

Nasser L Azad

List of Publications by Year in descending order

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50
papers

1,049
citations

516710

16
h-index

454955

30
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52
all docs

52
docs citations

52
times ranked

985
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological Adaptive Cruise Controller for Plug-In Hybrid Electric Vehicles Using Nonlinear Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 113-122.	8.0	149
2	Real-Time Nonlinear Model Predictive Control of a Battery-Supercapacitor Hybrid Energy Storage System in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 9678-9688.	6.3	134
3	Comparison of Deep Reinforcement Learning and Model Predictive Control for Adaptive Cruise Control. IEEE Transactions on Intelligent Vehicles, 2021, 6, 221-231.	12.7	98
4	A Distributed Reference Governor Approach to Ecological Cooperative Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1496-1507.	8.0	56
5	Adaptive Tube-Based Nonlinear MPC for Economic Autonomous Cruise Control of Plug-In Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 11390-11401.	6.3	53
6	Optimally pruned extreme learning machine with ensemble of regularization techniques and negative correlation penalty applied to automotive engine coldstart hydrocarbon emission identification. Neurocomputing, 2014, 131, 143-156.	5.9	50
7	Real-time predictive control strategy for a plug-in hybrid electric powertrain. Mechatronics, 2015, 29, 13-27.	3.3	43
8	Vehicle speed prediction via a sliding-window time series analysis and an evolutionary least learning machine: A case study on San Francisco urban roads. Engineering Science and Technology, an International Journal, 2015, 18, 150-162.	3.2	37
9	A robust safety-oriented autonomous cruise control scheme for electric vehicles based on model predictive control and online sequential extreme learning machine with a hyper-level fault tolerance-based supervisor. Neurocomputing, 2015, 151, 845-856.	5.9	36
10	A Comparative Analysis of Route-Based Energy Management Systems for Phevs. Asian Journal of Control, 2016, 18, 29-39.	3.0	27
11	Intelligent power management of plug-in hybrid electric vehicles, part I: real-time optimum SOC trajectory builder. International Journal of Electric and Hybrid Vehicles, 2014, 6, 46.	0.3	24
12	Determining Model Accuracy Requirements for Automotive Engine Coldstart Hydrocarbon Emissions Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	23
13	Security of Vehicle Platooning: A Game-Theoretic Approach. IEEE Access, 2019, 7, 185565-185579.	4.2	22
14	Intelligent power management of plug-in hybrid electric vehicles, part II: real-time route based power management. International Journal of Electric and Hybrid Vehicles, 2014, 6, 68.	0.3	21
15	A comparative analysis of route-based power management strategies for real-time application in plug-in hybrid electric vehicles. , 2014, , .		21
16	Multi-objective component sizing of a power-split plug-in hybrid electric vehicle powertrain using Pareto-based natural optimization machines. Engineering Optimization, 2016, 48, 361-379.	2.6	20
17	A Nonlinear Model Predictive Controller With Multiagent Online Optimizer for Automotive Cold-Start Hydrocarbon Emission Reduction. IEEE Transactions on Vehicular Technology, 2016, 65, 4548-4563.	6.3	18
18	High-Fidelity Modeling of a Power-Split Plug-In Hybrid Electric Powertrain for Control Performance Evaluation. , 2013, , .		17

