

# Kostas J Kyriakopoulos

## List of Publications by Citations

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256  
papers

4,722  
citations

30  
h-index

60  
g-index

284  
ext. papers

5,817  
ext. citations

3.2  
avg. IF

6.05  
L-index

#	Paper	IF	Citations
256	On the Rendezvous Problem for Multiple Nonholonomic Agents. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 916-922	5.9	317
255	Leader-follower cooperative attitude control of multiple rigid bodies. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 429-435	2.4	241
254	Event-triggered control for discrete-time systems <b>2010</b> ,		192
253	A feedback stabilization and collision avoidance scheme for multiple independent non-point agents. <i>Automatica</i> , <b>2006</b> , 42, 229-243	5.7	192
252	Nonholonomic navigation and control of cooperating mobile manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2003</b> , 19, 53-64		186
251	EMG-Based Control of a Robot Arm Using Low-Dimensional Embeddings. <i>IEEE Transactions on Robotics</i> , <b>2010</b> , 26, 393-398	6.5	168
250	Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. <i>Physics of Life Reviews</i> , <b>2016</b> , 17, 1-23	2.1	139
249	. <i>IEEE Transactions on Robotics</i> , <b>2008</b> , 24, 1213-1223	6.5	136
248	An EMG-based robot control scheme robust to time-varying EMG signal features. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 582-8		134
247	A connection between formation infeasibility and velocity alignment in kinematic multi-agent systems. <i>Automatica</i> , <b>2008</b> , 44, 2648-2654	5.7	127
246	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 429-440	4.8	108
245	A switching regime model for the EMG-based control of a robot arm. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 53-63		99
244	A Leader-based Containment Control Strategy for Multiple Unicycles <b>2006</b> ,		69
243	A biomimetic approach to inverse kinematics for a redundant robot arm. <i>Autonomous Robots</i> , <b>2010</b> , 29, 293-308	3	66
242	Backstepping for nonsmooth systems. <i>Automatica</i> , <b>2003</b> , 39, 1259-1265	5.7	57
241	Novel event-triggered strategies for Model Predictive Controllers <b>2011</b> ,		56
240	Navigation of Multiple Kinematically Constrained Robots <b>2008</b> , 24, 221-231		55

239	UAV State Estimation Using Adaptive Complementary Filters. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1214-1226	4.8	53
238	Open-source, anthropomorphic, underactuated robot hands with a selectively lockable differential mechanism: Towards affordable prostheses <b>2015</b> ,		45
237	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>1991</b> , 21, 777-789		44
236	Robust Distributed Control Protocols for Large Vehicular Platoons With Prescribed Transient and Steady-State Performance. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 299-304	4.8	43
235	A learning scheme for reach to grasp movements: on EMG-based interfaces using task specific motion decoding models. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2013</b> , 17, 915-21	7.2	41
234	Learning human reach-to-grasp strategies: Towards EMG-based control of robotic arm-hand systems <b>2012</b> ,		37
233	Viability control for a class of underactuated systems. <i>Automatica</i> , <b>2013</b> , 49, 17-29	5.7	36
232	3D navigation and collision avoidance for nonholonomic aircraft-like vehicles. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2010</b> , 24, 900-920	2.8	36
231	Dynamic positioning for an underactuated marine vehicle using hybrid control. <i>International Journal of Control</i> , <b>2014</b> , 87, 264-280	1.5	34
230	Simultaneous localization and map building for mobile robot navigation. <i>IEEE Robotics and Automation Magazine</i> , <b>1999</b> , 6, 42-53	3.4	33
229	Robust Trajectory Tracking Control for Small-Scale Unmanned Helicopters With Model Uncertainties. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 2010-2021	4.8	32
228	Kinematic analysis and position/force control of the Anthrobot dextrous hand. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>1997</b> , 27, 95-104		32
227	Mobile manipulator modeling with Kane's approach. <i>Robotica</i> , <b>2001</b> , 19, 675-690	2.1	31
226	Open-source, affordable, modular, light-weight, underactuated robot hands <b>2014</b> ,		30
225	Quantifying anthropomorphism of robot hands <b>2013</b> ,		30
224	Decentralized Navigation Functions for Multiple Robotic Agents with Limited Sensing Capabilities. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2007</b> , 48, 411-433	2.9	30
223	Modeling of multiple mobile manipulators handling a common deformable object. <i>Journal of Field Robotics</i> , <b>1998</b> , 15, 599-623		29
222	Decentralized motion control of multiple holonomic agents under input constraints		28

