

Junqiang Xi

List of Publications by Year in descending order

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53
papers

1,889
citations

304743

22
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Energy Management Strategy Based on Velocity Forecasts Using V2V and V2I Communications. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 416-430.	8.0	199
2	Driving Style Classification Using a Semisupervised Support Vector Machine. IEEE Transactions on Human-Machine Systems, 2017, 47, 650-660.	3.5	176
3	A novel lane detection based on geometrical model and Gabor filter. , 2010, , .		150
4	Energy Management Strategies for Hybrid Electric Vehicles: Review, Classification, Comparison, and Outlook. Energies, 2020, 13, 3352.	3.1	96
5	Driving Style Analysis Using Primitive Driving Patterns With Bayesian Nonparametric Approaches. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2986-2998.	8.0	92
6	A Learning-Based Approach for Lane Departure Warning Systems With a Personalized Driver Model. IEEE Transactions on Vehicular Technology, 2018, 67, 9145-9157.	6.3	88
7	Modeling and Recognizing Driver Behavior Based on Driving Data: A Survey. Mathematical Problems in Engineering, 2014, 2014, 1-20.	1.1	81
8	Learning and Inferring a Driver's Braking Action in Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2018, 67, 3887-3899.	6.3	71
9	Special Issue on "Recent Developments on Modeling and Control of Hybrid Electric Vehicles". Asian Journal of Control, 2016, 18, 1-2.	3.0	67
10	Self-supervised learning to visually detect terrain surfaces for autonomous robots operating in forested terrain. Journal of Field Robotics, 2012, 29, 277-297.	6.0	66
11	Energy Management of Hybrid Electric Vehicle Using Vehicle Lateral Dynamic in Velocity Prediction. IEEE Transactions on Vehicular Technology, 2019, 68, 3279-3293.	6.3	65
12	Decision-making in driver-automation shared control: A review and perspectives. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1289-1307.	13.1	64
13	Robust speed synchronization control for clutchless automated manual transmission systems in electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 424-436.	1.9	55
14	Statistical-based approach for driving style recognition using Bayesian probability with kernel density estimation. IET Intelligent Transport Systems, 2019, 13, 22-30.	3.0	47
15	Human-Centered Feed-Forward Control of a Vehicle Steering System Based on a Driver's Path-Following Characteristics. IEEE Transactions on Intelligent Transportation Systems, 2016, , 1-14.	8.0	46
16	Driving-Style-Oriented Adaptive Equivalent Consumption Minimization Strategies for HEVs. IEEE Transactions on Vehicular Technology, 2018, 67, 9249-9261.	6.3	46
17	Learning Driver-Specific Behavior for Overtaking: A Combined Learning Framework. IEEE Transactions on Vehicular Technology, 2018, 67, 6788-6802.	6.3	45
18	Detection and Tracking of Moving Objects at Intersections Using a Network of Laser Scanners. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 655-670.	8.0	44

