dynamic Multirobot Tasks. Springer Tracts in Advanced Robotics, 2015, , 37-54.	0.3	1
739	Review of Potential Attacks on Robotic Swarms. Lecture Notes in Networks and Systems, 2018, , 628-646.	0.5	6
740	Robotic Wireless Sensor Networks. Studies in Systems, Decision and Control, 2019, , 545-595.	0.8	7
741	On Role Allocation in RoboCup. Lecture Notes in Computer Science, 2004, , 43-53.	1.0	15
742	Formation Control of Nonholonomic Mobile Robots Using Graph Theoretical Methods. , 2007, , 369-386.		8
743	Leaderless Cooperative Formation Control of Autonomous Mobile Robots Under Limited Communication Range Constraints. , 2007, , 79-104.		3
744	A Distributed System for Collaboration and Control of UAV Groups: Experiments and Analysis. , 2007, , 139-156.		8
745	Modularity and Mobility of Distributed Control Software for Networked Mobile Robots. , 2007, , 459-484.		5
746	Affection Based Multi-robot Team Work. Lecture Notes in Electrical Engineering, 2008, , 355-375.	0.3	5
747	Improving Situated Agents Adaptability Using Interruption Theory of Emotions. Lecture Notes in Computer Science, 2008, , 301-310.	1.0	6
748	Saving Energy Consumption of Multi-robots Using Higher-Order Mobile Agents. Lecture Notes in Computer Science, 2007, , 549-558.	1.0	28

#	ARTICLE	IF	CITATIONS
749	Decision Making in Multi-UAVs Systems: Architecture and Algorithms. , 2007, , 15-48.		13
750	Altruistic Relationships for Optimizing Task Fulfillment in Robot Communities. , 2009, , 261-270.		7
752	Cooperation in a Heterogeneous Robot Swarm through Spatially Targeted Communication. Lecture Notes in Computer Science, 2010, , 400-407.	1.0	4
753	Coordinating Heterogeneous Swarms through Minimal Communication among Homogeneous Sub-swarms. Lecture Notes in Computer Science, 2010, , 558-559.	1.0	3
756	A Delegation-Based Architecture for Collaborative Robotics. Lecture Notes in Computer Science, 2011, , 205-247.	1.0	3
757	Towards Artificial Evolution of Complex Behaviors Observed in Insect Colonies. Lecture Notes in Computer Science, 2011, , 153-167.	1.0	4
758	Multi-objective Robot Coalition Formation for Non-additive Environments. Lecture Notes in Computer Science, 2011, , 346-355.	1.0	3
759	Evolutionary Algorithms Based on Game Theory and Cellular Automata with Coalitions. Intelligent Systems Reference Library, 2013, , 481-503.	1.0	8
760	SETh-Link the Distributed Management System for Unmanned Mobile Vehicles. Studies in Computational Intelligence, 2013, , 247-256.	0.7	17
761	Synchronized Control of Mechanical Systems: AÂTutorial. Lecture Notes in Control and Information Sciences, 2014, , 1-25.	0.6	1
763	A Decentralized Test Algorithm for Object Closure by Multiple Cooperating Mobile Robots. , 2002, , 165-174.		13
764	Principled Monitoring of Distributed Agents for Detection of Coordination Failure. , 2002, , 319-328.		5
765	Artificial Emotion and Social Robotics. , 2000, , 121-130.		24
766	Distributed Multi-Robot Localization. , 2000, , 179-188.		62
768	Experimental Results in Multi-UAV Coordination for Disaster Management and Civil Security Applications. , 2010, , 563-585.		9
769	An Improved Algorithm for Constrained Multirobot Task Allocation in Cooperative Robot Tasks. Lecture Notes in Electrical Engineering, 2011, , 455-466.	0.3	1
770	A Layered Architecture for Coordination of Mobile Robots. , 2002, , 103-112.		33
771	Mission-Relevant Collaborative Observation and Localization. , 2002, , 31-40.		3

#	ARTICLE	IF	CITATIONS
772	Auctions for multi-robot task allocation in communication limited environments. <i>Autonomous Robots</i> , 2020, 44, 547-584.	3.2	82
773	Generic, scalable and decentralized fault detection for robot swarms. <i>PLoS ONE</i> , 2017, 12, e0182058.	1.1	38
774	Distributed intelligence: overview of the field and its application in multi-robot systems. <i>Journal of Physical Agents</i> , 2008, 2, 5-14.	0.3	124
775	Emergent Task Allocation for Mobile Robots. , 0, , .		17