#	ARTICLE	IF	CITATIONS
19	Ecological Adaptive Cruise Control of a plug-in hybrid electric vehicle for urban driving. , 2016, , .		15
20	Smart Autodriver Algorithm for Real-Time Autonomous Vehicle Trajectory Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1984-1995.	8.0	15
21	A Newton/GMRES Approach to Predictive Ecological Adaptive Cruise Control of a Plug-in Hybrid Electric Vehicle in Car-following Scenarios**This work was supported by NSERC and Toyota. IFAC-PapersOnLine, 2016, 49, 59-65.	0.9	14
22	Distributed Nonlinear Model Predictive Control and Metric Learning for Heterogeneous Vehicle Platooning with Cut-in/Cut-out Maneuvers. , 2020, , .		13
23	Traction-Motor Power Ratio and Speed Trajectory Optimization for Power Split PHEVs Using Route Information. , 2012, , .		12
24	Design and evaluation of a real-time fuel-optimal control system for series hybrid electric vehicles. International Journal of Electric and Hybrid Vehicles, 2012, 4, 260.	0.3	12
25	Design and evaluation of a predictive powertrain control system for a plug-in hybrid electric vehicle to improve the fuel economy and the emissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 624-640.	1.9	12
26	Battery Thermal Management of Electric Vehicles: An Optimal Control Approach. , 2015, , .		10
27	Chaos oscillator differential search combined with Pontryagin's minimum principle for simultaneous power management and component sizing of PHEVs. Optimization and Engineering, 2016, 17, 727-760.	2.4	10
28	Ecological Cruise Control of a Plug-in Hybrid Electric Vehicle: A comparison of different GMRES-based Nonlinear Model Predictive Controls. , 2017, , .		8
29	Robust tube-based MPC for automotive adaptive cruise control design. , 2017, , .		8
30	An optimal learning-based controller derived from Hamiltonian function combined with a cellular searching strategy for automotive coldstart emissions. International Journal of Machine Learning and Cybernetics, 2017, 8, 955-979.	3.6	7
31	Control-relevant parameter estimation application to a model-based PHEV power management system. Optimal Control Applications and Methods, 2017, 38, 1148-1167.	2.1	7
32	Real-time immune-inspired optimum state-of-charge trajectory estimation using upcoming route information preview and neural networks for plug-in hybrid electric vehicles fuel economy. Frontiers of Mechanical Engineering, 2015, 10, 154-167.	4.3	6
33	A hybrid switching predictive controller with proportional integral derivative gains and GMDH neural representation of automotive engines for coldstart emission reductions. Engineering Applications of Artificial Intelligence, 2016, 48, 72-94.	8.1	6
34	A hybrid switching predictive controller based on bi-level kernel-based ELM and online trajectory builder for automotive coldstart emissions reduction. Neurocomputing, 2016, 173, 1124-1141.	5.9	6
35	Intelligent Control of Connected Plug-in Hybrid Electric Vehicles. Advances in Industrial Control, 2019, , .	0.5	6
36	Coupling Gaussian generalised regression neural network and mutable smart bee algorithm to analyse the characteristics of automotive engine coldstart hydrocarbon emission. Journal of Experimental and Theoretical Artificial Intelligence, 2015, 27, 253-272.	2.8	5

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37	A hierarchical selective ensemble randomized neural network hybridized with heuristic feature selection for estimation of sea-ice thickness. <i>Applied Intelligence</i> , 2017, 46, 16-33.	5.3	5
38	Online optimization of automotive engine coldstart hydrocarbon emissions control at idle conditions. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015, 229, 781-796.	1.0	4
39	A robust time delay auto-regressive exogenous fuzzy inference system for real-time estimation of catalyst temperature over engines coldstart operation: a multiobjective implementation scenario. <i>International Journal of Dynamics and Control</i> , 2016, 4, 134-153.	2.5	4
40	A stochastic power management strategy with skid avoidance for improving energy efficiency of in-wheel motor electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 1306-1319.	1.9	4
41	Self-controlled bio-inspired extreme learning machines for scalable regression and classification: a comprehensive analysis with some recommendations. <i>Artificial Intelligence Review</i> , 2016, 46, 167-223.	15.7	3
42	Mixed continuous/binary quantum-inspired learning system with non-negative least square optimisation for automated design of regularised ensemble extreme learning machines. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2016, 28, 581-606.	2.8	3
43	Auto-regressive multiple-valued logic neurons with sequential Chua's oscillator back-propagation learning for online prediction and synchronization of chaotic trajectories. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2015, 8, 102-138.	2.7	2
44	On-line Situational Awareness for Autonomous Driving at Roundabouts using Artificial Intelligence. <i>Journal of Machine Intelligence and Data Science</i> , 0, , .	0.0	2
45	Security-aware optimal actuator placement in vehicle platooning. <i>Asian Journal of Control</i> , 2022, 24, 1557-1574.	3.0	1
46	Calibration of catalyst temperature in automotive engines over coldstart operation in the presence of different random noises and uncertainty: Implementation of generalized Gaussian process regression machine. <i>Frontiers of Mechanical Engineering</i> , 2015, 10, 405-412.	4.3	0
47	A Soft Sensor Based on the Integration of Tikhonov Extreme Learning Machine and Accelerated Kernels for Real-Time Estimation of Automotive Catalyst Temperatures. <i>International Journal of Computational Intelligence and Applications</i> , 2015, 14, 1550024.	0.8	0
48	Biologically inspired time-delay soft sensors for online monitoring of automotive coldstart operations: a comparative analysis. <i>Meccanica</i> , 2016, 51, 1931-1972.	2.0	0
49	Multi-parametric Predictive Control. <i>Advances in Industrial Control</i> , 2019, , 79-102.	0.5	0
50	Route-Based Supervisory Controls. <i>Advances in Industrial Control</i> , 2019, , 145-167.	0.5	0