

Ufuk Topcu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7573516/publications.pdf>

Version: 2024-02-01

241
papers

6,066
citations

236925

25
h-index

123424

61
g-index

241
all docs

241
docs citations

241
times ranked

4167
citing authors

#	ARTICLE	IF	CITATIONS
1	Policy Synthesis for Switched Linear Systems With Markov Decision Process Switching. IEEE Transactions on Automatic Control, 2023, 68, 532-539.	5.7	0
2	Expedited Online Learning With Spatial Side Information. IEEE Transactions on Automatic Control, 2023, 68, 1479-1491.	5.7	0
3	Probabilistic Control of Heterogeneous Swarms Subject to Graph Temporal Logic Specifications: A Decentralized and Scalable Approach. IEEE Transactions on Automatic Control, 2023, 68, 2245-2260.	5.7	0
4	Deception in Supervisory Control. IEEE Transactions on Automatic Control, 2022, 67, 738-753.	5.7	8
5	Byzantine-Resilient Distributed Hypothesis Testing With Time-Varying Network Topology. IEEE Transactions on Automatic Control, 2022, 67, 3243-3258.	5.7	3
6	On the Complexity of Sequential Incentive Design. IEEE Transactions on Automatic Control, 2022, 67, 5809-5824.	5.7	0
7	Convex Optimization for Parameter Synthesis in MDPs. IEEE Transactions on Automatic Control, 2022, 67, 6333-6348.	5.7	9
8	Polynomial-Time Algorithms for Multiagent Minimal-Capacity Planning. IEEE Transactions on Control of Network Systems, 2022, 9, 1327-1338.	3.7	1
9	Uncertainty-Aware Signal Temporal Logic Inference. Lecture Notes in Computer Science, 2022, , 61-85.	1.3	3
10	Multiscale heterogeneous optimal lockdown control for COVID-19 using geographic information. Scientific Reports, 2022, 12, 3970.	3.3	0
11	MaxSAT-based temporal logic inference from noisy data. Innovations in Systems and Software Engineering, 2022, 18, 427-442.	2.1	3
12	Synthesis of strategies for autonomous surveillance on adversarial targets. Robotics and Autonomous Systems, 2022, 153, 104084.	5.1	2
13	Reactive task and motion planning for robust whole-body dynamic locomotion in constrained environments. International Journal of Robotics Research, 2022, 41, 812-847.	8.5	7
14	Constrained, Global Optimization of Unknown Functions with Lipschitz Continuous Gradients. SIAM Journal on Optimization, 2022, 32, 1239-1264.	2.0	2
15	Entropy Maximization for Partially Observable Markov Decision Processes. IEEE Transactions on Automatic Control, 2022, 67, 6948-6955.	5.7	1
16	AlgebraicSystems: Compositional Verification for Autonomous System Design. , 2022, , .		0
17	On-the-Fly Control of Unknown Nonlinear Systems With Sublinear Regret. IEEE Transactions on Automatic Control, 2022, , 1-13.	5.7	0
18	Randomized Greedy Sensor Selection: Leveraging Weak Submodularity. IEEE Transactions on Automatic Control, 2021, 66, 199-212.	5.7	27