776	Optimal Market-based Multi-Robot Task Allocation via Strategic Pricing. , 0, , .		19
777	Formation Control of Mobile Robots. <i>International Journal of Computers, Communications and Control</i> , 2014, 1, 41.	1.2	11
778	PIM: A Novel Architecture for Coordinating Behavior of Distributed Systems. <i>AI Magazine</i> , 2010, 31, 9.	1.4	8
779	Modeling and Planning with Macro-Actions in Decentralized POMDPs. <i>Journal of Artificial Intelligence Research</i> , 2019, 64, 817-859.	7.0	34
780	Incorporating Motivation in a Hybrid Robot Architecture. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2004, 8, 269-274.	0.5	26
781	Integrated Decision-Making System for Robot Soccer. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2011, 15, 156-163.	0.5	14
786	Multirobot Team Work with Benevolent Characters. , 2009, , 57-73.		1
787	Affective Goal and Task Selection for Social Robots. , 2009, , 74-87.		20
788	Emotion Generation Based on a Mismatch Theory of Emotions for Situated Agents. , 2009, , 247-266.		3
789	Autonomous Fault Tolerant Multi-Robot Coordination for Object Transportation Based on Artificial Immune System. , 2009, , .		4
790	Multi-robot Task Allocation Based on Ant Colony Algorithm. <i>Journal of Computers</i> , 2012, 7, .	0.4	38
791	An Evolutionary Traveling Salesman Approach for Multi-Robot Task Allocation. , 2017, , .		9
793	Command and Control Systems for Search and Rescue Robots. , 0, , .		2
794	Multi-agent Robot Systems. <i>Journal of the Robotics Society of Japan</i> , 2002, 20, 487-490.	0.0	5

#	ARTICLE	IF	CITATIONS
795	Evolving Error Tolerance in Biologically-Inspired iAnt Robots. , 0, , .		5
797	Task-Space Decomposed Motion Planning Framework for Multi-Robot Loco-Manipulation. , 2021, , .		5
798	Multi-Robot Task Allocation Games in Dynamically Changing Environments. , 2021, , .		9
799	Spatial Intention Maps for Multi-Agent Mobile Manipulation. , 2021, , .		9
800	Multi-Robot Preemptive Task Scheduling with Fault Recovery: A Novel Approach to Automatic Logistics of Smart Factories. Sensors, 2021, 21, 6536.	2.1	6
801	Cooperative Transport by Multiple Mobile Robots Associated with Task-assignment. IEEJ Transactions on Electronics, Information and Systems, 2000, 120, 634-640.	0.1	1
802	Verteilte Steuerung heterogener mobiler Roboter. Informatik Aktuell, 2000, , 270-277.	0.4	1
804	Designing an Architecture for Adjustably Autonomous Robot Teams. Lecture Notes in Computer Science, 2001, , 335-338.	1.0	2
805	Programming and Controlling the Operations of a Team of Miniature Robots. , 2002, , 65-72.		0
806	Coordination of Heterogeneous Robots for Large-Scale Assembly. , 2002, , 379-390.		3
807	Space AI and Roboticsâ€™ Robotic Colonies. , 2003, , 397-401.		1
808	The Artificial Ecosystem: A Multiagent Architecture. Lecture Notes in Computer Science, 2003, , 52-59.	1.0	0
809	A Multiagent, Distributed Approach to Service Robotics. Lecture Notes in Computer Science, 2003, , 1419-1426.	1.0	0
810	Multi-Layered Mobile Sensor Network With Robot Team. , 2005, , .		0
811	The Design of a Pair of Identical Mobile Robots to Investigate Cooperative Behaviours. , 0, , .		2
812	Why Autonomous Robotics and Artificial Intelligence?-One Researcher's Perspective-. Journal of the Robotics Society of Japan, 2006, 24, 582-584.	0.0	0
813	A Hybrid, Teleo-Reactive Architecture for Robot Control. , 2006, , .		3
814	Cooperative Action Control Based on Evaluating Objective Achievements. Lecture Notes in Computer Science, 2006, , 208-218.	1.0	3

#	ARTICLE	IF	CITATIONS
815	Ergodic Dynamics for Large-Scale Distributed Robot Systems. Lecture Notes in Computer Science, 2006, , 254-266.	1.0	3
816	A NOVEL HYBRID NAVIGATION SCHEME FOR RECONFIGURABLE MULTI-AGENT TEAMS. International Journal of Robotics and Automation, 2006, 21, .	0.1	1
