

George J Pappas

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.

400
papers

15,117
citations

62
h-index

111
g-index

440
ext. papers

18,537
ext. citations

3.6
avg, IF

7.07
L-index

#	Paper	IF	Citations
400	Online Learning-Based Trajectory Tracking for Underactuated Vehicles With Uncertain Dynamics 2022 , 6, 2090-2095		1
399	Perception-Based Temporal Logic Planning in Uncertain Semantic Maps. <i>IEEE Transactions on Robotics</i> , 2022 , 1-21	6.5	0
398	Distributed Attack-Robust Submodular Maximization for Multirobot Planning. <i>IEEE Transactions on Robotics</i> , 2022 , 1-16	6.5	0
397	Reactive and Risk-Aware Control for Signal Temporal Logic. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
396	Encrypted Control for Networked Systems: An Illustrative Introduction and Current Challenges. <i>IEEE Control Systems</i> , 2021 , 41, 58-78	2.9	7
395	Statistical learning for analysis of networked control systems over unknown channels. <i>Automatica</i> , 2021 , 125, 109386	5.7	3
394	Teaching recurrent neural networks to infer global temporal structure from local examples. <i>Nature Machine Intelligence</i> , 2021 , 3, 316-323	22.5	20
393	Fair Robust Assignment Using Redundancy. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4217-4224	4.2	2
392	Stochastic Motion Planning Under Partial Observability for Mobile Robots With Continuous Range Measurements. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 979-995	6.5	3
391	Latency-Reliability Tradeoffs for State Estimation. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1009-1023	5.9	5
390	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1468-1483	5.9	6
389	Approximate Supermodularity of Kalman Filter Sensor Selection. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 49-63	5.9	6
388	Cloud-Based Quadratic Optimization With Partially Homomorphic Encryption. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2357-2364	5.9	9
387	Verisig 2.0: Verification of Neural Network Controllers Using Taylor Model Preconditioning. <i>Lecture Notes in Computer Science</i> , 2021 , 249-262	0.9	6
386	Data-driven Distributionally Robust Optimization For Vehicle Balancing of Mobility-on-Demand Systems. <i>ACM Transactions on Cyber-Physical Systems</i> , 2021 , 5, 1-27	2.3	1
385	On the Structural Target Controllability of Undirected Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 4836-4843	5.9	1
384	Private Weighted Sum Aggregation. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1	4	1

383	Resilient Active Information Acquisition With Teams of Robots. <i>IEEE Transactions on Robotics</i> , 2021 , 1-186.5	2
382	STL Robustness Risk over Discrete-Time Stochastic Processes 2021 ,	2
381	Robust Motion Planning in the Presence of Estimation Uncertainty 2021 ,	3
380	Model-Free Learning of Optimal Ergodic Policies in Wireless Systems. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 6272-6286	4.8 1
379	Better Safe Than Sorry: Risk-Aware Nonlinear Bayesian Estimation 2020 ,	2
378	Reactive Semantic Planning in Unexplored Semantic Environments Using Deep Perceptual Feedback. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4455-4462	4.2 5
377	Network Design for Controllability Metrics. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1404-1415	4 3
376	Finite-dimensional control of linear discrete-time fractional-order systems. <i>Automatica</i> , 2020 , 115, 1085127	5
375	Model-based design for seizure control by stimulation. <i>Journal of Neural Engineering</i> , 2020 , 17, 026009	5 7
374	Safety Verification and Robustness Analysis of Neural Networks via Quadratic Constraints and Semidefinite Programming. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9 9
373	Robust and Adaptive Sequential Submodular Optimization. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9 2
372	Private Weighted Sum Aggregation for Distributed Control Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11081-11088	10.8
371	Learning to Control over Unknown Wireless Channels. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2600-2605	0.7
370	Reach-SDP: Reachability Analysis of Closed-Loop Systems with Neural Network Controllers via Semidefinite Programming 2020 ,	10
369	Secure Multi-party Computation for Cloud-Based Control 2020 , 179-207	6
368	Models of communication and control for brain networks: distinctions, convergence, and future outlook. <i>Network Neuroscience</i> , 2020 , 4, 1122-1159	5.6 9
367	Distributed Attack-Robust Submodular Maximization for Multi-Robot Planning 2020 ,	11
366	Reactive Temporal Logic Planning for Multiple Robots in Unknown Environments 2020 ,	3