#	ARTICLE	IF	CITATIONS
19	Strategy Synthesis for POMDPs in Robot Planning via Game-Based Abstractions. IEEE Transactions on Automatic Control, 2021, 66, 1040-1054.	5.7	6
20	Constrained Cross-Entropy Method for Safe Reinforcement Learning. IEEE Transactions on Automatic Control, 2021, 66, 3123-3137.	5.7	10
21	Synthesis of Provably Correct Autonomy Protocols for Shared Control. IEEE Transactions on Automatic Control, 2021, 66, 3251-3258.	5.7	2
22	Differential Privacy on the Unit Simplex via the Dirichlet Mechanism. IEEE Transactions on Information Forensics and Security, 2021, 16, 2326-2340.	6.9	11
23	Active Finite Reward Automaton Inference and Reinforcement Learning Using Queries and Counterexamples. Lecture Notes in Computer Science, 2021, , 115-135.	1.3	3
24	Control strategies for COVID-19 epidemic with vaccination, shield immunity and quarantine: A metric temporal logic approach. PLoS ONE, 2021, 16, e0247660.	2.5	31
25	Minimum-Violation Planning for Autonomous Systems: Theoretical and Practical Considerations. , 2021, , .		13
26	Verifiable autonomy under perceptual limitations. , 2021, , .		0
27	On-The-Fly Control of Unknown Smooth Systems from Limited Data. , 2021, , .		7
28	Online Learning with Implicit Exploration in Episodic Markov Decision Processes. , 2021, , .		1
29	Decentralized Control Synthesis for Air Traffic Management in Urban Air Mobility. IEEE Transactions on Control of Network Systems, 2021, 8, 598-608.	3.7	15
30	Training classifiers for feedback control with safety in mind. Automatica, 2021, 128, 109509.	5.0	5
31	Online Synthesis for Runtime Enforcement of Safety in Multiagent Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 621-632.	3.7	2
32	Minimum-Violation Traffic Management for Urban Air Mobility. Lecture Notes in Computer Science, 2021, , 37-52.	1.3	1
33	Probably Approximately Correct Learning in Adversarial Environments with Temporal Logic Specifications. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	0
34	Distributed Policy Synthesis of Multiagent Systems With Graph Temporal Logic Specifications. IEEE Transactions on Control of Network Systems, 2021, 8, 1799-1810.	3.7	3
35	Control Theory Meets POMDPs: A Hybrid Systems Approach. IEEE Transactions on Automatic Control, 2021, 66, 5191-5204.	5.7	8
36	Learning Linear Temporal Properties from Noisy Data: A MaxSAT-Based Approach. Lecture Notes in Computer Science, 2021, , 74-90.	1.3	11

#	ARTICLE	IF	CITATIONS
37	Fuel in Markov Decision Processes (FiMDP): A Practical Approach to Consumption. Lecture Notes in Computer Science, 2021, 13047, 640-656.	1.3	1
38	Self-Supervised Online Reward Shaping in Sparse-Reward Environments. , 2021, , .		12
39	Decentralized Classification with Assume-Guarantee Planning. , 2021, , .		0
40	From Agile Ground to Aerial Navigation: Learning from Learned Hallucination. , 2021, , .		10
41	Temporal-Logic-Based Intermittent, Optimal, and Safe Continuous-Time Learning for Trajectory Tracking. , 2021, , .		2
42	On Controllability and Persistency of Excitation in Data-Driven Control: Extensions of Willemsâ€™ Fundamental Lemma. , 2021, , .		18
43	Learning-Based, Safety-Constrained Control from Scarce Data via Reciprocal Barriers. , 2021, , .		1
44	A Barrier Pair Method for Safe Human-Robot Shared Autonomy. , 2021, , .		1
45	Entropy Maximization for Markov Decision Processes Under Temporal Logic Constraints. IEEE Transactions on Automatic Control, 2020, 65, 1552-1567.	5.7	17
46	Reactive synthesis with maximum realizability of linear temporal logic specifications. Acta Informatica, 2020, 57, 107-135.	0.5	5
47	Control-Oriented Learning on the Fly. IEEE Transactions on Automatic Control, 2020, 65, 4800-4807.	5.7	6
48	Near-Optimal Reactive Synthesis Incorporating Runtime Information. , 2020, 2020, 10342-10348.		0
49	Differentially Private Controller Synthesis With Metric Temporal Logic Specifications. , 2020, , .		7
50	The Dirichlet Mechanism for Differential Privacy on the Unit Simplex. , 2020, , .		3
51	Convexified contextual optimization for on-the-fly control of smooth systems. , 2020, , .		3
52	Identifying Sparse Low-Dimensional Structures in Markov Chains: A Nonnegative Matrix Factorization Approach. , 2020, , .		2
53	Resilient Distributed Hypothesis Testing with Time-Varying Network Topology. , 2020, , .		3
54	Safe Controller Synthesis for Data-Driven Differential Inclusions. IEEE Transactions on Automatic Control, 2020, 65, 4934-4940.	5.7	16

