

Beshah Ayalew

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

929
citations

623734

14
h-index

477307

29
g-index

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50
docs citations

50
times ranked

1038
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Robust Observers for State-of-Charge Estimation of Lithium-Ion Cells Based on a Reduced Electrochemical Model. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1935-1942.	5.2	126
2	Sensor Fault Detection, Isolation, and Estimation in Lithium-Ion Batteries. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 2141-2149.	5.2	101
3	Model-based real-time thermal fault diagnosis of Lithium-ion batteries. <i>Control Engineering Practice</i> , 2016, 56, 37-48.	5.5	91
4	Predictive Guidance and Control Framework for (Semi-)Autonomous Vehicles in Public Traffic. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 2034-2046.	5.2	64
5	A Comparative Study of Three Fault Diagnosis Schemes for Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1853-1868.	5.2	54
6	Broadcast Performance Analysis and Improvements of the LTE-V2V Autonomous Mode at Road Intersection. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 9359-9369.	6.3	54
7	Predictive Maneuver Planning for an Autonomous Vehicle in Public Highway Traffic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 1303-1315.	8.0	45
8	Green epoxy synthesized from <i>Perilla frutescens</i> : A study on epoxidation and oxirane cleavage kinetics of high-linolenic oil. <i>Industrial Crops and Products</i> , 2018, 123, 25-34.	5.2	39
9	A Probabilistic Framework for Tracking the Formation and Evolution of Multi-Vehicle Groups in Public Traffic in the Presence of Observation Uncertainties. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 560-571.	8.0	33
10	Real-Time Estimation of Lithium-Ion Concentration in Both Electrodes of a Lithium-Ion Battery Cell Utilizing Electrochemical-Thermal Coupling. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	1.6	25
11	Photopolymerization of Acrylated Epoxidized Soybean Oil: A Photocalorimetry-Based Kinetic Study. <i>ACS Omega</i> , 2019, 4, 21799-21808.	3.5	23
12	Performance of Decentralized Cooperative Perception in V2V Connected Traffic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 6850-6863.	8.0	21
13	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.	7.6	19
14	Interaction of Anti-lock Braking Systems with Tire Torsional Dynamics. <i>Tire Science and Technology</i> , 2012, 40, 171-185.	0.4	17
15	Robust multivariable predictive control for laser-aided powder deposition processes. <i>Journal of the Franklin Institute</i> , 2019, 356, 2505-2529.	3.4	16
16	Forced in-plane vibration of a thick ring on a unilateral elastic foundation. <i>Journal of Sound and Vibration</i> , 2016, 380, 279-294.	3.9	15
17	Second-order sliding-mode differentiators: an experimental comparative analysis using Van der Pol oscillator. <i>International Journal of Control</i> , 2018, 91, 2100-2112.	1.9	15
18	A Novel Model-Based Estimation Scheme for Battery-Double-Layer Capacitor Hybrid Energy Storage Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 689-702.	5.2	13

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19	Modeling a professional driver in ultra-high performance maneuvers with a hybrid cost MPC. , 2016, , .		12
20	Estimation and coordinated control for distributed parameter processes with a moving radiant actuator. Journal of Process Control, 2010, 20, 743-753.	3.3	11
21	Epoxidation Kinetics of High-Linolenic Triglyceride Catalyzed by Solid Acidic-Ion Exchange Resin. Scientific Reports, 2019, 9, 8987.	3.3	11
22	Predictive ADAS: A predictive trajectory guidance scheme for advanced driver assistance in public traffic. , 2015, , .		10
23	Distributed Maneuver Planning With Connected and Automated Vehicles for Boosting Traffic Efficiency. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10887-10901.	8.0	10
24	Frameworks for interfacing trajectory tracking with predictive trajectory guidance for autonomous road vehicles. , 2015, , .		9
25	Predictive kinetic energy management for an addâ€œon driver assistance ecoâ€œdriving of heavy vehicles. IET Intelligent Transport Systems, 2020, 14, 1824-1834.	3.0	9
26	Power management strategies for a series hydraulic hybrid drivetrain. International Journal of Powertrains, 2011, 1, 93.	0.3	7
27	A saturation-balancing control method for enhancing dynamic vehicle stability. International Journal of Vehicle Design, 2013, 61, 47.	0.3	7
28	Hybrid Modeling and Robust Control for Layer-by-Layer Manufacturing Processes. IEEE Transactions on Control Systems Technology, 2017, 25, 550-562.	5.2	7
29	Feedbackless Relaying for Enhancing Reliability of Connected Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 4621-4634.	6.3	7
30	Modelling and control of handling dynamics for a hydrostatically driven vehicle. International Journal of Heavy Vehicle Systems, 2011, 18, 322.	0.2	6
31	Control Allocation for Multi-Axle Hub Motor Driven Land Vehicles. SAE International Journal of Alternative Powertrains, 2016, 5, 338-347.	0.8	6
32	An ant-inspired model for multi-agent interaction networks without stigmergy. Swarm Intelligence, 2018, 12, 53-69.	2.2	6
33	Interaction of a Slip-Based Antilock Braking System with Tire Torsional Dynamics. Tire Science and Technology, 2015, 43, 182-194.	0.4	5
34	Relationships between lane change performance and open-loop vehicle handling metrics. International Journal of Vehicle Design, 2011, 56, 19.	0.3	4
35	A hybrid modeling and optimal control framework for layer-by-layer radiative processing of thick sections. , 2015, , .		4
36	Modelling minimum-time manoeuvring with global optimisation of local receding horizon control. Vehicle System Dynamics, 2018, 56, 1508-1531.	3.7	4

#	ARTICLE	IF	CITATIONS
37	A multiple vehicle group modelling and computation framework for guidance of an autonomous road vehicle. , 2017, , .		3
38	Automated Multi-Object Tracking for Autonomous Vehicle Control in Dynamically Changing Traffic. , 2019, , .		3
39	Impacts of Distributed Speed Harmonization and Optimal Maneuver Planning on Multi-Lane Roads. , 2020, , .		3
40	A Laminated Ring on Elastic Foundation Model and a Feedback Contact Algorithm for Tire-Road Contact Analysis. Tire Science and Technology, 2017, 45, 307-334.	0.4	3
41	Probabilistic constraint tightening techniques for trajectory planning with predictive control. Journal of the Franklin Institute, 2022, 359, 6142-6172.	3.4	3
42	A Quantized Stochastic Modeling Approach for Fault Diagnosis of Lithium-ion Batteries. IFAC-PapersOnLine, 2015, 48, 970-975.	0.9	2
43	On the Inter-Laminar Shear Strength of Composites Manufactured via a Stepped-Concurrent UV Curing and Layering Process. Journal of Composite Materials, 2019, 53, 4149-4159.	2.4	2
44	Self-Excited Torsional Oscillations under Locked-Wheel Braking: Analysis and Experiments. Tire Science and Technology, 2015, 43, 276-296.	0.4	2
45	Experimental Measurement of In-Plane Rolling Nonpneumatic Tire Vibrations Using High-Speed Imaging. Tire Science and Technology, 2019, 47, 196-210.	0.4	1
46	A Cascaded Optimization Approach for Modeling a Professional Driver's Driving Style. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	1
47	A distributed computation scheme for real-time control and estimation of PDEs. , 2016, , .		0
48	Cyber-Human-Physical Heterogeneous Traffic Systems for Enhanced Safety. , 2020, , .		0
49	Cyber-Human-Physical Heterogeneous Traffic Systems for Enhanced Safety. , 2020, , .		0