221	Human arm impedance: Characterization and modeling in 3D space <b>2010</b> ,		27
220	EMG-based teleoperation of a robot arm using low-dimensional representation <b>2007</b> ,		27
219	A Robust Predictive Control Approach for Underwater Robotic Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2352-2363	4.8	27
218	Event-Triggered Strategies for Decentralized Model Predictive Controllers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 10068-10073		26
217	EMG-based position and force control of a robot arm: Application to teleoperation and orthosis <b>2007</b> ,		26
216	Cooperative manipulation exploiting only implicit communication <b>2015</b> ,		25
215	Decentralized multi-agent control from local LTL specifications <b>2012</b> ,		25
214	Functional Anthropomorphism for human to robot motion mapping <b>2012</b> ,		25
213	A robust interaction control approach for underwater vehicle manipulator systems. <i>Annual Reviews in Control</i> , <b>2018</b> , 46, 315-325	10.3	24
212	Toward persistent autonomous intervention in a subsea panel. <i>Autonomous Robots</i> , <b>2016</b> , 40, 1279-1306;		23
211	3D navigation and collision avoidance for a non-holonomic vehicle <b>2008</b> ,		22
210	Modeling, full identification and control of the mitsubishi PA-10 robot arm <b>2007</b> ,		22
209	EMG-Based Position and Force Estimates in Coupled Human-Robot Systems: Towards EMG-Controlled Exoskeletons. <i>Springer Tracts in Advanced Robotics</i> , <b>2009</b> , 241-250	0.5	22
208	Quadrotor landing on an inclined platform of a moving ground vehicle <b>2015</b> ,		21
207	Mechanical design, modelling and control of a novel aerial manipulator <b>2015</b> ,		21
206	Model Predictive Control for the navigation of a nonholonomic vehicle with field-of-view constraints <b>2013</b> ,		21
205	Adjustable navigation functions for unknown sphere worlds <b>2011</b> ,		21
204	Simultaneous localization and map building of skid-steered robots. <i>IEEE Robotics and Automation Magazine</i> , <b>2007</b> , 14, 79-89	3.4	21

203	Teleoperation of a robot manipulator using EMG signals and a position tracker <b>2005</b> ,		21
202	Decentralized Platooning With Obstacle Avoidance for Car-Like Vehicles With Limited Sensing. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 835-840	4.2	20
201	Inverse Agreement Protocols With Application to Distributed Multi-Agent Dispersion. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 657-663	5.9	20
200	An integrated collision prediction and avoidance scheme for mobile robots in non-stationary environments. <i>Automatica</i> , <b>1993</b> , 29, 309-322	5.7	20
199	Persistent autonomy: the challenges of the PANDORA project. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 268-273		19
198	Robust Image-Based Visual Servoing With Prescribed Performance Under Field of View Constraints. <i>IEEE Transactions on Robotics</i> , <b>2019</b> , 35, 1063-1070	6.5	18
197	A self-triggered visual servoing model predictive control scheme for under-actuated underwater robotic vehicles <b>2014</b> ,		18
196	A self-triggered Model Predictive Control framework for the cooperation of distributed nonholonomic agents <b>2013</b> ,		18
195	EMG-based teleoperation of a robot arm in planar catching movements using ARMAX model and trajectory monitoring techniques		18
194	Formation Control and Collision Avoidance for Multi-Agent Systems and a Connection between Formation Infeasibility and Flocking Behavior		18
193	Advanced agricultural robots: kinematics and dynamics of multiple mobile manipulators handling non-rigid material. <i>Computers and Electronics in Agriculture</i> , <b>2001</b> , 31, 91-105	6.5	18
192	Stabilization of non-holonomic vehicles under kinematic constraints. <i>International Journal of Control</i> , <b>1995</b> , 61, 933-947	1.5	18
191	Multi-robot multiple hypothesis tracking for pedestrian tracking. <i>Autonomous Robots</i> , <b>2012</b> , 32, 63-79	3	17
190	Self-triggered Model Predictive Control for nonholonomic systems <b>2013</b> ,		17
189	Towards semi-autonomous operation of under-actuated underwater vehicles: sensor fusion, on-line identification and visual servo control. <i>Autonomous Robots</i> , <b>2011</b> , 31, 67-86	3	17
188	Distributed cooperative control and collision avoidance for multiple kinematic agents <b>2006</b> ,		17
187	Minimum jerk for trajectory planning and control. <i>Robotica</i> , <b>1994</b> , 12, 109-113	2.1	17
186	Decentralized and Prioritized Navigation and Collision Avoidance for Multiple Mobile Robots. <i>Springer Tracts in Advanced Robotics</i> , <b>2013</b> , 189-202	0.5	16