817	PHYSICAL ROBOT AGENTS: COORDINATED INTELLIGENT AND RATIONAL AGENTS FOR COLLABORATIVE ROBOTS. International Journal of Robotics and Automation, 2006, 21, .	0.1	1
818	Improving the Robustness of Instance-Based Reinforcement Learning for Multi-Robot Systems. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1150-1157.	0.1	0
819	Grid Technologies for Intelligent Autonomous Robot Swarms. , 0, , .		0
820	Multi-Robot Systems and Distributed Intelligence: The ETHNOS Approach to Heterogeneity. , 0, , .		3
821	Acromovi Architecture: A Framework for the Development of Multirobot Applications. , 0, , .		1
822	A Hybrid Dynamic Task Allocation Approach for a Heterogeneous Multi-Robot System. , 2007, , .		0
823	Multi Robotic Conflict Resolution by Cooperative Velocity and Direction Control. , 0, , .		1
824	COOPERATIVE ROBOTIC SYSTEM USING DISTRIBUTED DECISION MECHANISMS WITH DELIBERATIVE CENTRAL SUPERVISOR. , 2007, , .		0
825	Self-Organizing Multirobot Exploration through Counter-Ant Algorithm. Lecture Notes in Computer Science, 2008, , 133-144.	1.0	6
826	A User Multi-Robot System Interaction Paradigm for a Multi-Robot Mission Editor. , 0, , .		0
827	Path Planning for Formations of Mobile Robots using PSO Technique. , 0, , .		0
828	Task-Based Flocking Algorithm for Mobile Robot Cooperation. Communications in Computer and Information Science, 2009, , 310-321.	0.4	0
829	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
830	Distributed Controls of Multiple Robotic Systems, An Optimization Approach. , 2009, , 2053-2072.		0
831	Automation of Mobility and Navigation. , 2009, , 279-294.		2
832	Playing Creative Soccer: Randomized Behavioral Kinodynamic Planning of Robot Tactics. Lecture Notes in Computer Science, 2009, , 414-425.	1.0	2

#	ARTICLE	IF	CITATIONS
833	Fuzzy Navigation and Obstacle Avoidance Control for Docking of Modular Robots. Journal of Korean Institute of Intelligent Systems, 2009, 19, 470-477.	0.0	3
834	Comparative Study of Self-organizing Robotic Systems Regarding Basic Architecture. IFIP Advances in Information and Communication Technology, 2010, , 179-186.	0.5	0
835	Autonomous Behavior Integration System with Parallel Evaluating Monitors for Humanoid Robots. Journal of the Robotics Society of Japan, 2010, 28, 85-94.	0.0	1
837	Architecture, Abstractions, and Algorithms for Controlling Large Teams of Robots: Experimental Testbed and Results. Springer Tracts in Advanced Robotics, 2010, , 409-419.	0.3	8
838	Context Discovery in Mobile Environments: A Particle Swarm Optimization Approach. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 160-175.	0.2	2
839	Multi-Robot Cooperative Sensin and Localization. , 0, , .		0
840	A Concept for Isles of Automation. , 0, , .		0
841	Fault-Tolerant Multi-Robot Operational Strategy for Material Transport Systems Considering Maintenance Activity. Journal of Robotics and Mechatronics, 2010, 22, 485-495.	0.5	4
842	Research on Multi-Robot Architecture and Decision-Making Model. , 0, , .		1
843	Robot Teams and Robot Team Players. , 0, , .		0
844	Reasoning by Rough Mereology in Problems of Behavioral Robotics. Intelligent Systems Reference Library, 2011, , 297-318.	1.0	0
845	A Control Agent Architecture for Cooperative Robotic Tasks. , 0, , .		3
846	Modular Behavior Controller for Underwater Robot Teams: A Biologically Inspired Concept for Advanced Tasks. Lecture Notes in Computer Science, 2011, , 536-547.	1.0	0
847	Population-Based Learning Algorithm to Solving Permutation Scheduling Problems. Communications in Computer and Information Science, 2011, , 202-207.	0.4	0
848	Exploiting Reusable Organizations to Reduce Complexity in Multiagent System Design. Lecture Notes in Computer Science, 2011, , 3-17.	1.0	3
849	A Study on Hybrid Wheeled and Legged Mobile Robot with Docking Mechanism. Journal of Korean Institute of Intelligent Systems, 2011, 21, 692-697.	0.0	2
850	Synchronizing Multi-robots in Switching between Different Formations Tasks While Tracking a Line. Communications in Computer and Information Science, 2012, , 28-36.	0.4	1
