Andreas A Malikopoulos

List of Publications by Year
in descending order

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92	2,990	304368	395343
papers	citations	22 h-index	33 g-index

92	92	92	1726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Survey on the Coordination of Connected and Automated Vehicles at Intersections and Merging at Highway On-Ramps. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1066-1077.	4.7	564
2	Automated and Cooperative Vehicle Merging at Highway On-Ramps. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 780-789.	4.7	304
3	A decentralized energy-optimal control framework for connected automated vehicles at signal-free intersections. Automatica, 2018, 93, 244-256.	3.0	255
4	Supervisory Power Management Control Algorithms for Hybrid Electric Vehicles: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1869-1885.	4.7	184
5	Optimal control and coordination of connected and automated vehicles at urban traffic intersections. , 2016, , .		135
6	A modeling framework for optimal energy management of a residential building. Energy and Buildings, 2016, 130, 55-63.	3.1	84
7	Impact of Partial Penetrations of Connected and Automated Vehicles on Fuel Consumption and Traffic Flow. IEEE Transactions on Intelligent Vehicles, 2018, 3, 453-462.	9.4	80
8	Optimal Control for Speed Harmonization of Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2405-2417.	4.7	68
9	Online Optimal Control of Connected Vehicles for Efficient Traffic Flow at Merging Roads. , 2015, , .		66
10	Optimal Control of Connected and Automated Vehicles at Roundabouts: An Investigation in a Mixed-Traffic Environment. IFAC-PapersOnLine, 2018, 51, 73-78.	0.5	61
11	Optimal time trajectory and coordination for connected and automated vehicles. Automatica, 2021, 125, 109469.	3.0	61
12	An Optimization Framework for Driver Feedback Systems. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 955-964.	4.7	51
13	Enhanced Mobility With Connectivity and Automation: A Review of Shared Autonomous Vehicle Systems. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 87-102.	2.6	46
14	Decentralized optimal control for connected automated vehicles at intersections including left and right turns. , 2017, , .		43
15	Decentralized optimal coordination of connected and automated vehicles for multiple traffic scenarios. Automatica, 2020, 117, 108958.	3.0	39
16	A Multiobjective Optimization Framework for Online Stochastic Optimal Control in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2016, 24, 440-450.	3.2	37
17	Real-Time Self-Learning Optimization of Diesel Engine Calibration. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	0.5	34
18	Impact of Connectivity on Energy Consumption andÂBattery Life for Electric Vehicles. IEEE Transactions on Intelligent Vehicles, 2021, 6, 14-23.	9.4	32

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19	An overview on optimal flocking. Annual Reviews in Control, 2021, 51, 88-99.	4.4	32
20	Optimal Coordination of Platoons of Connected and Automated Vehicles at Signal-Free Intersections. IEEE Transactions on Intelligent Vehicles, 2022, 7, 186-197.	9.4	31
21	Online Identification and Stochastic Control for Autonomous Internal Combustion Engines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	30
22	Simulation to scaled city. , 2019, , .		29
23	Optimal Control of Connected and Automated Vehicles at Multiple Adjacent Intersections. IEEE Transactions on Control Systems Technology, 2022, 30, 972-984.	3.2	29
24	A Scaled Smart City for Experimental Validation of Connected and Automated Vehicles. IFAC-PapersOnLine, 2018, 51, 130-135.	0.5	27
25	Impact of Component Sizing in Plug-In Hybrid Electric Vehicles for Energy Resource and Greenhouse Emissions Reduction1. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, .	1.4	26
26	Demonstration of a time-efficient mobility system using a scaled smart city. Vehicle System Dynamics, 2020, 58, 787-804.	2.2	25
27	Optimization of driving styles for fuel economy improvement. , 2012, , .		24
28	Optimal routing of electric vehicles in networks with charging nodes: A dynamic programming approach. , 2014, , .		24
29	Optimal control of Connected Automated Vehicles at urban traffic intersections: A feasibility enforcement analysis. , 2017, , .		23
30	Decentralized Optimal Control of Connected and Automated Vehicles in a Corridor. , 2018, , .		23
31	A Platoon Formation Framework in a Mixed Traffic Environment. , 2022, 6, 1370-1375.		22
32	A Duality Framework for Stochastic Optimal Control of Complex Systems. IEEE Transactions on Automatic Control, 2016, 61, 2756-2765.	3.6	21
33	Stochastic optimal control for series hybrid electric vehicles. , 2013, , .		19
34	Impact of connected and automated vehicles on traffic flow. , 2017, , .		19
35	Zero-Shot Autonomous Vehicle Policy Transfer: From Simulation to Real-World via Adversarial Learning. , 2020, , .		19
36	Optimal Engine Calibration for Individual Driving Styles. , 2008, , .		16