185	Event-based model Predictive control for the cooperation of distributed agents <b>2012</b> ,		16
184	Automated Planning of Motion Tasks for Multi-Robot Systems		16
183	A feedback control scheme for multiple independent dynamic non-point agents. <i>International Journal of Control</i> , <b>2006</b> , 79, 1613-1623	1.5	16
182	Fault tolerant control for omni-directional mobile platforms with 4 mecanum wheels <b>2016</b> ,		15
181	Connectivity preserving distributed swarm aggregation for multiple kinematic agents <b>2007</b> ,		15
180	. <i>IEEE Journal of Oceanic Engineering</i> , <b>2019</b> , 44, 642-663	3.3	14
179	Learning task-specific models for reach to grasp movements: Towards EMG-based teleoperation of robotic arm-hand systems <b>2012</b> ,		14
178	Control of multiple non-holonomic air vehicles under wind uncertainty using Model Predictive Control and decentralized navigation functions <b>2008</b> ,		14
177	A connection between formation control and flocking behavior in nonholonomic multiagent systems		14
176	Localization of an underwater vehicle using an IMU and a laser-based vision system <b>2007</b> ,		14
175	Task-specific grasp selection for underactuated hands <b>2014</b> ,		13
174	Robust model-free formation control with prescribed performance and connectivity maintenance for nonlinear multi-agent systems <b>2014</b> ,		13
173	Completely decentralised navigation of multiple unicycle agents with prioritisation and fault tolerance <b>2010</b> ,		13
172	Control of nonholonomic systems using reference vector fields <b>2011</b> ,		13
171	A feedback-based multiagent navigation framework. <i>International Journal of Systems Science</i> , <b>2006</b> , 37, 377-384	2.3	13
170	Locally Computable Navigation Functions for Sphere Worlds. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		13
169	Target-referenced Localization of an Underwater Vehicle using a Laser-based Vision System <b>2006</b> ,		13
168	Sensor-based self-localization for wheeled mobile robots. <i>Journal of Field Robotics</i> , <b>1995</b> , 12, 163-176		13

167	A distributed control and parameter estimation protocol with prescribed performance for homogeneous lagrangian multi-agent systems. <i>Autonomous Robots</i> , <b>2018</b> , 42, 1525-1541	3	12
166	<b>2013</b> ,		12
165	Totally distributed motion control of sphere world multi-agent systems using decentralized navigation functions		12
164	Task discrimination from myoelectric activity: a learning scheme for EMG-based interfaces. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2013</b> , 2013, 6650366	1.3	11
163	Robust model free control of robotic manipulators with prescribed transient and steady state performance <b>2014</b> ,		11
162	On-line identification of autonomous underwater vehicles through global derivative-free optimization <b>2013</b> ,		11
161	Discontinuous backstepping for stabilization of nonholonomic mobile robots		11
160	Cooperative Impedance Control for Multiple Underwater Vehicle Manipulator Systems Under Lean Communication. <i>IEEE Journal of Oceanic Engineering</i> , <b>2021</b> , 46, 447-465	3.3	11
159	A Self-triggered Position Based Visual Servoing Model Predictive Control Scheme for Underwater Robotic Vehicles. <i>Machines</i> , <b>2020</b> , 8, 33	2.9	10
158	Prescribed Time Scale Robot Navigation. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 1191-1198	4.2	10
157	Towards a synergy framework across neuroscience and robotics: Lessons learned and open questions. Reply to comments on: "Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands". <i>Physics of Life Reviews</i> , <b>2016</b> , 17, 54-60	2.1	10
156	Model based actuator fault diagnosis for a mobile robot <b>2014</b> ,		10
155	A viability approach for the stabilization of an underactuated underwater vehicle in the presence of current disturbances <b>2009</b> ,		10
154	Visual servo control of an underwater vehicle using a Laser Vision System <b>2008</b> ,		10
153	Robot Navigation in Complex Workspaces Using Harmonic Maps <b>2018</b> ,		10
152	A Robust Model Predictive Control Approach for Autonomous Underwater Vehicles Operating in a Constrained Workspace <b>2018</b> ,		10
151	Navigation Functions for everywhere partially sufficiently curved worlds <b>2012</b> ,		9
150	A visual-servoing scheme for semi-autonomous operation of an underwater robotic vehicle using an IMU and a Laser Vision System <b>2010</b> ,		9