365	State-Secrecy Codes for Networked Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2001-2015	5.9	19
364	A Control-Theoretic Approach to Analysis and Parameter Selection of Douglas-Rachford Splitting 2020 , 4, 199-204		1
363	Robust Economic Model Predictive Control of Continuous-Time Epidemic Processes. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1116-1131	5.9	19
362	Consensus of Multiagent Systems Via Asynchronous Cloud Communication. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 627-637	4	3
361	Control of Generalized Discrete-Time SIS Epidemics via Submodular Function Minimization 2019 , 3, 314-319		2
360	Encrypted LQG using labeled homomorphic encryption 2019 ,		9
359	Verisig 2019 ,		60
358	Learning Q-network for Active Information Acquisition 2019 ,		2
357	Maximum Information Bounds for Planning Active Sensing Trajectories 2019 ,		4
356	Optimal Temporal Logic Planning for Multi-Robot Systems in Uncertain Semantic Maps 2019 ,		4
355	Encrypted Cooperative Control Revisited 2019 ,		10
354	2019 ,		6
353	Finite Sample Analysis of Stochastic System Identification 2019 ,		10
352	Tuning Communication Latency for Distributed Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2019 , 52, 279-284	0.7	2
351	Resilient Structural Stabilizability of Undirected Networks 2019 ,		1
350	Analysis and Design of ActuationSensingCommunication Interconnection Structures Toward Secured/Resilient LTI Closed-Loop Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 667-678	4	8
349	Learning in Wireless Control Systems Over Nonstationary Channels. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 1123-1137	4.8	8
348	. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 129-136	4.2	27

347	. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 312-323	4	19
346	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 238-253	5.9	3
345	. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 175-191	4.8	20
344	Anytime Planning for Decentralized Multirobot Active Information Gathering. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1025-1032	4.2	39
343	Spectral mapping of brain functional connectivity from diffusion imaging. <i>Scientific Reports</i> , 2018 , 8, 1411	4.9	47
342	Random access design for wireless control systems. <i>Automatica</i> , 2018 , 91, 1-9	5.7	15
341	A hybrid stochastic game for secure control of cyber-physical systems. <i>Automatica</i> , 2018 , 93, 55-63	5.7	42
340	. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 709-721	4	13
339	Privacy in Control and Dynamical Systems. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2018 , 1, 309-332	11.8	12
338	Diffusing Private Data Over Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1027-1037	4	12
337	Optimal Resource Allocation for Competitive Spreading Processes on Bilayer Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 298-307	4	35
336	Sensing-Constrained LQG Control 2018 ,		4
335	Learning in Non-Stationary Wireless Control Systems via Newton's Method 2018 ,		4
334	. <i>Proceedings of the IEEE</i> , 2018 , 106, 1655-1679	14.3	18
333	An Information Matrix Approach for State Secrecy 2018 ,		5
332	2018 ,		4
331	Sample Complexity of Networked Control Systems Over Unknown Channels 2018 ,		4
330	Cloud-Based MPC with Encrypted Data 2018 ,		27

329	Structural Target Controllability of Undirected Networks 2018 ,		9
328	A Robust Moment Closure for General Continuous-time Epidemic Processes 2018 ,		2
327	2018 ,		8
326	A Chebyshev-Accelerated Primal-Dual Method for Distributed Optimization 2018 ,		2
325	Minimal Reachability is Hard To Approximate. <i>IEEE Transactions on Automatic Control</i> , 2018 , 1-1	5.9	2
324	Verification of Hybrid Systems 2018 , 1047-1110		18
323	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 50-64	5.9	93
322	Optimal Resource Allocation for Control of Networked Epidemic Models. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 159-169	4	66
321	Coding Schemes for Securing Cyber-Physical Systems Against Stealthy Data Injection Attacks. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 106-117	4	101
320	Resilient Flocking for Mobile Robot Teams. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1039-1046	4.2	82
319	Trade-offs between driving nodes and time-to-control in complex networks. <i>Scientific Reports</i> , 2017 , 7, 39978	4.9	18
318	Structural minimum controllability problem for switched linear continuous-time systems. <i>Automatica</i> , 2017 , 78, 216-222	5.7	11
317	Wireless Control for the IoT 2017 ,		4
316	Data-driven distributionally robust vehicle balancing using dynamic region partitions 2017 ,		22
315	Event-Triggered Communication and Control for Multi-Agent Average Consensus 2017 , 177-207		4
314	Design and Implementation of Attack-Resilient Cyberphysical Systems: With a Focus on Attack-Resilient State Estimators. <i>IEEE Control Systems</i> , 2017 , 37, 66-81	2.9	68
313	Distributed leader selection in switching networks of high-order integrators 2017 ,		1
312	Inference, prediction and control of networked epidemics 2017 ,		6

