

Kostas J Kyriakopoulos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Trajectory Planning in Unknown 2D Workspaces: A Smooth, Reactive, Harmonics-Based Approach. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1992-1999	4.2	1
255	Bounded Energy Collisions in Human-Robot Cooperative Transportation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-9	5.5	
254	Optimal Motion Planning in Unknown Workspaces using Integral Reinforcement Learning. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	
253	A Vision-Based Motion Control Framework for Water Quality Monitoring Using an Unmanned Aerial Vehicle. <i>Sustainability</i> , 2022 , 14, 6502	3.6	
252	A Mixed-Initiative Formation Control Strategy for Multiple Quadrotors. <i>Robotics</i> , 2021 , 10, 116	2.8	1
251	Harmonic-Based Optimal Motion Planning in Constrained Workspaces Using Reinforcement Learning. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2005-2011	4.2	2
250	A Fault-Tolerant Control Scheme for Fixed-Wing UAVs with Flight Envelope Awareness. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 102, 1	2.9	2
249	Coordination of Multiple Robotic Vehicles in Obstacle-Cluttered Environments. <i>Robotics</i> , 2021 , 10, 75	2.8	1
248	Efficient Cooperation of Heterogeneous Robotic Agents: A Decentralized Framework. <i>IEEE Robotics and Automation Magazine</i> , 2021 , 28, 74-87	3.4	0
247	Cooperative Impedance Control for Multiple Underwater Vehicle Manipulator Systems Under Lean Communication. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 447-465	3.3	11
246	A Predictive Control Approach for Cooperative Transportation by Multiple Underwater Vehicle Manipulator Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-14	4.8	1
245	Computationally Efficient Harmonic-Based Reactive Exploration. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2280-2285	4.2	0
244	Multi-Agent Formation Control Based on Distributed Estimation With Prescribed Performance. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2929-2934	4.2	6
243	A Self-triggered Position Based Visual Servoing Model Predictive Control Scheme for Underwater Robotic Vehicles. <i>Machines</i> , 2020 , 8, 33	2.9	10
242	Optimal Robot Motion Planning in Constrained Workspaces Using Reinforcement Learning 2020 ,		2
241	A Flight Envelope Determination and Protection System for Fixed-Wing UAVs 2020 ,		1
240	Target Tracking with Multi-rotor Aerial Vehicles based on a Robust Visual Servo Controller with Prescribed Performance 2020 ,		1

239	Physical HumanRobot Cooperation Based on Robust Motion Intention Estimation. <i>Robotica</i> , 2020 , 38, 1842-1866	2.1	5
238	A Robust Predictive Control Approach for Underwater Robotic Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2352-2363	4.8	27
237	An Efficient Approach for Graph-Based Fault Diagnosis in UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 97, 553-576	2.9	3
236	A Motion Planning Scheme for Cooperative Loading Using Heterogeneous Robotic Agents 2019 ,		1
235	Robust Image-Based Visual Servoing With Prescribed Performance Under Field of View Constraints. <i>IEEE Transactions on Robotics</i> , 2019 , 35, 1063-1070	6.5	18
234	. <i>IEEE Journal of Oceanic Engineering</i> , 2019 , 44, 642-663	3.3	14
233	A Distributed Predictive Control Approach for Cooperative Manipulation of Multiple Underwater Vehicle Manipulator Systems 2019 ,		4
232	Reconfigurable Motion Planning and Control in Obstacle Cluttered Environments under Timed Temporal Tasks 2019 ,		5
231	Parity-Based Diagnosis in UAVs: Detectability and Robustness Analyses 2019 ,		1
230	Robust Formation Control for Multiple Underwater Vehicles. <i>Frontiers in Robotics and AI</i> , 2019 , 6, 90	2.8	7
229	Robot Navigation Under MITL Constraints Using Time-Dependent Vector Field Based Control 2019 ,		2
228	Decentralized Load Frequency Control with Prescribed Performance for Interconnected Power Systems 2019 ,		1
227	A distributed control and parameter estimation protocol with prescribed performance for homogeneous lagrangian multi-agent systems. <i>Autonomous Robots</i> , 2018 , 42, 1525-1541	3	12
226	Prescribed Time Scale Robot Navigation. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1191-1198	4.2	10
225	Decentralized Platooning With Obstacle Avoidance for Car-Like Vehicles With Limited Sensing. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 835-840	4.2	20
224	Robust Distributed Control Protocols for Large Vehicular Platoons With Prescribed Transient and Steady-State Performance. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 299-304	4.8	43
223	Vision-based Autonomous Landing Control for Unmanned Helicopters. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 92, 145-158	2.9	4
222	Collaborative Multi-Robot Transportation in Obstacle-Cluttered Environments via Implicit Communication. <i>Frontiers in Robotics and AI</i> , 2018 , 5, 90	2.8	6