149	Assessment of muscle fatigue using a probabilistic framework for an EMG-based robot control scenario <b>2008</b> ,		9
148	Laplacian cooperative attitude control of multiple rigid bodies <b>2006</b> ,		9
147	Distance estimation and collision prediction for on-line robotic motion planning. <i>Automatica</i> , <b>1992</b> , 28, 389-394	5.7	9
146	Mapping human to robot motion with functional anthropomorphism for teleoperation and telemanipulation with robot arm hand systems <b>2013</b> ,		8
145	Decentralized 2-D control of vehicular platoons under limited visual feedback <b>2015</b> ,		8
144	Robustness analysis of model predictive control for constrained Image-Based Visual Servoing <b>2014</b> ,		8
143	A robust visual servo control scheme with prescribed performance for an autonomous underwater vehicle <b>2013</b> ,		8
142	Dipole-like fields for stabilization of systems with Pfaffian constraints <b>2010</b> ,		8
141	A bio-inspired filtering framework for the EMG-based control of robots <b>2009</b> ,		8
140	Ground Assisted Conflict Resolution in Self-Separation Airspace <b>2008</b> ,		8
139	Design and Development of a Novel Robotic Platform for Neuro-Robotics Applications: the NEURobotics ARM (NEURARM). <i>Advanced Robotics</i> , <b>2008</b> , 22, 3-37	1.7	8
138	Ultrasonic navigation for a wheeled nonholonomic vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>1995</b> , 12, 239-258	2.9	8
137	Reconfigurable multi-robot coordination with guaranteed convergence in obstacle cluttered environments under local communication. <i>Autonomous Robots</i> , <b>2018</b> , 42, 853-873	3	8
136	A Robust Force Control Approach for Underwater Vehicle Manipulator Systems. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 11197-11202	0.7	7
135	Sensors fault diagnosis in autonomous mobile robots using observer Based technique <b>2015</b> ,		7
134	Humanlike, task-specific reaching and grasping with redundant arms and low-complexity hands <b>2015</b> ,		7
133	The PANDORA project: A success story in AUV autonomy <b>2016</b> ,		7
132	Robust Formation Control for Multiple Underwater Vehicles. <i>Frontiers in Robotics and AI</i> , <b>2019</b> , 6, 90	2.8	7