#	ARTICLE	IF	CITATIONS
55	Scenario-Based Verification of Uncertain MDPs. Lecture Notes in Computer Science, 2020, 12078, 287-305.	1.3	11
56	Active Task-Inference-Guided Deep Inverse Reinforcement Learning. , 2020, , .		12
57	Robust Policy Synthesis for Uncertain POMDPs via Convex Optimization. , 2020, , .		9
58	Privacy Verification and Enforcement via Belief Manipulation. , 2020, , 83-101.		4
59	BP-RRT: Barrier Pair Synthesis for Temporal Logic Motion Planning. , 2020, , .		5
60	Privacy-Preserving Policy Synthesis in Markov Decision Processes. , 2020, , .		7
61	Scalable Synthesis of Minimum-Information Linear-Gaussian Control by Distributed Optimization. , 2020, , .		1
62	Minimizing the Information Leakage Regarding High-Level Task Specifications. IFAC-PapersOnLine, 2020, 53, 15388-15395.	0.9	0
63	Qualitative Controller Synthesis for Consumption Markov Decision Processes. Lecture Notes in Computer Science, 2020, , 421-447.	1.3	6
64	Reachability Games for Optimal Multi-agent Scheduling of Tasks with Variable Durations. Lecture Notes in Computer Science, 2020, , 151-167.	1.3	0
65	Salty-A Domain Specific Language for GR(1) Specifications and Designs. , 2019, , .		4
66	Training Classifiers For Feedback Control. , 2019, , .		6
67	Information-Guided Temporal Logic Inference with Prior Knowledge. , 2019, , .		12
68	Hierarchical Path Planning for Urban On-Demand Air Mobility. , 2019, , .		3
69	Toward Achieving Formal Guarantees for Human-Aware Controllers in Human-Robot Interactions. , 2019, , .		3
70	An Encoder-Decoder Based Approach for Anomaly Detection with Application in Additive Manufacturing. , 2019, , .		17
71	On Submodularity of Quadratic Observation Selection in Constrained Networked Sensing Systems. , 2019, , .		2
72	Online Active Perception for Partially Observable Markov Decision Processes with Limited Budget. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
73	Synthesis of Minimum-Cost Shields for Multi-agent Systems. , 2019, 2019, .		10
74	Incentive Design for Temporal Logic Objectives. , 2019, , .		2
75	Reward-Based Deception with Cognitive Bias. , 2019, , .		1
76	Entropy-Regularized Stochastic Games. , 2019, , .		1
77	Optimal Deceptive and Reference Policies for Supervisory Control. , 2019, , .		5
78	Graph Temporal Logic Inference for Classification and Identification. , 2019, , .		13
79	Unpredictable Planning Under Partial Observability. , 2019, , .		6
80	Switched Linear Systems Meet Markov Decision Processes: Stability Guaranteed Policy Synthesis. , 2019, , .		5
81	Strategy Synthesis for Surveillance-Evasion Games with Learning-Enabled Visibility Optimization. , 2019, , .		1
82	Controller Synthesis for Multi-Agent Systems With Intermittent Communication. A Metric Temporal Logic Approach. , 2019, , .		15
83	Failure-Adverse Closed-Loop Statistical Verification. , 2019, , .		0
84	Structured Synthesis for Probabilistic Systems. Lecture Notes in Computer Science, 2019, , 237-254.	1.3	3
85	Traffic Management for Urban Air Mobility. Lecture Notes in Computer Science, 2019, , 71-87.	1.3	7
86	Cost-Bounded Active Classification Using Partially Observable Markov Decision Processes. , 2019, , .		2
87	Transfer of Temporal Logic Formulas in Reinforcement Learning. , 2019, 28, 4010-4018.		25
88	Barrier Certificates for Assured Machine Teaching. , 2019, , .		4
89	Least Inferable Policies for Markov Decision Processes. , 2019, , .		4
90	Myopic Control of Systems with Unknown Dynamics. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
91	Perception-Aware Point-Based Value Iteration for Partially Observable Markov Decision Processes. , 2019, , .		6
92	Counterexample-Guided Strategy Improvement for POMDPs Using Recurrent Neural Networks. , 2019, , .		12
93	Active Sampling-Based Binary Verification of Dynamical Systems. , 2018, , .		8
94	Compositional and symbolic synthesis of reactive controllers for multi-agent systems. Information and Computation, 2018, 261, 616-633.	0.7	12
95	Verification of Uncertain POMDPs Using Barrier Certificates. , 2018, , .		9
96	Distributed Synthesis Using Accelerated ADMM. , 2018, , .		4
97	Graph-Based Controller Synthesis for Safety-Constrained, Resilient Systems. , 2018, , .		1
98	Transfer Entropy in MDPs with Temporal Logic Specifications. , 2018, , .		4
99	Expedited Learning in MDPs with Side Information. , 2018, , .		6
100	Compositional Analysis of Hybrid Systems Defined Over Finite Alphabets. IFAC-PapersOnLine, 2018, 51, 115-120.	0.9	5
101	Human-in-the-Loop Synthesis for Partially Observable Markov Decision Processes. , 2018, , .		9
102	Stochastic Games with Sensing Costs. , 2018, , .		1
103	Synthesis of Surveillance Strategies via Belief Abstraction. , 2018, , .		18
104	Entropy Maximization for Constrained Markov Decision Processes. , 2018, , .		7
105	Deception in Optimal Control. , 2018, , .		12
106	Inverse Optimal Control with Regular Language Specifications. , 2018, , .		4
107	A Randomized Greedy Algorithm for Near-Optimal Sensor Scheduling in Large-Scale Sensor Networks. , 2018, , .		18
108	Counterexamples for Robotic Planning Explained in Structured Language. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
109	Model Checking for Safe Navigation Among Humans. Lecture Notes in Computer Science, 2018, , 207-222.	1.3	9
110	Control-Oriented Learning of Lagrangian and Hamiltonian Systems. , 2018, , .		9
111	Privacy Verification in POMDPs via Barrier Certificates. , 2018, , .		25
112	Distributed Synthesis of Surveillance Strategies for Mobile Sensors. , 2018, , .		1
113	Imperceptible electrooculography graphene sensor system for humanâ€“robot interface. Npj 2D Materials and Applications, 2018, 2, .	7.9	114
114	Verification of Markov Decision Processes with Risk-Sensitive Measures. , 2018, , .		1
115	Active Sampling for Closed-Loop Statistical Verification of Uncertain Nonlinear Systems. , 2018, , .		5
116	Closed-Loop Statistical Verification of Stochastic Nonlinear Systems Subject to Parametric Uncertainties. , 2018, , .		2
117	Synthesis in pMDPs: A Tale of 1001 Parameters. Lecture Notes in Computer Science, 2018, , 160-176.	1.3	22
118	Maximum Realizability for Linear Temporal Logic Specifications. Lecture Notes in Computer Science, 2018, , 458-475.	1.3	10
119	Differentially Private Distributed Constrained Optimization. IEEE Transactions on Automatic Control, 2017, 62, 50-64.	5.7	165
120	Sequential Convex Programming for the Efficient Verification of Parametric MDPs. Lecture Notes in Computer Science, 2017, , 133-150.	1.3	22
121	Sampling-based Approximate Optimal Control Under Temporal Logic Constraints. , 2017, , .		4
122	Distributed Charging Control of Electric Vehicles Using Online Learning. IEEE Transactions on Automatic Control, 2017, 62, 5289-5295.	5.7	26
123	Intent Prediction in Shared Control with Delayed Feedback. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 733-734.	0.3	2
124	Quantification on the efficiency gain of automated ridesharing services. , 2017, , .		2
125	Shield synthesis. Formal Methods in System Design, 2017, 51, 332-361.	0.8	35
126	Classification error correction: A case study in brain-computer interfacing. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
127	Synthesis of shared control protocols with provable safety and performance guarantees. , 2017, , .		7
128	Robustness of classifier-in-the-loop control systems: A hybrid-systems approach. , 2017, , .		5
129	Safety assessemt based on physically-viable data-driven models. , 2017, , .		8
130	Motion planning under partial observability using game-based abstraction. , 2017, , .		13
131	Learning from Demonstrations with High-Level Side Information. , 2017, , .		18
132	Reduction Techniques for Model Checking and Learning in MDPs. , 2017, , .		5
133	Optimal temporal logic planning in probabilistic semantic maps. , 2016, , .		16
134	Robust optimal policies for Markov decision processes with safety-threshold constraints. , 2016, , .		4
135	High-level planner synthesis for whole-body locomotion in unstructured environments. , 2016, , .		12
136	Region-of-convergence estimation for learning-based adaptive controllers. , 2016, , .		5
137	Risk-averse control of Markov decision processes with γ -regular objectives. , 2016, , .		0
138	Filter-based stochastic abstractions for constrained planning with limited sensing. , 2016, , .		0
139	Human-interpretable diagnostic information for robotic planning systems. , 2016, , .		4
140	Automata theory meets approximate dynamic programming: Optimal control with temporal logic constraints. , 2016, , .		16
141	Event-based information-theoretic privacy: A case study of smart meters. , 2016, , .		8
142	Case Studies in Data-Driven Verification of Dynamical Systems. , 2016, , .		17
143	Manifold-Following Approximate Solution of Completely Hypersensitive Optimal Control Problems. Journal of Optimization Theory and Applications, 2016, 170, 220-242.	1.5	2
144	Characterizing two-timescale nonlinear dynamics using finite-time Lyapunov exponents and subspaces. Communications in Nonlinear Science and Numerical Simulation, 2016, 36, 148-174.	3.3	5