#	ARTICLE	IF	CITATIONS
19	A rapid pattern-recognition method for driving styles using clustering-based support vector machines. , 2016, , .		44
20	A Supervisory Control Algorithm of Hybrid Electric Vehicle Based on Adaptive Equivalent Consumption Minimization Strategy with Fuzzy PI. Energies, 2016, 9, 919.	3.1	34
21	Importance Weighted Gaussian Process Regression for Transferable Driver Behaviour Learning in the Lane Change Scenario. IEEE Transactions on Vehicular Technology, 2020, 69, 12497-12509.	6.3	27
22	A Real-Time Energy Management Strategy Based on Energy Prediction for Parallel Hybrid Electric Vehicles. IEEE Access, 2018, 6, 70313-70323.	4.2	25
23	Optimization of Shift Schedule for Hybrid Electric Vehicle with Automated Manual Transmission. Energies, 2016, 9, 220.	3.1	22
24	A Learning-Based Personalized Driver Model Using Bounded Generalized Gaussian Mixture Models. IEEE Transactions on Vehicular Technology, 2019, 68, 11679-11690.	6.3	22
25	Self-Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 189-202.	6.3	20
26	A Probabilistic Approach to Measuring Driving Behavior Similarity With Driving Primitives. IEEE Transactions on Intelligent Vehicles, 2020, 5, 127-138.	12.7	18
27	Mixed-Integer Optimal Design and Energy Management of Hybrid Electric Vehicles With Automated Manual Transmissions. IEEE Transactions on Vehicular Technology, 2020, 69, 12705-12715.	6.3	18
28	Development and evaluation of two learning-based personalized driver models for car-following behaviors. , 2017, , .		15
29	Short-term Vehicle Speed Prediction Based on Convolutional Bidirectional LSTM Networks. , 2019, , .		15
30	Spatiotemporal Learning of Multivehicle Interaction Patterns in Lane-Change Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6446-6459.	8.0	15
31	Model Predictive Longitudinal Motion Control for the Unmanned Ground Vehicle With a Trajectory Tracking Model. IEEE Transactions on Vehicular Technology, 2022, 71, 1397-1410.	6.3	14
32	A Time-Efficient Approach for Decision-Making Style Recognition in Lane-Changing Behavior. IEEE Transactions on Human-Machine Systems, 2019, 49, 579-588.	3.5	12
33	Estimation of vehicle mass and road slope based on steady-state Kalman filter. , 2017, , .		11
34	An adaptive equivalent consumption minimization strategy for parallel hybrid electric vehicle based on Fuzzy PI. , 2016, , .		9
35	Numerical and Experimental Investigation of Temperature Distribution for Dry-Clutches. Machines, 2021, 9, 185.	2.2	8
36	Human-centered feed-forward control of a vehicle steering system based on a driver's steering model. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
37	Leveraging Human Driving Preferences to Predict Vehicle Speed. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11137-11147.	8.0	7
38	The study of shift strategy for pure electric bus without synchronizer. , 2011, , .		6
39	Incorporated vehicle lateral control strategy for stability and enhanced energy saving in distributed drive hybrid bus. Applied Soft Computing Journal, 2021, 111, 107617.	7.2	6
40	Development of pneumatically automatic mechanical transmission for a pure electric garbage truck. , 2010, , .		5
41	A Quaternion Unscented Kalman Filter for Road Grade Estimation. , 2020, , .		5
42	Model-Based Embedded Road Grade Estimation Using Quaternion Unscented Kalman Filter. IEEE Transactions on Vehicular Technology, 2022, 71, 3704-3714.	6.3	5
43	Optimal design and simulation evaluation of economical gear-shifting schedule for AMT in pure electronic bus. , 2010, , .		4
44	Research on shift schedule of hybrid bus based on dynamic programming algorithm. , 2012, , .		4
45	Research on Conflict Decision between Shift Schedule and Multienergy Management for PHEV with Automatic Mechanical Transmission under Special Driving Cycles. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	3
46	Driver Drowsiness Detection through a Vehicle's Active Probe Action. , 2019, , .		2
47	Energy Management for Unmanned Tracked Vehicles Based on Global Path. , 2019, , .		2
48	The Study of PHEV Shift Strategy Based on AMT Without Synchronizer. , 2011, , .		1
49	Research on control strategy of automatic clutch during vehicle launching. , 2012, , .		1
50	Experimental and numerical validation of a proportional solenoid valve based on the data-driven model. Transactions of the Institute of Measurement and Control, 2021, 43, 2912-2920.	1.7	1
51	Time Delay Characteristics Analysis of Pressure Dynamic Response on Electro-hydraulic Pressure Regulating valve. , 2021, , .		1
52	Research on Shifting Control Method of Positive Independent Mechanical Split Path Transmission for the Starting Gear. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	0
53	The indirect measurement technology of shift comfort for automatic mechanical transmission. , 2015, , .		0