851	Auction-based Fault-Tolerant Multi-Robot Cooperation. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
852	An AIS-based optimal control framework for longevity and task achievement of multi-robot systems. Numerical Algebra, Control and Optimization, 2012, 2, 45-56.	1.0	0
853	Obstacle Avoidance Algorithm of Hybrid Wheeled and Legged Mobile Robot Based on Low-Power Walking. Journal of Korean Institute of Intelligent Systems, 2012, 22, 448-453.	0.0	2
854	Asynchronous Behavior Control Algorithm of the Swarm Robot for Surrounding Intruders. Journal of Institute of Control, Robotics and Systems, 2012, 18, 812-818.	0.1	7
855	Automatic Mutual Localization of Swarm Robot Using a Particle Filter. Journal of Information and Communication Convergence Engineering, 2012, 10, 390-395.	0.2	0
856	Endocrine Control for Task Distribution among Heterogeneous Robots. Springer Tracts in Advanced Robotics, 2013, , 459-472.	0.3	0
857	Robot Control Architectures: A Survey. Lecture Notes in Electrical Engineering, 2013, , 863-871.	0.3	0
858	Heuristic Planning for Decentralized MDPs with Sparse Interactions. Springer Tracts in Advanced Robotics, 2013, , 329-343.	0.3	4
859	Indoor Surveillance Application using Wireless Robots and Sensor Networks. Advances in Computational Intelligence and Robotics Book Series, 2013, , 19-57.	0.4	1
860	A Hierarchically Structured Collective of Coordinating Mobile Robots Supervised by a Single Human. Advances in Computational Intelligence and Robotics Book Series, 2013, , 162-185.	0.4	2
861	Reliability and Fault Tolerance in Collective Robot Systems. , 2013, , 191-228.		6
862	Performing Collective Tasks with Flagellated Bacteria Acting as Natural and Hybrid Microrobots. , 2013, , 797-822.		0
863	Integration of Heterogeneous Systems as Multi-Agent Systems. Journal of Systems Integration, 0, , 14-31.	2.2	0
864	A Novel Multi-robot Task Allocation Algorithm under Heterogeneous Capabilities Condition. Information Technology Journal, 2014, 13, 1514-1522.	0.3	0
865	Brief Review on Formation Control of Swarm Robot. Proceeding of the Electrical Engineering Computer Science and Informatics, 2017, 2, .	0.0	2
866	Abnormality Detection in Robots Exhibiting Composite Swarm Behaviours. , 0, , .		1
867	Motion-Based Learning. Human-computer Interaction Series, 2016, , 151-173.	0.4	0
868	Distributed Algorithm for Robotic Network Self-deployment in Indoor Environments Using Wireless Signal Strength. Advances in Intelligent Systems and Computing, 2016, , 1491-1502.	0.5	1
869	The Research about Collaboration Techniques for Aerial and Ground Mobile Robots. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
870	Fault Tolerant Automated Task Execution in a Multi-robot System. Studies in Computational Intelligence, 2016, , 101-107.	0.7	0
871	A FIPA-Based Communication Infrastructure for a Reconfigurable Multi-robot System. Advances in Intelligent Systems and Computing, 2016, , 665-676.	0.5	0
872	Cooperative gazing behaviors in human multi-robot interaction. Contemporary Discourses of Hate and Radicalism Across Space and Genres, 0, , 71-98.	0.0	0
873	A General Purpose Network-Oriented Fault-Diagnose Control Architecture for MMR. International Journal of Control and Automation, 2016, 9, , 209-214.	0.3	0
874	GSDf: A Generic Development Framework for Swarm Robotics. Lecture Notes in Computer Science, 2017, , 659-670.	1.0	1
875	Control system of the inspection robots group applying auctions and multi-criteria analysis for task allocation. , 2017, , .		1
876	Fault Detection and Mutual Coordination in Various Cyborgs. Lecture Notes in Networks and Systems, 2018, , 509-520.	0.5	0
877	A Requirements Definition Framework for the Robotic Systems Domain - An Exploratory Study. , 0, , .		1
878	General Background on Multi-robot Task Allocation. Studies in Computational Intelligence, 2018, , 129-144.	0.7	1