#	ARTICLE	IF	CITATIONS
145	Synthesis of Human-in-the-Loop Control Protocols for Autonomous Systems. IEEE Transactions on Automation Science and Engineering, 2016, 13, 450-462.	5.2	67
146	Automata Theory Meets Barrier Certificates: Temporal Logic Verification of Nonlinear Systems. IEEE Transactions on Automatic Control, 2016, 61, 3344-3355.	5.7	26
147	Synthesis of Joint Control and Active Sensing Strategies Under Temporal Logic Constraints. IEEE Transactions on Automatic Control, 2016, 61, 3464-3476.	5.7	14
148	Synthesis of Shared Autonomy Policies With Temporal Logic Specifications. IEEE Transactions on Automation Science and Engineering, 2016, 13, 7-17.	5.2	18
149	Compositional Synthesis of Reactive Controllers for Multi-agent Systems. Lecture Notes in Computer Science, 2016, , 251-269.	1.3	14
150	Synthesis of Admissible Shields. Lecture Notes in Computer Science, 2016, , 134-151.	1.3	5
151	An Automaton Learning Approach to Solving Safety Games over Infinite Graphs. Lecture Notes in Computer Science, 2016, , 204-221.	1.3	23
152	Safety-Constrained Reinforcement Learning for MDPs. Lecture Notes in Computer Science, 2016, , 130-146.	1.3	44
153	Compositional Synthesis with Parametric Reactive Controllers. , 2016, , .		13
154	Integrating active sensing into reactive synthesis with temporal logic constraints under partial observations. , 2015, , .		1
155	Correct-by-synthesis reinforcement learning with temporal logic constraints. , 2015, , .		30
156	Optimal control in Markov decision processes via distributed optimization. , 2015, , .		8
157	Pareto efficiency in synthesizing shared autonomy policies with temporal logic constraints. , 2015, , .		11
158	Value of forecasts in planning under uncertainty. , 2015, , .		1
159	A sublinear algorithm for barrier-certificate-based data-driven model validation of dynamical systems. , 2015, , .		6
160	An approximately truthful mechanism for electric vehicle charging via joint differential privacy. , 2015, , .		5
161	Computational methods for stochastic control with metric interval temporal logic specifications. , 2015, , .		31
162	Controller synthesis for autonomous systems interacting with human operators. , 2015, , .		36

