

Yuxiao Chen

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

529
citations

1039880

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24
docs citations

24
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Correct-by-Construction Adaptive Cruise Control: Two Approaches. IEEE Transactions on Control Systems Technology, 2016, 24, 1294-1307.	3.2	114
2	Obstacle Avoidance for Low-Speed Autonomous Vehicles With Barrier Function. IEEE Transactions on Control Systems Technology, 2018, 26, 194-206.	3.2	113
3	Guaranteed Obstacle Avoidance for Multi-Robot Operations With Limited Actuation: A Control Barrier Function Approach. , 2021, 5, 127-132.		71
4	Preliminary results on correct-by-construction control software synthesis for adaptive cruise control. , 2014, , .		28
5	Data-Driven Computation of Minimal Robust Control Invariant Set. , 2018, , .		26
6	Interactive Multi-Modal Motion Planning With Branch Model Predictive Control. IEEE Robotics and Automation Letters, 2022, 7, 5365-5372.	3.3	23
7	Onboard Safety Guarantees for Racing Drones: High-Speed Geofencing With Control Barrier Functions. IEEE Robotics and Automation Letters, 2022, 7, 2897-2904.	3.3	20
8	Data-Driven Safety-Critical Control: Synthesizing Control Barrier Functions With Koopman Operators. , 2021, 5, 2012-2017.		18
9	Fast Trajectory Planning and Robust Trajectory Tracking for Pedestrian Avoidance. IEEE Access, 2017, 5, 9304-9317.	2.6	16
10	Decentralized Task and Path Planning for Multi-Robot Systems. IEEE Robotics and Automation Letters, 2021, 6, 4337-4344.	3.3	15
11	Enhancing the Performance of a Safe Controller Via Supervised Learning for Truck Lateral Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	12
12	Safety-Critical Control Synthesis for Network Systems With Control Barrier Functions and Assume-Guarantee Contracts. IEEE Transactions on Control of Network Systems, 2021, 8, 487-499.	2.4	11
13	System Level Synthesis with State and Input Constraints. , 2019, , .		10
14	Data-Driven Computation of Robust Control Invariant Sets With Concurrent Model Selection. IEEE Transactions on Control Systems Technology, 2022, 30, 495-506.	3.2	10
15	Optimal Safe Controller Synthesis: A Density Function Approach. , 2020, , .		10
16	Validating Noncooperative Control Designs Through a Lyapunov Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 527-539.	3.2	9
17	Compositional Set Invariance in Network Systems with Assume-Guarantee Contracts. , 2019, , .		8
18	Modelling of uncertain reactive human driving behavior: a classification approach. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Online Decentralized Decision Making With Inequality Constraints: An ADMM approach. , 2021, 5, 2156-2161.		4
20	Correct by construction design of autonomous vehicles through a barrier function method. , 2017, , .		3
21	Density Functions for Guaranteed Safety on Robotic Systems. , 2020, , .		2
22	Decentralized chassis control with guaranteed performance: A lyapunov approach. , 2017, , .		0
23	Online decentralized decision making with inequality constraints: An ADMM approach. , 2021, , .		0
24	Sparsity Preserving Discretization With Error Bounds. IFAC-PapersOnLine, 2020, 53, 3204-3209.	0.5	0