879	Refining Two Robots Task Execution Through Tuning Behavior Trajectory and Balancing the Communication. Journal of Robotics and Mechatronics, 2018, 30, 613-623.	0.5	1
881	Synthesis of Nonlinear Control Law of a Group of Tracked Robots. , 2019, , .		0
882	DART: Diversity-Enhanced Autonomy in Robot Teams. Springer Proceedings in Advanced Robotics, 2020, , 9-16.	0.9	0
883	Byzantine fault tolerance for centrally coordinated missions with unmanned vehicles. , 2020, , .		1
884	Multiple Aerial Systems, Cooperation of. , 2020, , 1-11.		0
885	Generosity-Based Schedule Deconfliction in Communication-Limited Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	0
886	Hybrid Multi-Robot System for Drilling and Blasting Automation. , 2020, , .		0
887	Dynamic Task Allocation for Robotic Network Cloud Systems. , 2020, , .		3
888	The Application of Multi-agent Robotic Systems for Earthquake Rescue. Studies in Systems, Decision and Control, 2020, , 133-146.	0.8	12

#	ARTICLE	IF	CITATIONS
889	An Estimation of Distributed Algorithms of the Fault-Tolerant Management in the Robot Groups. Lecture Notes in Computer Science, 2020, , 212-221.	1.0	1
890	Multi-agent Control of Industrial Robot Vacuum Cleaners. Lecture Notes in Computer Science, 2020, , 87-99.	1.0	1
891	Multi-robot energy-aware coverage control in the presence of time-varying importance regions. IFAC-PapersOnLine, 2020, 53, 9676-9681.	0.5	4
892	Distributed Methods for Autonomous Robot Groups Fault-Tolerant Management. Lecture Notes in Computer Science, 2020, , 135-147.	1.0	1
893	Behavior-Based Systems. , 2020, , 1-7.		1
894	AN ADVICE MECHANISM FOR HETEROGENEOUS ROBOT TEAMS. International Journal of Robotics and Automation, 2020, 35, .	0.1	0
895	Cooperative Control with Higher Order Consensus for Geometric Configuration of Multiple UAVs Flying in Formation. , 2021, , .		0
896	Indoor Surveillance Application using Wireless Robots and Sensor Networks. , 0, , 838-875.		0
897	Cooperative Control Method Using Evaluation Information on Objective Achievement. , 2007, , 211-220.		5
898	Task Assignment with Dynamic Token Generation. , 2005, , 467-477.		1
900	Exogenous Fault Detection in a Collective Robotic Task. , 2007, , 555-564.		3
901	Multi-robot Task Allocation Using Compound Emotion Algorithm. , 2007, , 545-550.		0
903	Experimental Analyses of an Efficient Aggregated Robot Processing with Cache-Control for Multi-Robot System. , 2020, , .		2
904	Intelligent Automatic Guided Vehicles. Advances in Civil and Industrial Engineering Book Series, 0, , 1-17.	0.2	1
905	Multi-Level Control System for an Intelligent Robot that is Part of a Group. Mekhatronika, Avtomatizatsiya, Upravlenie, 2021, 22, 610-615.	0.2	1
906	Multi-Robot Routing Problem with Minâ€“Max Objective. Robotics, 2021, 10, 122.	2.1	6
907	Hierarchical Needs Based Self-Adaptive Framework For Cooperative Multi-Robot System. , 2020, , .		6
908	Augmented Reality User Interfaces for Heterogeneous Multirobot Control. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
909	Nonholonomic Cooperative Manipulation in the Plane using Linear Complementarity Formulation. , 2021, , .		0
911	DNN Intellectual Property Extraction Using Composite Data. Entropy, 2022, 24, 349.	1.1	2
912	Decentralized Triangular Guidance Algorithms for Formations of UAVs. Drones, 2022, 6, 7.	2.7	7
913	An Overview of Swarm Robotics for Search and Rescue Applications. Advances in Computational Intelligence and Robotics Book Series, 0, , 345-382.	0.4	6
914	Multirobot Adaptive Task Allocation of Intelligent Warehouse Based on Evolutionary Strategy. Journal of Sensors, 2022, 2022, 1-9.	0.6	0
915	A Multi-agent System Architecture for Modular Robotic Mobility Aids. , 0, , 15-26.		1
918	Flexible and Hybrid Action Selection Process for the Control of Highly Dynamic Multi-Robot Systems. Advances in Computational Intelligence and Robotics Book Series, 0, , 565-595.	0.4	0