311	Calibration-free network localization using non-line-of-sight ultra-wideband measurements 2017 ,		18
310	Probabilistic data association for semantic SLAM 2017 ,		159
309	Spectral control of cortical activity 2017 ,		4
308	Quantification on the efficiency gain of automated ridesharing services 2017 ,		1
307	2017 ,		11
306	. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 82-92	4	99
305	The mean square error in Kalman filtering sensor selection is approximately supermodular 2017 ,		11
304	State Estimation with Secrecy against Eavesdroppers. <i>IFAC-PapersOnLine</i> , 2017 , 50, 8385-8392	0.7	25
303	Privacy preserving cloud-based quadratic optimization 2017 ,		6
302	State estimation codes for perfect secrecy 2017 ,		10
301	Differential privacy for dynamical sensitive data 2017 ,		8
300	Linear temporal logic motion planning for teams of underactuated robots using satisfiability modulo convex programming 2017 ,		16
299	Resilient monotone submodular function maximization 2017 ,		17
298	Network design for controllability metrics 2017 ,		7
297	Hierarchical data-driven vehicle dispatch and ride-sharing 2017 ,		8
296	SMC 2017 ,		21
295	Gradual Release of Sensitive Data under Differential Privacy. <i>Journal of Privacy and Confidentiality</i> , 2017 , 7,	1.5	5
294	Minimum number of sensors to ensure observability of physiological systems: A case study 2016 ,		12

293	Control-Aware Random Access Communication 2016,		7
292	Implan: Scalable Incremental Motion Planning for Multi-Robot Systems 2016,		15
291	Estimation of Blood Oxygen Content Using Context-Aware Filtering 2016,		3
290	Analysis and Control of Epidemics: A Survey of Spreading Processes on Complex Networks. <i>IEEE Control Systems</i> , 2016 , 36, 26-46	2.9	304
289	. <i>IEEE Transactions on Control of Network Systems</i> , 2016 , 3, 67-78	4	97
288	Optimal temporal logic planning in probabilistic semantic maps 2016,		10
287	Scalable lazy SMT-based motion planning 2016,		13
286	Coordination of multi-agent systems via asynchronous cloud communication 2016,		6
285	Multi-agent coordination with asynchronous cloud access 2016,		9
284	Decentralized observability with limited communication between sensors 2016,		4
283	Near-optimal sensor scheduling for batch state estimation: Complexity, algorithms, and limits 2016,		17
282	Self-triggered time-varying convex optimization 2016,		15
281	State-based communication design for wireless control systems 2016,		16
280	Online planning for energy-efficient and disturbance-aware UAV operations 2016,		27
279	A column generation approach for optimized routing and coordination of a UAV fleet 2016,		6
278	Privacy-aware quadratic optimization using partially homomorphic encryption 2016,		39
277	2016,		4
276	Diffusing private data over networks 2016,		3

275	Differential privacy in control and network systems 2016,		70
274	2016,		3
273	ATPC. <i>ACM Transactions on Sensor Networks</i> , 2016 , 12, 1-31	2.9	71
272	Taxi Dispatch With Real-Time Sensing Data in Metropolitan Areas: A Receding Horizon Control Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 463-478	4.9	94
271	Localization from semantic observations via the matrix permanent. <i>International Journal of Robotics Research</i> , 2016 , 35, 73-99	5.7	30
270	2016,		6
269	Decentralized active information acquisition: Theory and application to multi-robot SLAM 2015,		53
268	Taxi dispatch with real-time sensing data in metropolitan areas 2015,		14
267	Optimal resource allocation for competing epidemics over arbitrary networks 2015,		13
266	Opportunistic Control Over Shared Wireless Channels. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 3140-3155	5.9	58
265	Distributed resource allocation for control of spreading processes 2015,		8
264	Embedding the Concurrent Autonomous Agent into a Humanoid Robot**This work was supported by CAPES (Coordenaço de Aperfeiçamento de Pessoal de Nıvel Superior, process number 9174-11-7), CNPq (Conselho Nacional de Desenvolvimento Cientıfico e Tecnologico) and FAPESB (Fundaço de Amparo a Pesquisa do Estado de Sao Paulo). <i>IFAC PapersOnLine</i> , 2015 , 48, 209-214	0.7	0
263	Robust taxi dispatch under model uncertainties 2015,		6
262	Smart building 2015,		2
261	Decentralized Channel Access for Wireless Control Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 209-214	0.7	0
260	Team-triggered coordination of robotic networks for optimal deployment 2015,		3
259	2015,		7
258	Optimal resource allocation for containing epidemics on time-varying networks 2015,		3

