

Ardalan Vahidi

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3194554/ardalan-vahidi-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

3,014
citations

22
h-index

54
g-index

65
ext. papers

3,706
ext. citations

3.9
avg, IF

5.98
L-index

#	Paper	IF	Citations
56	MPC-Based Connected Cruise Control with Multiple Human Predecessors 2021 ,		3
55	Energy and flow effects of optimal automated driving in mixed traffic: Vehicle-in-the-loop experimental results. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 130, 103168	8.4	3
54	Modeling the Recovery of WIn the Moderate to Heavy Exercise Intensity Domain. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 2646-2654	1.2	5
53	Feedbackless Relaying for Enhancing Reliability of Connected Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4621-4634	6.8	3
52	Detailed Case Studies. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2020 , 241-273	0.3	
51	Energy Saving Potentials of CAVs. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2020 , 1-31	0.3	2
50	Information and Collaboration Levels in Vehicular Strings: A Comparative Study. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13822-13829	0.7	3
49	Microsimulation of energy and flow effects from optimal automated driving in mixed traffic. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 120, 102806	8.4	9
48	Receding Horizon Motion Planning for Automated Lane Change and Merge Using Monte Carlo Tree Search and Level-K Game Theory 2020 ,		3
47	Multi-Agent Control of Lane-Switching Automated Vehicles for Energy Efficiency 2020 ,		5
46	Energy-Efficient Driving of Road Vehicles. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2020 ,	0.3	15
45	Eco-Driving Practical Implementation. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2020 , 215-239	0.3	
44	A Vehicle-in-the-Loop (VIL) verification of an all-autonomous intersection control scheme. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 107, 193-210	8.4	9
43	Fundamentals of energy efficient driving for combustion engine and electric vehicles: An optimal control perspective. <i>Automatica</i> , 2019 , 103, 558-572	5.7	53
42	Automated Vehicles in Hazardous Merging Traffic: A Chance-Constrained Approach. <i>IFAC-PapersOnLine</i> , 2019 , 52, 218-223	0.7	5
41	Probabilistic Anticipation and Control in Autonomous Car Following. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 30-38	4.8	22
40	Heuristic Versus Optimal Charging of Supercapacitors, Lithium-Ion, and Lead-Acid Batteries: An Efficiency Point of View. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 167-180	4.8	35

39	Mixed-Integer Linear Programming for Optimal Scheduling of Autonomous Vehicle Intersection Crossing. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 287-299	5	69
38	Modeling the Expenditure and Recovery of Anaerobic Work Capacity in Cycling. <i>Proceedings (mdpi)</i> , 2018 , 2, 219	0.3	3
37	To Merge Early or Late: Analysis of Traffic Flow and Energy Impact in a Reduced Lane Scenario 2018 ,		2
36	Predictively Coordinated Vehicle Acceleration and Lane Selection Using Mixed Integer Programming 2018 ,		8
35	Impact of Model Simplification on Optimal Control of Combustion Engine and Electric Vehicles Considering Control Input Constraints 2018 ,		2
34	Efficient and Collision-Free Anticipative Cruise Control in Randomly Mixed Strings. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 439-452	5	27
33	Energy saving potentials of connected and automated vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 95, 822-843	8.4	164
32	Multi-Intersection Traffic Management for Autonomous Vehicles via Distributed Mixed Integer Linear Programming 2018 ,		11
31	Fast Model Predictive Control-Based Fuel Efficient Control Strategy for a Group of Connected Vehicles in Urban Road Conditions. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 760-767	4.8	80
30	Optimal scheduling of autonomous vehicle arrivals at intelligent intersections via MILP 2017 ,		41
29	Vehicle-in-the-loop (VIL) verification of a smart city intersection control scheme for autonomous vehicles 2017 ,		19
28	Quantifying the impact of limited information and control robustness on connected automated platoons 2017 ,		11
27	Ultracapacitor power assist with preview-based energy management for reducing fuel consumption of heavy vehicles. <i>International Journal of Powertrains</i> , 2016 , 5, 375	0.5	3
26	Reconstructing maximum likelihood trajectory of probe vehicles between sparse updates. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 65, 16-30	8.4	21
25	Optimal speed advisory for connected vehicles in arterial roads and the impact on mixed traffic. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 69, 548-563	8.4	129
24	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 870-881	6.1	19
23	Supercapacitor Electrical and Thermal Modeling, Identification, and Validation for a Wide Range of Temperature and Power Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1574-1585	8.9	71
22	A fuel economic model predictive control strategy for a group of connected vehicles in urban roads 2015 ,		32

21	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 2516-2523	6.1	77
20	Optimal pacing in a cycling time-trial considering cyclist's fatigue dynamics 2013 ,		17
19	Route Preview in Energy Management of Plug-in Hybrid Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 546-553	4.8	142
18	Optimal charging of ultracapacitors during regenerative braking 2012 ,		14
17	MPC-Based Energy Management of a Power-Split Hybrid Electric Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 593-603	4.8	423
16	Model predictive control of a hybrid electric powertrain with combined battery and ultracapacitor energy storage system. <i>International Journal of Powertrains</i> , 2012 , 1, 351	0.5	2
15	Ultracapacitor Assisted Powertrains: Modeling, Control, Sizing, and the Impact on Fuel Economy. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 576-589	4.8	74
14	Predictive Cruise Control With Probabilistic Constraints for Eco Driving 2011 ,		21
13	Predictive Cruise Control: Utilizing Upcoming Traffic Signal Information for Improving Fuel Economy and Reducing Trip Time. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 707-714	4.8	380
12	Heavy vehicle fuel economy improvement using ultracapacitor power assist and preview-based MPC energy management 2011 ,		7
11	Nonlinear Model Predictive Control for power-split Hybrid Electric Vehicles 2010 ,		27
10	Predictive Control of Voltage and Current in a Fuel Cell-Ultracapacitor Hybrid. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1954-1963	8.9	75
9	Role of Terrain Preview in Energy Management of Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 1139-1147	6.8	127
8	A Two-Stage Lyapunov-Based Estimator for Estimation of Vehicle Mass and Road Grade. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3177-3185	6.8	61
7	Ultracapacitor assisted powertrains: Modeling, control, sizing, and the impact on fuel economy 2008 ,		16
6	A review of the main parameters influencing long-term performance and durability of PEM fuel cells. <i>Journal of Power Sources</i> , 2008 , 180, 1-14	8.9	561
5	A Decentralized Model Predictive Control Approach to Power Management of a Fuel Cell-Ultracapacitor Hybrid. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	16
4	Constraint Handling in a Fuel Cell System: A Fast Reference Governor Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 86-98	4.8	56

- 3 Adaptive model predictive control for co-ordination of compression and friction brakes in heavy duty vehicles. *International Journal of Adaptive Control and Signal Processing*, **2006**, 20, 581-598 2.8 5
- 2 Predictive Time-Delay Control of Vehicle Suspensions. *JVC/Journal of Vibration and Control*, **2001**, 7, 1195-1211₁₄
- 1 Designing a General Neurocontroller for Water Towers. *Journal of Engineering Mechanics - ASCE*, **2000**, 126, 582-587 2.4 8