#	ARTICLE	IF	CITATIONS
163	Convex Optimal Uncertainty Quantification. SIAM Journal on Optimization, 2015, 25, 1368-1387.	2.0	12
164	Specification and Synthesis of Reactive Protocols for Aircraft Electric Power Distribution. IEEE Transactions on Control of Network Systems, 2015, 2, 193-203.	3.7	11
165	Estimator-based reactive synthesis under incomplete information. , 2015, , .		8
166	Exact Convex Relaxation of Optimal Power Flow in Radial Networks. IEEE Transactions on Automatic Control, 2015, 60, 72-87.	5.7	369
167	Strategy Synthesis for Stochastic Games with Multiple Long-Run Objectives. Lecture Notes in Computer Science, 2015, , 256-271.	1.3	19
168	Pattern-Based Refinement of Assume-Guarantee Specifications in Reactive Synthesis. Lecture Notes in Computer Science, 2015, , 501-516.	1.3	16
169	Control Software Synthesis and Validation for a Vehicular Electric Power Distribution Testbed. Journal of Aerospace Information Systems, 2014, 11, 665-678.	1.4	4
170	Optimization-based trajectory generation with linear temporal logic specifications. , 2014, , .		73
171	Resilience to intermittent assumption violations in reactive synthesis. , 2014, , .		31
172	Distributed charging control of electric vehicles using regret minimization. , 2014, , .		6
173	Abstractions and sensor design in partial-information, reactive controller synthesis. , 2014, , .		7
174	On distributed charging control of electric vehicles with power network capacity constraints. , 2014, , .		27
175	Differentially private distributed protocol for electric vehicle charging. , 2014, , .		9
176	Design and Stability of Load-Side Primary Frequency Control in Power Systems. IEEE Transactions on Automatic Control, 2014, 59, 1177-1189.	5.7	367
177	Real-time deferrable load control. Performance Evaluation Review, 2014, 41, 77-79.	0.6	8
178	Differentially private convex optimization with piecewise affine objectives. , 2014, , .		32
179	Optimal Load Control via Frequency Measurement and Neighborhood Area Communication. IEEE Transactions on Power Systems, 2013, 28, 3576-3587.	6.5	107
180	Synthesis of Reactive Switching Protocols From Temporal Logic Specifications. IEEE Transactions on Automatic Control, 2013, 58, 1771-1785.	5.7	114

