Maryam Kamgarpour

List of Publications by Year
in descending order

49 papers	749 citations	687363 13 h-index	610901 24 g-index
49 all docs	49 docs citations	49 times ranked	672 citing authors

#	Article	IF	Citations
1	Robust optimal control with adjustable uncertainty sets. Automatica, 2017, 75, 249-259.	5.0	86
2	Nash and Wardrop Equilibria in Aggregative Games With Coupling Constraints. IEEE Transactions on Automatic Control, 2019, 64, 1373-1388.	5.7	81
3	On optimal control of non-autonomous switched systems with a fixed mode sequence. Automatica, 2012, 48, 1177-1181.	5.0	68
4	A Hybrid Optimal Control Approach to Fuel-Efficient Aircraft Conflict Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1826-1838.	8.0	35
5	A stochastic games framework for verification and control of discrete time stochastic hybrid systems. Automatica, 2013, 49, 2665-2674.	5.0	34
6	Robust aircraft trajectory planning under uncertain convective environments with optimal control and rapidly developing thunderstorms. Aerospace Science and Technology, 2019, 89, 445-459.	4.8	32
7	Learning Generalized Nash Equilibria in a Class of Convex Games. IEEE Transactions on Automatic Control, 2019, 64, 1426-1439.	5.7	31
8	On maximizing safety in stochastic aircraft trajectory planning with uncertain thunderstorm development. Aerospace Science and Technology, 2018, 79, 543-553.	4.8	30
9	An Inputâ€“Output Parametrization of Stabilizing Controllers: Amidst Youla and System Level Synthesis. , 2019, 3, 1014-1019.		30
10	Exploring the Vickrey-Clarke-Groves Mechanism for Electricity Markets * *This work is partially funded under M. Kamgarpourâ€™s European Union ERC Starting Grant CONENE.. IFAC-PapersOnLine, 2017, 50, 189-194.	0.9	26
11	Approximate dynamic programming for stochastic reachability. , 2013, , .		23
12	On the Equivalence of Youla, System-Level, and Inputâ€“Output Parameterizations. IEEE Transactions on Automatic Control, 2021, 66, 413-420.	5.7	18
13	Sequential Linear Quadratic Optimal Control for Nonlinear Switched Systems. IFAC-PapersOnLine, 2017, 50, 1463-1469.	0.9	17
14	Sparsity Invariance for Convex Design of Distributed Controllers. IEEE Transactions on Control of Network Systems, 2020, 7, 1836-1847.	3.7	17
15	Strengthening the Group: Aggregated Frequency Reserve Bidding With ADMM. IEEE Transactions on Smart Grid, 2019, 10, 3860-3869.	9.0	14
16	Learning Nash Equilibria in Monotone Games. , 2019, , .		14
17	Designing Coalition-Proof Reverse Auctions Over Continuous Goods. IEEE Transactions on Automatic Control, 2019, 64, 4803-4810.	5.7	12
18	Core-Selecting Mechanisms in Electricity Markets. IEEE Transactions on Smart Grid, 2020, 11, 2604-2614.	9.0	11

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19	Actuator Placement Under Structural Controllability Using Forward and Reverse Greedy Algorithms. IEEE Transactions on Automatic Control, 2021, 66, 5845-5860.	5.7	11
20	Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. IEEE Transactions on Control of Network Systems, 2020, 7, 614-626.	3.7	10
21	Performance guarantees for greedy maximization of non-submodular controllability metrics. , 2019, , .		10
22	Chance-Constrained Trajectory Planning With Multimodal Environmental Uncertainty. , 2023, 7, 13-18.		10
23	Stochastic system controller synthesis for reachability specifications encoded by random sets. Automatica, 2013, 49, 2906-2910.	5.0	8
24	Control synthesis for stochastic systems given automata specifications defined by stochastic sets. Automatica, 2017, 76, 177-182.	5.0	8
25	First Order Methods For Globally Optimal Distributed Controllers Beyond Quadratic Invariance. , 2020, , .		8
26	Game theoretic analysis of electricity market auction mechanisms. , 2017, , .		7
27	Informed scenario-based RRTâˆ— for aircraft trajectory planning under ensemble forecasting of thunderstorms. Transportation Research Part C: Emerging Technologies, 2021, 129, 103232.	7.6	7
28	On infinite dimensional linear programming approach to stochastic control * *This research is partially supported by M. Kamgarpourâ€™s European Union ERC Starting Grant, CONENE and by T. Summersâ€™ the US National Science Foundation under grant CNS-1566127.. IFAC-PapersOnLine, 2017, 50, 6148-6153.	0.9	6
29	Robust control of constrained systems given an information structure. , 2017, , .		6
30	Scalable analysis of linear networked systems via chordal decomposition. , 2018, , .		6
31	From Uncertainty Data to Robust Policies for Temporal Logic Planning. , 2018, , .		6
32	Unified Approach to Convex Robust Distributed Control Given Arbitrary Information Structures. IEEE Transactions on Automatic Control, 2019, 64, 5199-5206.	5.7	6
33	Exploiting structure of chance constrained programs via submodularity. Automatica, 2019, 105, 89-95.	5.0	6
34	Actuator Placement for Optimizing Network Performance under Controllability Constraints. , 2019, , .		6
35	Exploiting Weak Supermodularity for Coalition-Proof Mechanisms. , 2018, , .		5
36	Optimizing HVDC Grid Expansion and Control for Enhancing DC Stability. , 2018, , .		5

#	Article	IF	Citations
37	Trajectory planning under environmental uncertainty with finite-sample safety guarantees. Automatica, 2021, 131, 109754.	5.0	5
38	Safe Motion Planning Against Multimodal Distributions Based on a Scenario Approach. , 2022, 6, 1142-1147.		5
39	System-level, inputâ€“output and new parameterizations of stabilizing controllers, and their numerical computation. Automatica, 2022, 140, 110211.	5.0	4
40	Robust Control Policies Given Formal Specifications in Uncertain Environments. , 2017, 1, 20-25.		3
41	Information Structure Design in Team Decision Problems. IFAC-PapersOnLine, 2017, 50, 2530-2535.	0.9	3
42	Payoff-Based Approach to Learning Nash Equilibria in Convex Games * *This research is partially supported by M. Kamgarpourâ€™s European Union ERC Starting Grant, CONENE.. IFAC-PapersOnLine, 2017, 50, 1508-1513.	0.9	3
43	Safe Mission Planning under Dynamical Uncertainties. , 2020, , .		3
44	A comment on performance guarantees of a greedy algorithm for minimizing a supermodular set function on comatroid. European Journal of Operational Research, 2021, 290, 401-403.	5.7	3
45	Performance guarantees of forward and reverse greedy algorithms for minimizing nonsupermodular nonsubmodular functions on a matroid. Operations Research Letters, 2021, 49, 855-861.	0.7	3
46	Enabling inter-area reserve exchange through stable benefit allocation mechanisms. Omega, 2022, 113, 102711.	5.9	3
47	Optimal Linear Controller for Minimizing DC Voltage Oscillations in MMC-Based Offshore Multiterminal HVDC Grids. IEEE Access, 2021, 9, 98731-98745.	4.2	2
48	Reducing HVDC Network Oscillations Considering Wind Intermittency Through Optimized Grid Expansion Decision. , 2018, , .		1
49	A market-based approach for enabling inter-area reserve exchange. Operations Research Letters, 2021, 49, 501-506.	0.7	1