221	Reconfigurable multi-robot coordination with guaranteed convergence in obstacle cluttered environments under local communication. <i>Autonomous Robots</i> , 2018 , 42, 853-873	3	8
220	Decentralized Impedance Control for Cooperative Manipulation of Multiple Underwater Vehicle Manipulator Systems under Lean Communication 2018 ,		2
219	A Model Predictive Control Approach for Vision-Based Object Grasping via Mobile Manipulator 2018 ,		3
218	Prescribed Time Scale Robot Navigation in Dynamic Environments 2018 ,		1
217	Human-Robot Collaboration based on Robust Motion Intention Estimation with Prescribed Performance 2018 ,		4
216	A robust interaction control approach for underwater vehicle manipulator systems. <i>Annual Reviews in Control</i> , 2018 , 46, 315-325	10.3	24
215	Robot Navigation in Complex Workspaces Using Harmonic Maps 2018 ,		10
214	Online Aerodynamic Model Identification on Small Fixed-Wing UAVs with Uncertain Flight Data 2018 ,		2
213	A Robust Model Predictive Control Approach for Autonomous Underwater Vehicles Operating in a Constrained Workspace 2018 ,		10
212	. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 429-440	4.8	108
211	. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 781-792	4	4
210	Hyper-Damping Behavior of Stiff and Stable Oscillators with Embedded Statically Unstable Stiffness Elements. <i>International Journal of Structural Stability and Dynamics</i> , 2017 , 17, 1740008	1.9	4
209	Deriving Humanlike Arm Hand System Poses. <i>Journal of Mechanisms and Robotics</i> , 2017 , 9,	2.2	6
208	Robust Trajectory Tracking Control for Small-Scale Unmanned Helicopters With Model Uncertainties. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 2010-2021	4.8	32
207	A Robust Force Control Approach for Underwater Vehicle Manipulator Systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11197-11202	0.7	7
206	Generating semi-explicit DAEs with Structural Index 1 for fault diagnosis using structural analysis 2017 ,		2
205	Safe decentralized and reconfigurable multi-agent control with guaranteed convergence 2017 ,		3
204	Decentralized Reconfigurable Multi-Robot Coordination from Local Connectivity and Collision Avoidance Specifications * *This work was supported by the EU funded project Co4Robots: Achieving Complex Collaborative Missions via Decentralized Control and Coordination of Interacting Robots, H2020-ICT-731869, 2017-2019. <i>IFAC-PapersOnLine</i> , 2017 , 50, 15798-15803	0.7	1