#	ARTICLE	IF	CITATIONS
181	Convex optimal uncertainty quantification: Algorithms and a case study in energy storage placement for power grids. , 2013, , .		3
182	Counter-strategy guided refinement of GR(1) temporal logic specifications. , 2013, , .		45
183	Automated synthesis of reactive controllers for software-defined networks. , 2013, , .		6
184	Optimal power flow with large-scale storage integration. IEEE Transactions on Power Systems, 2013, 28, 709-717.	6.5	180
185	Optimal power flow in tree networks. , 2013, , .		7
186	Optimal decentralized protocol for electric vehicle charging. IEEE Transactions on Power Systems, 2013, 28, 940-951.	6.5	772
187	Synthesis of Control Protocols for Autonomous Systems. Unmanned Systems, 2013, 01, 21-39.	3.6	38
188	An aircraft electric power testbed for validating automatically synthesized reactive control protocols. , 2013, , .		4
189	Real-time deferrable load control. , 2013, , .		76
190	Exact convex relaxation for optimal power flow in distribution networks. Performance Evaluation Review, 2013, 41, 351-352.	0.6	3
191	Quantitative local L_2 -gain and Reachability analysis for nonlinear systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1115-1135.	3.7	16
192	Towards smart, flexible and efficient power systems: Vision and research challenges. , 2013, , .		3
193	Optimal control of non-deterministic systems for a computationally efficient fragment of temporal logic. , 2013, , .		14
194	Risk-limiting power grid control with an ARMA-based prediction model. , 2013, , .		7
195	Efficient reactive controller synthesis for a fragment of linear temporal logic. , 2013, , .		37
196	Automaton-guided controller synthesis for nonlinear systems with temporal logic. , 2013, , .		38
197	On synthesizing robust discrete controllers under modeling uncertainty. , 2012, , .		32
198	A case study on reactive protocols for aircraft electric power distribution. , 2012, , .		18