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37	Experimental Validation of a Real-Time Optimal Controller for Coordination of CAVs in a Multi-Lane Roundabout. , 2020, , .		16
38	A Learning Algorithm for Optimal Internal Combustion Engine Calibration in Real Time. , 2007, , 91.		15
39	A Closed-Form Analytical Solution for Optimal Coordination of Connected and Automated Vehicles. , 2019, , .		15
40	A Decentralized Time- and Energy-Optimal Control Framework for Connected Automated Vehicles: From Simulation to Field Test. , 0, , .		15
41	Time-Optimal Coordination for Connected and Automated Vehicles at Adjacent Intersections. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13330-13345.	4.7	15
42	A Real-Time Computational Learning Model for Sequential Decision-Making Problems Under Uncertainty. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	14
43	Energy-Optimal Coordination of Connected and Automated Vehicles at Multiple Intersections. , 2019, , .		14
44	Simulation of an Integrated Starter Alternator (ISA) System for the HMMWV. , 0, , .		13
45	A multiobjective optimization framework for stochastic control of complex systems. , 2015, , .		12
46	A Consumer-Oriented Control Framework for Performance Analysis in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 1451-1464.	3.2	12
47	Convergence Properties of a Computational Learning Model for Unknown Markov Chains. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	11
48	Centralized stochastic optimal control of complex systems. , 2015, , .		11
49	An Optimal Coordination Framework for Connected and Automated Vehicles in two Interconnected Intersections. , 2019, , .		11
50	Optimal Vehicle Dynamics and Powertrain Control for Connected and Automated Vehicles. , 2019, , .		11
51	Conditions to provable system-wide optimal coordination of connected and automated vehicles. Automatica, 2021, 131, 109751.	3.0	11
52	A Priority-Aware Replanning and Resequencing Framework for Coordination of Connected and Automated Vehicles. , 2022, 6, 1772-1777.		11
53	Optimal Path Planning for Connected and Automated Vehicles at Urban Intersections. , 2019, , .		10
54	Constraint-Driven Optimal Control of Multiagent Systems: A Highway Platooning Case Study. , 2022, 6, 1754-1759.		10

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55	Application of optimal production control theory for home energy management in a micro grid. , 2016, , .		9
56	Decentralized Cooperative Merging of Platoons of Connected and Automated Vehicles at Highway On-Ramps. , 2021, , .		9
57	Energy impact of different penetrations of connected and automated vehicles. , 2016, , .		9
58	The Multi-objective Dynamic Traveling Salesman Problem: Last Mile Delivery with Unmanned Aerial Vehicles Assistance. , 2019, , .		9
59	Equilibrium control policies for Markov chains. , 2011, , .		8
60	Social Media and Misleading Information in a Democracy: A Mechanism Design Approach. IEEE Transactions on Automatic Control, 2022, 67, 2633-2639.	3.6	8
61	An Optimization Model for Plug-In Hybrid Electric Vehicles. , 2011, , .		7
62	Decentralized Stochastic Control in Partially Nested Information Structures. IFAC-PapersOnLine, 2019, 52, 97-102.	0.5	7
63	An Optimal Control Approach to Flocking. , 2020, , .		6
64	An energy-optimal framework for assignment and trajectory generation in teams of autonomous agents. Systems and Control Letters, 2020, 138, 104670.	1.3	6
65	Real-Time, Self-Learning Optimization of Diesel Engine Calibration. , 2007, , .		6
66	A State-Space Representation Model and Learning Algorithm for Real-Time Decision-Making Under Uncertainty. , 2007, , .		6
67	A Game-Theoretic Analysis of the Social Impact of Connected and Automated Vehicles. , 2020, , .		6
68	Combined Optimal Routing and Coordination of Connected and Automated Vehicles. , 2022, 6, 2749-2754.		6
69	Thermal management system modelling and component sizing for heavy duty series hybrid electric vehicles. International Journal of Heavy Vehicle Systems, 2011, 18, 272.	0.1	5
70	Multi-disciplinary decision making and optimization for hybrid electric propulsion systems. , 2014, , .		5
71	The average cost of Markov chains subject to total variation distance uncertainty. Systems and Control Letters, 2018, 120, 29-35.	1.3	5
72	On the Traffic Impacts of Optimally Controlled Connected and Automated Vehicles. , 2019, , .		5

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73	Conditions for State and Control Constraint Activation in Coordination of Connected and Automated Vehicles. , 2020, , .		5
74	Energy-Optimal Motion Planning for Agents: Barycentric Motion and Collision Avoidance Constraints. , 2021, , .		5
75	Social Resource Allocation in a Mobility System with Connected and Automated Vehicles: A Mechanism Design Problem. , 2020, , .		5
76	Concurrent Optimization of Vehicle Dynamics and Powertrain Operation Using Connectivity and Automation. , 0, , .		5
77	Design and Stability Analysis of a Shared Mobility Market. , 2021, , .		5
78	A Decentralized Control Framework for Energy-Optimal Goal Assignment and Trajectory Generation. , 2019, , .		4
79	Structural Results for Decentralized Stochastic Control with a Word-of-Mouth Communication. , 2020, , .		4
80	Beyond Reynolds: A Constraint-Driven Approach to Cluster Flocking. , 2020, , .		4
81	A Hysteretic Q-learning Coordination Framework for Emerging Mobility Systems in Smart Cities. , 2021, , .		4
82	Pareto Efficient Policy for Supervisory Power Management Control. , 2015, , .		3
83	An overview of driver feedback systems for efficiency and safety. , 2016, , .		3
84	A Dynamic Program for a Team of Two Agents with Nested Information. , 2021, , .		3
85	Home energy management based on optimal production control scheduling with unknown regime switching. , 2017, , .		2
86	Characterization of the New Class of Driving Cycles for Connected and Automated Vehicles. , 2018, , .		2
87	Convergence Properties of a Computational Learning Model for Unknown Markov Chains. , 2008, , .		1
88	A Rollout Control Algorithm for Discrete-Time Stochastic Systems. , 2010, , .		1
89	Impact of Connected and Automated Vehicles in a Corridor. , 2020, , .		1
90	Energy-Optimal Goal Assignment of Multi-Agent System with Goal Trajectories in Polynomials. , 2021, , .		1

#	Article	IF	Citations
91	Online Identification of Power Required for Self-Sustainability of the Battery in Hybrid Electric Vehicles. , 2014, , .		0
92	Guest Editorial Special Issue on Big Data and AI for Computational Transportation in the Cyberâ€“Physicalâ€“Social Space. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7887-7890.	4.7	0