131	Task specific robust grasping for multifingered robot hands <b>2014,</b>		7
130	Navigation functions for focally admissible surfaces <b>2013,</b>		7
129	Control of underactuated systems with viability constraints <b>2011,</b>		7
128	Coordination of multiple non-holonomic agents with input constraints <b>2009,</b>		7
127	Towards the stabilization of an underactuated underwater vehicle in the presence of unknown disturbances <b>2008,</b>		7
126	A Feedback Stabilization and Collision Avoidance Scheme for Multiple Independent Nonholonomic Non-Point Agents		7
125	Laplacian Cooperative Attitude Control of Multiple Rigid Bodies <b>2006,</b>		7
124	Optimal and suboptimal motion planning for collision avoidance of mobile robots in non-stationary environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>1994</b> , 11, 223-267	2.9	7
123	Deriving Humanlike Arm Hand System Poses. <i>Journal of Mechanisms and Robotics</i> , <b>2017</b> , 9,	2.2	6
122	Multi-Agent Formation Control Based on Distributed Estimation With Prescribed Performance. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 2929-2934	4.2	6
121	Collaborative Multi-Robot Transportation in Obstacle-Cluttered Environments via Implicit Communication. <i>Frontiers in Robotics and AI</i> , <b>2018</b> , 5, 90	2.8	6
120	PANDORA - Persistent Autonomy Through Learning, Adaptation, Observation and Replanning?. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 238-243	0.7	6
119	A robust self triggered Image Based Visual Servoing Model Predictive Control scheme for small autonomous robots <b>2015,</b>		6
118	Open-source, low-cost, compliant, modular, underactuated fingers: towards affordable prostheses for partial hand amputations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2541-4	0.9	6
117	Prescribed performance image based visual servoing under field of view constraints <b>2014,</b>		6
116	Robust control of large vehicular platoons with prescribed transient and steady state performance <b>2014,</b>		6
115	Decentralized Navigation and Conflict Avoidance for Aircraft in 3-D Space. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 1622-1629	4.8	6
114	Distributed 3D navigation and collision avoidance for nonholonomic aircraft-like vehicles <b>2009,</b>		6

113	Towards constant velocity Navigation and collision avoidance for autonomous nonholonomic aircraft-like vehicles <b>2009</b> ,		6
112	Estimating arm motion and force using EMG signals: On the control of exoskeletons <b>2008</b> ,		6
111	Towards locally computable polynomial navigation functions for convex obstacle workspaces <b>2008</b> ,		6
110	On the State Agreement Problem for Multiple Unicycles with Varying Communication Links <b>2006</b> ,		6
109	Robust model-free formation control with prescribed performance for nonlinear multi-agent systems <b>2015</b> ,		5
108	Reconfigurable Motion Planning and Control in Obstacle Cluttered Environments under Timed Temporal Tasks <b>2019</b> ,		5
107	Robust stabilization control of unknown small-scale helicopters <b>2014</b> ,		5
106	An integrated approach towards robust grasping with tactile sensing <b>2014</b> ,		5
105	Sonar-based chain following using an autonomous underwater vehicle <b>2014</b> ,		5
104	Motion control for autonomous underwater vehicles: A robust model-free approach <b>2014</b> ,		5
103	Navigation functions learning from experiments: Application to anthropomorphic grasping <b>2012</b> ,		5
102	On the effect of human arm manipulability in 3D force tasks: Towards force-controlled exoskeletons <b>2011</b> ,		5
101	Decentralised navigation and collision avoidance for aircraft in 3D space <b>2010</b> ,		5
100	An inverse agreement control strategy with application to swarm dispersion <b>2007</b> ,		5
99	Motion Planning and Trajectory Tracking on 2-D Manifolds embedded in 3-D Workspaces		5
98	Physical Human-Robot Cooperation Based on Robust Motion Intention Estimation. <i>Robotica</i> , <b>2020</b> , 38, 1842-1866	2.1	5
97	Multirobot Navigation Functions II: Towards Decentralization 209-253		5
96	. <i>IEEE Transactions on Control of Network Systems</i> , <b>2017</b> , 4, 781-792	4	4