257	Automatic verification of linear controller software 2015,		9
256	Periodic event-triggered average consensus over directed graphs 2015,		16
255	2015,		6
254	A general class of spreading processes with non-Markovian dynamics 2015,		6
253	2015,		4
252	Minimum number of probes for brain dynamics observability 2015,		13
251	A sublinear algorithm for barrier-certificate-based data-driven model validation of dynamical systems 2015,		5
250	2015,		11
249	Minimum cost constrained input-output and control configuration co-design problem: A structural systems approach 2015,		16
248	An approximately truthful mechanism for electric vehicle charging via joint differential privacy 2015,		5
247	Self-triggered pursuit of a single evader 2015,		5
246	Data-Driven Network Resource Allocation for Controlling Spreading Processes. <i>IEEE Transactions on Network Science and Engineering</i> , 2015 , 2, 127-138	4.9	22
245	Control with random access wireless sensors 2015,		7
244	Attack-resilient state estimation in the presence of noise 2015,		40
243	Distributed Algorithms for Stochastic Source Seeking With Mobile Robot Networks. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	41
242	Minimal actuator placement with optimal control constraints 2015,		21
241	Differentially Private Filtering. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 341-354	5.9	159
240	Optimal Power Management in Wireless Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1495-1510	5.9	92

239	Opportunistic scheduling of control tasks over shared wireless channels 2014,		3
238	Robustness of attack-resilient state estimators 2014,		114
237	The Swarm at the Edge of the Cloud. <i>IEEE Design and Test</i> , 2014 , 31, 8-20	1.4	62
236	Optimal Resource Allocation for Network Protection Against Spreading Processes. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 99-108	4	145
235	Differentially private convex optimization with piecewise affine objectives 2014,		27
234	Attack resilient state estimation for autonomous robotic systems 2014,		32
233	Opportunistic sensor scheduling in wireless control systems 2014,		3
232	Computation of privacy-preserving prices in smart grids 2014,		2
231	Real-time privacy-preserving model-based estimation of traffic flows 2014,		7
230	. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3120-3121	5.9	28
229	Nonmyopic View Planning for Active Object Classification and Pose Estimation. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 1078-1090	6.5	49
228	Joint estimation and localization in sensor networks 2014,		14
227	2014,		9
226	Automated composition of motion primitives for multi-robot systems from safe LTL specifications 2014,		57
225	Coding sensor outputs for injection attacks detection 2014,		37
224	Stability analysis of generalized epidemic models over directed networks 2014,		17
223	Information acquisition with sensing robots: Algorithms and error bounds 2014,		32
222	Differentially private distributed protocol for electric vehicle charging 2014,		7

221	Discrete Abstraction of Stochastic Nonlinear Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2014 , E97.A, 452-458	0.4	1
220	Active Deformable Part Models Inference. <i>Lecture Notes in Computer Science</i> , 2014 , 281-296	0.9	8
219	Optimal power management in wireless control systems 2013 ,		17
218	Event-based Green scheduling of radiant systems in buildings 2013 ,		12
217	Network Integrity in Mobile Robotic Networks. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 3-18	5.9	59
216	Adaptive Deployment of Mobile Robotic Networks. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 654-666	5.9	27
215	Topological Conditions for In-Network Stabilization of Dynamical Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 794-807	14.2	18
214	Optimal vaccine allocation to control epidemic outbreaks in arbitrary networks 2013 ,		74
213	Towards synthesis of platform-aware attack-resilient control systems 2013 ,		5
212	Privacy-preserving release of aggregate dynamic models 2013 ,		5
211	Bio-inspired strategy for control of viral spreading in networks 2013 ,		6
210	Hypothesis testing framework for active object detection 2013 ,		12
209	From Reactive to Cognitive Agents: Extending Reinforcement Learning to Generate Symbolic Knowledge Bases 2013 ,		3
208	Stochastic game approach for replay attack detection 2013 ,		64
207	Power-aware communication for wireless sensor-actuator systems 2013 ,		2
206	2013 ,		1
205	A Study on Run Time Assurance for Complex Cyber Physical Systems 2013 ,		18
204	Resilient Parameter-Invariant Control with Application to Vehicle Cruise Control. <i>Lecture Notes in Control and Information Sciences</i> , 2013 , 197-216	0.5	8