203	A competitive differential game between an unmanned aerial and a ground vehicle using model predictive control 2016,		1
202	2016,		1
201	Fault tolerant control for omni-directional mobile platforms with 4 mecanum wheels 2016,		15
200	The PANDORA project: A success story in AUV autonomy 2016,		7
199	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> , 2016 , 17, 54-60	2.1	10
198	Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. <i>Physics of Life Reviews</i> , 2016 , 17, 1-23	2.1	139
197	UAV State Estimation Using Adaptive Complementary Filters. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1214-1226	4.8	53
196	Toward persistent autonomous intervention in a subsea panel. <i>Autonomous Robots</i> , 2016 , 40, 1279-1306;		23
195	A Learn by Demonstration Approach for Closed-Loop, Robust, Anthropomorphic Grasp Planning. <i>Springer Series on Touch and Haptic Systems</i> , 2016 , 127-149	0.1	
194	Distributed control and parameter estimation for homogeneous Lagrangian multi-agent systems 2016,		1
193	Sensors fault diagnosis in autonomous mobile robots using observer Based technique 2015,		7
192	Quadrotor landing on an inclined platform of a moving ground vehicle 2015,		21
191	Task specific cooperative grasp planning for decentralized multi-robot systems 2015,		2
190	Humanlike, task-specific reaching and grasping with redundant arms and low-complexity hands 2015,		7
189	Decentralized object transportation by two nonholonomic mobile robots exploiting only implicit communication 2015,		4
188	Robust model-free formation control with prescribed performance for nonlinear multi-agent systems 2015,		5
187	Quantifying anthropomorphism of robot arms 2015,		2
186	PANDORA - Persistent Autonomy Through Learning, Adaptation, Observation and Replanning?. <i>IFAC-PapersOnLine</i> , 2015 , 48, 238-243	0.7	6

185	A robust self triggered Image Based Visual Servoing Model Predictive Control scheme for small autonomous robots 2015 ,		6
184	Open-source, anthropomorphic, underactuated robot hands with a selectively lockable differential mechanism: Towards affordable prostheses 2015 ,		45
183	Cooperative manipulation exploiting only implicit communication 2015 ,		25
182	Mechanical design, modelling and control of a novel aerial manipulator 2015 ,		21
181	Autonomous model-free landing control of small-scale flybarless helicopters 2015 ,		3
180	Decentralized 2-D control of vehicular platoons under limited visual feedback 2015 ,		8
179	Towards cooperation of underwater vehicles: A Leader-Follower scheme using vision-based implicit communications 2015 ,		2
178	Decentralized leader-follower control under high level goals without explicit communication 2015 ,		2
177	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> , 2015 , 137,	1.6	2
176	Robust stabilization control of unknown small-scale helicopters 2014 ,		5
175	Task specific robust grasping for multifingered robot hands 2014 ,		7
174	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, 2014, 2014, 2511-1</i>	0.9	6
173	An integrated approach towards robust grasping with tactile sensing 2014 ,		5
172	A self-triggered visual servoing model predictive control scheme for under-actuated underwater robotic vehicles 2014 ,		18
171	Task-specific grasp selection for underactuated hands 2014 ,		13
170	Dynamic positioning for an underactuated marine vehicle using hybrid control. <i>International Journal of Control</i> , 2014 , 87, 264-280	1.5	34
169	Sonar-based chain following using an autonomous underwater vehicle 2014 ,		5
168	Prescribed performance image based visual servoing under field of view constraints 2014 ,		6

167	Open-source, affordable, modular, light-weight, underactuated robot hands 2014 ,		30
166	Robust control of large vehicular platoons with prescribed transient and steady state performance 2014 ,		6
165	Robust model-free formation control with prescribed performance and connectivity maintenance for nonlinear multi-agent systems 2014 ,		13
164	A Prescribed Performance Robust Nonlinear Model Predictive Control framework 2014 ,		1
163	Robust model free control of robotic manipulators with prescribed transient and steady state performance 2014 ,		11
162	Motion control for autonomous underwater vehicles: A robust model Γ Free approach 2014 ,		5
161	Model based actuator fault diagnosis for a mobile robot 2014 ,		10
160	Robustness analysis of model predictive control for constrained Image-Based Visual Servoing 2014 ,		8
159	A Learning Scheme for EMG Based Interfaces: On Task Specificity in Motion Decoding Domain. <i>Trends in Augmentation of Human Performance</i> , 2014 , 3-36		1
158	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> , 2013 , 17, 915-21	7.2	41
157	Robust H2/H ∞ Position Tracking control of an Unmanned Helicopter for near-hover flights 2013 ,		1
156	Mapping human to robot motion with functional anthropomorphism for teleoperation and telemanipulation with robot arm hand systems 2013 ,		8
155	Sequential improvement of grasp based on sensitivity analysis 2013 ,		2
154	Roadmaps using gradient extremal paths 2013 ,		2
153	2013 ,		12
152	Task discrimination from myoelectric activity: a learning scheme for EMG-based interfaces. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2013 , 2013, 6650366	1.3	11
151	Viability control for a class of underactuated systems. <i>Automatica</i> , 2013 , 49, 17-29	5.7	36
150	Decentralized and Prioritized Navigation and Collision Avoidance for Multiple Mobile Robots. <i>Springer Tracts in Advanced Robotics</i> , 2013 , 189-202	0.5	16