95	Hyper-Damping Behavior of Stiff and Stable Oscillators with Embedded Statically Unstable Stiffness Elements. <i>International Journal of Structural Stability and Dynamics</i> , <b>2017</b> , 17, 1740008	1.9	4
94	Decentralized object transportation by two nonholonomic mobile robots exploiting only implicit communication <b>2015</b> ,		4
93	Vision-based Autonomous Landing Control for Unmanned Helicopters. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2018</b> , 92, 145-158	2.9	4
92	A Distributed Predictive Control Approach for Cooperative Manipulation of Multiple Underwater Vehicle Manipulator Systems <b>2019</b> ,		4
91	On-line state and parameter estimation of an under-actuated underwater vehicle using a modified Dual Unscented Kalman Filter <b>2010</b> ,		4
90	<b>2011</b> ,		4
89	Relating postural synergies to low-D muscular activations: Towards bio-inspired control of robotic hands <b>2012</b> ,		4
88	Leader-follower cooperative attitude control of multiple rigid bodies <b>2008</b> ,		4
87	Motion tasks for robot manipulators on embedded 2-D manifolds under input constraints <b>2007</b> ,		4
86	Towards recognition of control variables for an exoskeleton <b>2006</b> ,		4
85	An application of Rantzer's Dual Lyapunov Theorem to Decentralized Navigation <b>2007</b> ,		4
84	Teleoperation of a Robot Arm in 2D Catching Movements using EMG Signals and a Bio-inspired Motion Law		4
83	Motion tasks for robot manipulators on embedded 2-D manifolds <b>2006</b> ,		4
82	Human-Robot Collaboration based on Robust Motion Intention Estimation with Prescribed Performance <b>2018</b> ,		4
81	Safe decentralized and reconfigurable multi-agent control with guaranteed convergence <b>2017</b> ,		3
80	Autonomous model-free landing control of small-scale flybarless helicopters <b>2015</b> ,		3
79	Robust Prescribed Performance tracking control for unknown underactuated torpedo-like AUVs <b>2013</b> ,		3
78	A robust sonar servo control scheme for wall-following using an autonomous underwater vehicle <b>2013</b> ,		3

77	Multi-robot Multiple Hypothesis Tracking for pedestrian tracking with detection uncertainty <b>2011</b> ,		3
76	Nonlinear Symbolic Analysis for Advanced Program Parallelization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2009</b> , 20, 623-640	3-7	3
75	Motion Tasks and Force Control for Robot Manipulators on Embedded 2-D Manifolds. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		3
74	Connectivity Preserving State Agreement for Multiple Unicycles. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
73	Motion Planning of Piezoelectrically Driven Micro-Robots Via Navigation Functions		3
72	Centralized Motion Planning for a Group of Micro Agents Manipulating a Rigid Object		3
71	Approximate Control of Formations of Multiagent systems		3
70	Kane's approach to modeling mobile manipulators. <i>Advanced Robotics</i> , <b>2002</b> , 16, 57-85	1.7	3
69	Multirobot Navigation Functions 1171-207		3
68	An Efficient Approach for Graph-Based Fault Diagnosis in UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2020</b> , 97, 553-576	2.9	3
67	A Model Predictive Control Approach for Vision-Based Object Grasping via Mobile Manipulator <b>2018</b> ,		3
66	Task specific cooperative grasp planning for decentralized multi-robot systems <b>2015</b> ,		2
65	Generating semi-explicit DAEs with Structural Index 1 for fault diagnosis using structural analysis <b>2017</b> ,		2
64	Sequential improvement of grasp based on sensitivity analysis <b>2013</b> ,		2
63	Roadmaps using gradient extremal paths <b>2013</b> ,		2
62	Quantifying anthropomorphism of robot arms <b>2015</b> ,		2
61	Towards cooperation of underwater vehicles: A Leader-Follower scheme using vision-based implicit communications <b>2015</b> ,		2
60	Decentralized leader-follower control under high level goals without explicit communication <b>2015</b> ,		2

59	Control Design for a Class of Nonholonomic Systems Via Reference Vector Fields and Output Regulation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	2
58	Aperiodic model predictive control via perturbation analysis <b>2012</b> ,		2
57	Cooperative formation control of underactuated marine vehicles for target surveillance under sensing and communication constraints <b>2013</b> ,		2
56	Modeling anthropomorphism in dynamic human arm movements <b>2010</b> ,		2
55	Decentralized lattice formation control for micro robotic swarms <b>2009</b> ,		2
54	Control of an Underactuated Underwater Vehicle in 3D Space under Field-of-View Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 25-30		2
53	Semi-autonomous teleoperation of a non-holonomic underwater vehicle using a Laser Vision System: A visual-servoing switching control approach <b>2009</b> ,		2
52	Motion tasks for robot manipulators subject to joint velocity constraints <b>2008</b> ,		2
51	Hybrid control of a constrained velocity unicycle with local sensing <b>2008</b> ,		2
50	Inverse agreement algorithms with application to swarm dispersion for multiple nonholonomic agents <b>2008</b> ,		2
49	Navigation of multiple input constraint micro-robotic agents <b>2005</b> ,		2
48	Gesture Recognition: The Gesture Segmentation Problem. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2000</b> , 28, 151-158	2.9	2
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