919	Fault Tolerant Control of Nonholonomic Mobile Robot Formations. Advances in Civil and Industrial Engineering Book Series, 0, , 50-83.	0.2	1
920	Shape Control of Robot Swarms with Multilevel-Based Topology Design. , 0, , 525-557.		0
921	Opportunistic Model for Multi-Robot Coordination. , 0, , 1092-1140.		0
922	Security in Swarm Robotics. , 0, , 2212-2239.		1
924	Optimal algorithm allocation for robotic network cloud systems. Robotics and Autonomous Systems, 2022, 154, 104144.	3.0	5
926	Deterministic annealing with Potts neurons for multi-robot routing. Intelligent Service Robotics, 2022, 15, 321-334.	1.6	2
927	Matrix-based representation for coordination fault detection. , 2007, , .		0
929	Fault-Tolerant formation keeping design for Multi-AUVs in MOOS-IvP. , 2022, , .		0
930	Resilient Robot Teams: a Review Integrating Decentralised Control, Change-Detection, and Learning. Current Robotics Reports, 2022, 3, 85-95.	5.1	4
931	Energy Autonomy for Robot Systems With Constrained Resources. IEEE Transactions on Robotics, 2022, , 1-19.	7.3	1
932	A Critical Review of Communications in Multi-robot Systems. Current Robotics Reports, 2022, 3, 213-225.	5.1	20

#	ARTICLE	IF	CITATIONS
933	Task Allocation Using a Team of Robots. <i>Current Robotics Reports</i> , 2022, 3, 227-238.	5.1	7
934	A Survey of Space Robotic Technologies for On-Orbit Assembly. <i>Space: Science & Technology</i> , 2022, ,	1.0	9
935	Tube 3D Quench Forming Technology. <i>Springer Tracts in Mechanical Engineering</i> , 2022, , 227-266.	0.1	0
936	Improving makespan in dynamic task scheduling for cloud robotic systems with time window constraints. <i>Cluster Computing</i> , 2023, 26, 2027-2045.	3.5	3
938	A review on flexibility of free bending forming technology for manufacturing thin-walled complex-shaped metallic tubes. <i>International Journal of Lightweight Materials and Manufacture</i> , 2023, 6, 165-188.	1.3	8
939	Task allocation for Multi-AUV system: A review. <i>Ocean Engineering</i> , 2022, 266, 112911.	1.9	8
940	Flocks, Mobs, and Figure Eights: Swarming as a Lemniscatic Arch. <i>IEEE Transactions on Network Science and Engineering</i> , 2023, 10, 675-686.	4.1	0
941	A study of error diversity in robotic swarms for task partitioning in foraging tasks. <i>Frontiers in Robotics and AI</i> , 0, 9, .	2.0	2
942	Some Key Explorations in Planetary Rover Autonomy for ISRU Roles on the Moon. , 2023, , .		0
943	Path Planning and Control for Modular Self-assembling Robots on Rough Terrain. , 2022, , .		0
944	Multi-robot Task Assignment Algorithm for Medical Service System. , 2022, , .		1
945	A Formation Control Algorithm for Air-Ground Cooperative UAV. , 2022, , .		0
946	REALMS: Resilient exploration and lunar mapping system. <i>Frontiers in Robotics and AI</i> , 0, 10, .	2.0	2
947	Static Algorithm Allocation with Duplication in Robotic Network Cloud Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2023, , 1-11.	4.0	0
952	Resilient Multi-Agent Collaborative Spacecraft Inspection. , 2023, , .		0
953	Hybrid SUSD-Based Task Allocation for Heterogeneous Multi-Robot Teams. , 2023, , .		1
959	Decentralized Market-Based Task Allocation Algorithm for a Fleet of Industrial Mobile Robots. , 2023, , .		0
960	Intelligent Scalable and Fault-Tolerant Coordination Approach for Collective Construction Robots. <i>Lecture Notes in Computer Science</i> , 2023, , 367-378.	1.0	0

#	ARTICLE	IF	CITATIONS
961	A Multi-Robot Allocation Scheme for Coverage Control Applications with Multiple Areas of Interest. , 2023, , .		0
963	Risk-Tolerant Task Allocation and Scheduling in Heterogeneous Multi-Robot Teams. , 2023, , .		0
965	An improved Actor-based programming framework for simultaneous management of multiple heterogeneous robot swarms. , 2023, , .		0
966	Payoff Mechanism Design for Coordination in Multi-Agent Task Allocation Games. , 2023, , .		0