149	Robust Prescribed Performance tracking control for unknown underactuated torpedo-like AUVs 2013,	3
148	Robust attitude control for an unmanned helicopter in near-hover flights 2013,	1
147	A robust visual servo control scheme with prescribed performance for an autonomous underwater vehicle 2013,	8
146	Quantifying anthropomorphism of robot hands 2013,	30
145	Navigation functions for focally admissible surfaces 2013,	7
144	A robust sonar servo control scheme for wall-following using an autonomous underwater vehicle 2013,	3
143	On-line identification of autonomous underwater vehicles through global derivative-free optimization 2013,	11
142	Cooperative formation control of underactuated marine vehicles for target surveillance under sensing and communication constraints 2013,	2
141	A self-triggered Model Predictive Control framework for the cooperation of distributed nonholonomic agents 2013,	18
140	Model Predictive Control for the navigation of a nonholonomic vehicle with field-of-view constraints 2013,	21
139	Nonlinear, Deterministic Sampling Based State Estimation for Highly-Maneuverable Small Unmanned Aerial Vehicles: a Comparative Development 2013,	1
138	Self-triggered Model Predictive Control for nonholonomic systems 2013,	17
137	Multi-robot multiple hypothesis tracking for pedestrian tracking. <i>Autonomous Robots</i> , 2012 , 32, 63-79	3 17
136	Navigation Functions for everywhere partially sufficiently curved worlds 2012,	9
135	Decentralized Navigation and Conflict Avoidance for Aircraft in 3-D Space. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1622-1629	4.8 6
134	Navigation functions learning from experiments: Application to anthropomorphic grasping 2012,	5
133	Learning human reach-to-grasp strategies: Towards EMG-based control of robotic arm-hand systems 2012,	37
132	Aperiodic model predictive control via perturbation analysis 2012,	2

131	Decentralized multi-agent control from local LTL specifications 2012 ,		25
130	Event-based model Predictive control for the cooperation of distributed agents 2012 ,		16
129	Functional Anthropomorphism for human to robot motion mapping 2012 ,		25
128	Relating postural synergies to low-D muscular activations: Towards bio-inspired control of robotic hands 2012 ,		4
127	Learning task-specific models for reach to grasp movements: Towards EMG-based teleoperation of robotic arm-hand systems 2012 ,		14
126	A decentralized event-based predictive navigation scheme for Air-Traffic Control 2012 ,		1
125	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> , 2012 , 45, 25-30		2
124	Persistent autonomy: the challenges of the PANDORA project. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 268-273		19
123	On the effect of human arm manipulability in 3D force tasks: Towards force-controlled exoskeletons 2011 ,		5
122	Novel event-triggered strategies for Model Predictive Controllers 2011 ,		56
121	Control of underactuated systems with viability constraints 2011 ,		7
120	A switching regime model for the EMG-based control of a robot arm. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 53-63		99
119	Event-Triggered Strategies for Decentralized Model Predictive Controllers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10068-10073		26
118	Switching Manipulator Control for Motion on Constrained Surfaces. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011 , 62, 217-239	2.9	1
117	Towards semi-autonomous operation of under-actuated underwater vehicles: sensor fusion, on-line identification and visual servo control. <i>Autonomous Robots</i> , 2011 , 31, 67-86	3	17
116	Multi-robot Multiple Hypothesis Tracking for pedestrian tracking with detection uncertainty 2011 ,		3
115	2011 ,		4
114	Adjustable navigation functions for unknown sphere worlds 2011 ,		21