203	A control-theoretic approach to disseminating values and overcoming malicious links in wireless networks. <i>Automatica</i> , 2012 , 48, 2894-2901	5.7	24
202	Stochastic source seeking in complex environments 2012 ,		22
201	Adaptive communication-constrained deployment of mobile robotic networks 2012 ,		3
200	Stochastic Source Seeking by Mobile Robots. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2308-2323	3.9	50
199	Adaptive Communication-Constrained Deployment of Unmanned Vehicle Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2012 , 30, 923-934	14.2	28
198	Bacteria-Powered Microrobots 2012 , 249-275		
197	Stochastic Models and Control of Bacterial Bioactuators and Biomicrobots 2012 , 115-144		
196	Compositional safety analysis using barrier certificates 2012 ,		34
195	Closing the loop 2012 ,		16
194	Time-Triggered Implementations of Dynamic Controllers. <i>Transactions on Embedded Computing Systems</i> , 2012 , 11, 1-24	1.8	6
193	On the existence of compositional barrier certificates 2012 ,		10
192	Differentially private filtering 2012 ,		11
191	Scalable scheduling of building control systems for peak demand reduction 2012 ,		14
190	Green scheduling for radiant systems in buildings 2012 ,		5
189	Sequential composition of robust controller specifications 2012 ,		12
188	Closing the loop: A simple distributed method for control over wireless networks 2012 ,		1
187	Differentially private Kalman filtering 2012 ,		15
186	Approximate Bisimulation: A Bridge Between Computer Science and Control Theory. <i>European Journal of Control</i> , 2011 , 17, 568-578	2.5	80

185	Modeling, control and experimental characterization of microbiorobots. <i>International Journal of Robotics Research</i> , 2011 , 30, 647-658	5.7	63
184	The Wireless Control Network: A New Approach for Control Over Networks. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2305-2318	5.9	99
183	Graph-theoretic connectivity control of mobile robot networks. <i>Proceedings of the IEEE</i> , 2011 , 99, 1525-1549	5.9	233
182	Joint Metering and Conflict Resolution in Air Traffic Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2011 , 34, 1507-1518	2.1	8
181	Distributed control of mobility & routing in networks of robots 2011 ,		7
180	On the Feasibility of Linear Discrete-Time Systems of the Green Scheduling Problem 2011 ,		7
179	Robot deployment with end-to-end communication constraints 2011 ,		2
178	Wireless manipulation of single cells using magnetic microtransporters 2011 ,		25
177	Green scheduling of control systems for peak demand reduction 2011 ,		36
176	Inferring stable genetic networks from steady-state data. <i>Automatica</i> , 2011 , 47, 1113-1122	5.7	43
175	Reputation-based networked control with data-corrupting channels 2011 ,		4
174	Resource constrained LQR control under fast sampling 2011 ,		8
173	Compositional Modeling and Analysis of Multi-Hop Control Networks. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2345-2357	5.9	72
172	Green scheduling: Scheduling of control systems for peak power reduction 2011 ,		15
171	A framework for integrating mobility and routing in mobile communication networks 2011 ,		3
170	Network synthesis for dynamical system stabilization 2011 ,		2
169	Receding-horizon supervisory control of green buildings 2011 ,		19
168	Topological conditions for wireless control networks 2011 ,		17