#	ARTICLE	IF	CITATIONS
199	Reactive controllers for differentially flat systems with temporal logic constraints. , 2012, , .		10
200	Risk-mitigated optimal power flow for wind powered grids. , 2012, , .		51
201	On the exactness of convex relaxation for optimal power flow in tree networks. , 2012, , .		55
202	Towards formal synthesis of reactive controllers for dexterous robotic manipulation. , 2012, , .		21
203	Robust control of uncertain Markov Decision Processes with temporal logic specifications. , 2012, , .		89
204	Receding Horizon Temporal Logic Planning. IEEE Transactions on Automatic Control, 2012, 57, 2817-2830.	5.7	199
205	Stochastic distributed protocol for electric vehicle charging with discrete charging rate. , 2012, , .		15
206	Swing dynamics as primal-dual algorithm for optimal load control. , 2012, , .		25
207	Optimal placement of energy storage in the grid. , 2012, , .		63
208	Fast load control with stochastic frequency measurement. , 2012, , .		7
209	Optimal design of hybrid energy system with PV/wind turbine/storage: A case study. , 2011, , .		12
210	Distributed Synthesis of Control Protocols for Smart Camera Networks. , 2011, , .		27
211	Optimal decentralized protocol for electric vehicle charging. , 2011, , .		138
212	Optimization-Based Constrained Iterative Learning Control. IEEE Transactions on Control Systems Technology, 2011, 19, 1613-1621.	5.2	96
213	Formal Synthesis of Embedded Control Software: Application to Vehicle Management Systems. , 2011, , .		18
214	Correct, Reactive, High-Level Robot Control. IEEE Robotics and Automation Magazine, 2011, 18, 65-74.	2.0	88
215	Analysis of autocatalytic networks in biology. Automatica, 2011, 47, 1123-1130.	5.0	6
216	Rigorous uncertainty quantification without integral testing. Reliability Engineering and System Safety, 2011, 96, 1085-1091.	8.9	8

#	ARTICLE	IF	CITATIONS
217	TuLiP. , 2011, , .		132
218	Distributed power allocation for vehicle management systems. , 2011, , .		28
219	Help on SOS [Ask the Experts]. IEEE Control Systems, 2010, 30, 18-23.	0.8	30
220	Robust Region-of-Attraction Estimation. IEEE Transactions on Automatic Control, 2010, 55, 137-142.	5.7	94
221	A simple optimal power flow model with energy storage. , 2010, , .		129
222	Compositional stability analysis based on dual decomposition. , 2009, , .		17
223	Linearized analysis versus optimization-based nonlinear analysis for nonlinear systems. , 2009, , .		14
224	Receding horizon temporal logic planning for dynamical systems. , 2009, , .		97
225	Local robust performance analysis for nonlinear dynamical systems. , 2009, , .		12
226	Parameter estimation with expected and residual-at-risk criteria. Systems and Control Letters, 2009, 58, 39-46.	2.3	12
227	Local Stability Analysis for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 1042-1047.	5.7	44
228	Parameter-Dependent Lyapunov Functions for Linear Systems With Constant Uncertainties. IEEE Transactions on Automatic Control, 2009, 54, 2410-2416.	5.7	7
229	Stability region estimation for systems with unmodeled dynamics. , 2009, , .		5
230	Local stability analysis using simulations and sum-of-squares programming. Automatica, 2008, 44, 2669-2675.	5.0	185
231	Multistage investments with recourse: A single-asset case with transaction costs. , 2008, , .		4
232	Simulation-aided reachability and local gain analysis for nonlinear dynamical systems. , 2008, , .		10
233	Local stability analysis for uncertain nonlinear systems using a branch-and-bound algorithm. , 2008, , .		1
234	Parameter estimation with expected and residual-at-risk criteria. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
235	Minimum-Fuel Powered Descent for Mars Pinpoint Landing. Journal of Spacecraft and Rockets, 2007, 44, 324-331.	1.9	58
236	Stability region analysis for uncertain nonlinear systems. , 2007, , .		5
237	Stability Region Analysis Using Simulations and Sum-of-Squares Programming. Proceedings of the American Control Conference, 2007, , .	0.0	28
238	Using Lyapunov Vectors and Dichotomy to Solve Hyper-Sensitive Optimal Control Problems. , 2006, , .		3
239	Adapting to the Behavior of Environments with Bounded Memory. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 52-66.	0.8	0
240	Optimal Control with Weighted Average Costs and Temporal Logic Specifications. , 0, , .		18
241	Probably Approximately Correct MDP Learning and Control With Temporal Logic Constraints. , 0, , .		76