113	Control of nonholonomic systems using reference vector fields 2011 ,		13
112	Completely decentralised Navigation Functions for agents with finite sensing regions with application in aircraft conflict resolution 2011 ,		1
111	Bio-Inspired Mechatronics and Control Interfaces 2011 , 749-775		
110	Modeling and control of heterogeneous non-holonomic input-constrained multiagent systems 2010 ,		1
109	On-line state and parameter estimation of an under-actuated underwater vehicle using a modified Dual Unscented Kalman Filter 2010 ,		4
108	Dipole-like fields for stabilization of systems with Pfaffian constraints 2010 ,		8
107	A multiple hypothesis people tracker for teams of mobile robots 2010 ,		1
106	Completely decentralised navigation of multiple unicycle agents with prioritisation and fault tolerance 2010 ,		13
105	Modeling anthropomorphism in dynamic human arm movements 2010 ,		2
104	Human arm impedance: Characterization and modeling in 3D space 2010 ,		27
103	Decentralised navigation and collision avoidance for aircraft in 3D space 2010 ,		5
102	Event-triggered control for discrete-time systems 2010 ,		192
101	EMG-Based Control of a Robot Arm Using Low-Dimensional Embeddings. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 393-398	6.5	168
100	A visual-servoing scheme for semi-autonomous operation of an underwater robotic vehicle using an IMU and a Laser Vision System 2010 ,		9
99	A biomimetic approach to inverse kinematics for a redundant robot arm. <i>Autonomous Robots</i> , 2010 , 29, 293-308	3	66
98	An EMG-based robot control scheme robust to time-varying EMG signal features. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 582-8		134
97	3D navigation and collision avoidance for nonholonomic aircraft-like vehicles. <i>International Journal of Adaptive Control and Signal Processing</i> , 2010 , 24, 900-920	2.8	36
96	Distributed 3D navigation and collision avoidance for nonholonomic aircraft-like vehicles 2009 ,		6

95	A viability approach for the stabilization of an underactuated underwater vehicle in the presence of current disturbances 2009 ,		10
94	Decentralized lattice formation control for micro robotic swarms 2009 ,		2
93	Towards constant velocity Navigation and collision avoidance for autonomous nonholonomic aircraft-like vehicles 2009 ,		6
92	Leader-follower cooperative attitude control of multiple rigid bodies. <i>Systems and Control Letters</i> , 2009 , 58, 429-435	2.4	241
91	Nonlinear Symbolic Analysis for Advanced Program Parallelization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2009 , 20, 623-640	3-7	3
90	Controlling the motion of robot manipulators on constrained surfaces 2009 ,		1
89	Coordination of multiple non-holonomic agents with input constraints 2009 ,		7
88	Inverse Agreement Protocols With Application to Distributed Multi-Agent Dispersion. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 657-663	5-9	20
87	A bio-inspired filtering framework for the EMG-based control of robots 2009 ,		8
86	Semi-autonomous teleoperation of a non-holonomic underwater vehicle using a Laser Vision System: A visual-servoing switching control approach 2009 ,		2
85	EMG-Based Position and Force Estimates in Coupled Human-Robot Systems: Towards EMG-Controlled Exoskeletons. <i>Springer Tracts in Advanced Robotics</i> , 2009 , 241-250	0.5	22
84	Ground Assisted Conflict Resolution in Self-Separation Airspace 2008 ,		8
83	Navigation of Multiple Kinematically Constrained Robots 2008 , 24, 221-231		55
82	. <i>IEEE Transactions on Robotics</i> , 2008 , 24, 1213-1223	6.5	136
81	Control of multiple non-holonomic air vehicles under wind uncertainty using Model Predictive Control and decentralized navigation functions 2008 ,		14
80	Design and Development of a Novel Robotic Platform for Neuro-Robotics Applications: the NEURobotics ARM (NEURARM). <i>Advanced Robotics</i> , 2008 , 22, 3-37	1.7	8
79	Assessment of muscle fatigue using a probabilistic framework for an EMG-based robot control scenario 2008 ,		9
78	Estimating arm motion and force using EMG signals: On the control of exoskeletons 2008 ,		6