167	Electrokinetic and optical control of bacterial microrobots. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 035001	2	106
166	The Wireless Control Network: Synthesis and robustness 2010 ,		16
165	Single cell manipulation using ferromagnetic composite microtransporters. <i>Applied Physics Letters</i> , 2010 , 96, 043705	3.4	110
164	Discrete abstraction of stochastic nonlinear systems: A bisimulation function approach 2010 ,		4
163	Path planning for multiple robots: An alternative duality approach 2010 ,		2
162	Distributed control of the Laplacian spectral moments of a network 2010 ,		6
161	The wireless control network: Monitoring for malicious behavior 2010 ,		45
160	A duality approach to path planning for multiple robots 2010 ,		1
159	Sensor-based robot deployment algorithms 2010 ,		6
158	Automatic synthesis of robot controllers for tasks with locative prepositions 2010 ,		12
157	Geometric programming and mechanism design for air traffic conflict resolution 2010 ,		4
156	Mobility & routing control in networks of robots 2010 ,		19
155	Biosensing and actuation for microbiorobots 2010 ,		13
154	Nonholonomic source seeking in switching random fields 2010 ,		7
153	Characterization of novel microsatellite markers in <i>Musa acuminata</i> subsp. <i>burmannicoides</i> , var. <i>Calcutta 4</i> . <i>BMC Research Notes</i> , 2010 , 3, 148	2.3	19
152	Monte-carlo techniques for falsification of temporal properties of non-linear hybrid systems 2010 ,		79
151	Robustness analysis for the certification of digital controller implementations 2010 ,		6
150	Robust stability of multi-hop control networks 2009 ,		4

149	Harnessing bacterial power in microscale actuation 2009 ,		12
148	Multi-vehicle path planning in dynamically changing environments 2009 ,		9
147	A distributed dynamical scheme for fastest mixing Markov chains 2009 ,		2
146	Resource allocation for signal detection with active sensors 2009 ,		2
145	On trajectory optimization for active sensing in Gaussian process models 2009 ,		26
144	Experimental Robotics. <i>Springer Tracts in Advanced Robotics</i> , 2009 ,	0.5	6
143	Genetic network identification using convex programming. <i>IET Systems Biology</i> , 2009 , 3, 155-66	1.4	44
142	Approximate equivalence and synchronization of metric transition systems. <i>Systems and Control Letters</i> , 2009 , 58, 94-101	2.4	21
141	Robustness of temporal logic specifications for continuous-time signals. <i>Theoretical Computer Science</i> , 2009 , 410, 4262-4291	1.1	294
140	Temporal logic motion planning for dynamic robots. <i>Automatica</i> , 2009 , 45, 343-352	5.7	241
139	Hierarchical control system design using approximate simulation. <i>Automatica</i> , 2009 , 45, 566-571	5.7	92
138	Approximations of Stochastic Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1193-1203	3.3	86
137	Hybrid Control for Connectivity Preserving Flocking. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2869-2875	5.9	145
136	Vision-Based Localization for Leader-Follower Formation Control. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 1431-1438	6.5	99
135	Temporal-Logic-Based Reactive Mission and Motion Planning. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 1370-1381	6.5	397
134	Scalable scheduling algorithms for wireless networked control systems 2009 ,		14
133	Modeling and Analysis of Multi-hop Control Networks 2009 ,		31
132	Maintaining Connectivity in Mobile Robot Networks. <i>Springer Tracts in Advanced Robotics</i> , 2009 , 117-126	0.5	36

131	Trajectory Based Verification Using Local Finite-Time Invariance. <i>Lecture Notes in Computer Science</i> , 2009 , 223-236	0.9	19
130	Courteous Cars. <i>IEEE Robotics and Automation Magazine</i> , 2008 , 15, 30-38	3.4	38
129	Dynamic Assignment in Distributed Motion Planning With Local Coordination 2008 , 24, 232-242		56
128	Distributed topology control of dynamic networks 2008 ,		7
127	Distributed multi-robot task assignment and formation control 2008 ,		113
126	From discrete to continuous and back: Abstractions and mesoscopic phenomena in cells 2008 ,		1
125	. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 51-65	5.9	60
124	Galvanotactic Control of Self-Powered Microstructures 2008 ,		1
123	Probabilistic testing for stochastic hybrid systems 2008 ,		7
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11	Controlling Connectivity of Dynamic Graphs		69
10	Approximate Bisimulations for Nonlinear Dynamical Systems		36
9	Bounded Model Checking of Hybrid Dynamical Systems		5
8	Vision-based Localization of Leader-Follower Formations		46
7	Approximate Bisimulations for Constrained Linear Systems		18
6	Hybrid Controllers for Path Planning: A Temporal Logic Approach		75

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