77	Motion tasks for robot manipulators subject to joint velocity constraints 2008 ,		2
76	Hybrid control of a constrained velocity unicycle with local sensing 2008 ,		2
75	Visual servo control of an underwater vehicle using a Laser Vision System 2008 ,		10
74	Towards the stabilization of an underactuated underwater vehicle in the presence of unknown disturbances 2008 ,		7
73	Towards locally computable polynomial navigation functions for convex obstacle workspaces 2008 ,		6
72	Leader-follower cooperative attitude control of multiple rigid bodies 2008 ,		4
71	3D navigation and collision avoidance for a non-holonomic vehicle 2008 ,		22
70	Inverse agreement algorithms with application to swarm dispersion for multiple nonholonomic agents 2008 ,		2
69	A connection between formation infeasibility and velocity alignment in kinematic multi-agent systems. <i>Automatica</i> , 2008 , 44, 2648-2654	5:7	127
68	EMG-based teleoperation of a robot arm using low-dimensional representation 2007 ,		27
67	Motion tasks for robot manipulators on embedded 2-D manifolds under input constraints 2007 ,		4
66	Simultaneous localization and map building of skid-steered robots. <i>IEEE Robotics and Automation Magazine</i> , 2007 , 14, 79-89	3:4	21
65	Decentralized Navigation Functions for Multiple Robotic Agents with Limited Sensing Capabilities. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2007 , 48, 411-433	2:9	30
64	Motion Tasks and Force Control for Robot Manipulators on Embedded 2-D Manifolds. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,		3
63	Further results on formation infeasibility and velocity alignment 2007 ,		1
62	Localization of an underwater vehicle using an IMU and a laser-based vision system 2007 ,		14
61	An application of Rantzer's Dual Lyapunov Theorem to Decentralized Navigation 2007 ,		4
60	Connectivity Preserving State Agreement for Multiple Unicycles. <i>Proceedings of the American Control Conference</i> , 2007 ,	1:2	3

59	An inverse agreement control strategy with application to swarm dispersion 2007 ,		5
58	An optimal scheduling scheme for tiling in distributed systems 2007 ,		1
57	EMG-based position and force control of a robot arm: Application to teleoperation and orthosis 2007 ,		26
56	Locally Computable Navigation Functions for Sphere Worlds. <i>Proceedings - IEEE International Conference on Robotics and Automation, 2007</i> ,		13
55	George Nikolaos Saridis [In Memoriam]. <i>IEEE Control Systems, 2007, 27, 101-101</i>	2.9	
54	On the Rendezvous Problem for Multiple Nonholonomic Agents. <i>IEEE Transactions on Automatic Control, 2007, 52, 916-922</i>	5.9	317
53	Connectivity preserving distributed swarm aggregation for multiple kinematic agents 2007 ,		15
52	Modeling, full identification and control of the mitsubishi PA-10 robot arm 2007 ,		22
51	An application of Rantzer's dual Lyapunov Theorem to decentralized formation stabilization 2007 ,		2
50	A feedback-based multiagent navigation framework. <i>International Journal of Systems Science, 2006, 37, 377-384</i>	2.3	13
49	Distributed cooperative control and collision avoidance for multiple kinematic agents 2006 ,		17
48	On the State Agreement Problem for Multiple Unicycles with Varying Communication Links 2006 ,		6
47	Laplacian cooperative attitude control of multiple rigid bodies 2006 ,		9
46	A Leader-based Containment Control Strategy for Multiple Unicycles 2006 ,		69
45	Towards recognition of control variables for an exoskeleton 2006 ,		4
44	Target-referenced Localization of an Underwater Vehicle using a Laser-based Vision System 2006 ,		13
43	A feedback control scheme for multiple independent dynamic non-point agents. <i>International Journal of Control, 2006, 79, 1613-1623</i>	1.5	16
42	Motion tasks for robot manipulators on embedded 2-D manifolds 2006 ,		4

41	Laplacian Cooperative Attitude Control of Multiple Rigid Bodies 2006 ,		7
40	A feedback stabilization and collision avoidance scheme for multiple independent non-point agents. <i>Automatica</i> , 2006 , 42, 229-243	5-7	192
39	Control of the Multi Agent Micro-Robotic Platform MiCRoN 2006 ,		2
38	Towards Recognition of Control Variables for an Exoskeleton 2006 ,		2
37	From the guest edit european robotic projects. <i>IEEE Robotics and Automation Magazine</i> , 2005 , 12, 4-4	3-4	
36	Teleoperation of a robot manipulator using EMG signals and a position tracker 2005 ,		21
35	Navigation of multiple input constraint micro-robotic agents 2005 ,		2
34	Backstepping for nonsmooth systems. <i>Automatica</i> , 2003 , 39, 1259-1265	5-7	57
33	Nonholonomic navigation and control of cooperating mobile manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2003 , 19, 53-64		186
32	Kane's approach to modeling mobile manipulators. <i>Advanced Robotics</i> , 2002 , 16, 57-85	1-7	3
31	Advanced agricultural robots: kinematics and dynamics of multiple mobile manipulators handling non-rigid material. <i>Computers and Electronics in Agriculture</i> , 2001 , 31, 91-105	6-5	18
30	Mobile manipulator modeling with Kane's approach. <i>Robotica</i> , 2001 , 19, 675-690	2-1	31
29	Gesture Recognition: The Gesture Segmentation Problem. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2000 , 28, 151-158	2-9	2
28	Simultaneous localization and map building for mobile robot navigation. <i>IEEE Robotics and Automation Magazine</i> , 1999 , 6, 42-53	3-4	33
27	Modeling of multiple mobile manipulators handling a common deformable object. <i>Journal of Field Robotics</i> , 1998 , 15, 599-623		29
26	Modeling of Multiple Mobile Manipulators Handling a Common Deformable Object. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 283-287		
25	Kinematic analysis and position/force control of the Anthrobot dextrous hand. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1997 , 27, 95-104		32
24	Ultrasonic navigation for a wheeled nonholonomic vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1995 , 12, 239-258	2-9	8

23	Sensor-based self-localization for wheeled mobile robots. <i>Journal of Field Robotics</i> , 1995 , 12, 163-176		13
22	Stabilization of non-holonomic vehicles under kinematic constraints. <i>International Journal of Control</i> , 1995 , 61, 933-947	1.5	18
21	Minimum jerk for trajectory planning and control. <i>Robotica</i> , 1994 , 12, 109-113	2.1	17
20	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> , 1994 , 11, 223-267	2.9	7
19	An integrated collision prediction and avoidance scheme for mobile robots in non-stationary environments. <i>Automatica</i> , 1993 , 29, 309-322	5.7	20
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16	A connection between formation control and flocking behavior in nonholonomic multiagent systems		14
15	Totally distributed motion control of sphere world multi-agent systems using decentralized navigation functions		12
14	Automated Planning of Motion Tasks for Multi-Robot Systems		16
13	A Neuro-Dynamic Based Conflict Resolution Scheme for Air Traffic Management		1
12	Motion Planning of Piezoelectrically Driven Micro-Robots Via Navigation Functions		3
11	Motion Planning and Trajectory Tracking on 2-D Manifolds embedded in 3-D Workspaces		5
10	A Feedback Stabilization and Collision Avoidance Scheme for Multiple Independent Nonholonomic Non-Point Agents		7
9	Teleoperation of a Robot Arm in 2D Catching Movements using EMG Signals and a Bio-inspired Motion Law		4
8	EMG-based teleoperation of a robot arm in planar catching movements using ARMAX model and trajectory monitoring techniques		18
7	Decentralized motion control of multiple holonomic agents under input constraints		28
6	Formation Control and Collision Avoidance for Multi-Agent Systems and a Connection between Formation Infeasibility and Flocking Behavior		18

5	Centralized Motion Planning for a Group of Micro Agents Manipulating a Rigid Object	3
4	Approximate Control of Formations of Multiagent systems	3
3	Discontinuous backstepping for stabilization of nonholonomic mobile robots	11
2	Multirobot Navigation Functions I171-207	3
1	Multirobot Navigation Functions II: Towards Decentralization209-253	5