Haiyan Zhao`

List of Publications by Year
in descending order

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23 papers	525 citations	1307594 7 h-index	1281871 11 g-index
23 all docs	23 docs citations	23 times ranked	456 citing authors

#	Article	IF	Citations
1	MPC-based yaw stability control in in-wheel-motored EV via active front steering and motor torque distribution. Mechatronics, 2016, 38, 103-114.	3.3	141
2	Integrated control of in-wheel motor electric vehicles using a triple-step nonlinear method. Journal of the Franklin Institute, 2015, 352, 519-540.	3.4	74
3	Model predictive control allocation for stability improvement of fourâ€wheel drive electric vehicles in critical driving condition. IET Control Theory and Applications, 2015, 9, 2688-2696.	2.1	57
4	A Reduced-Order Nonlinear Clutch Pressure Observer for Automatic Transmission. IEEE Transactions on Control Systems Technology, 2010, 18, 446-453.	5.2	56
5	Modular Integrated Longitudinal, Lateral, and Vertical Vehicle Stability Control for Distributed Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 1327-1338.	6.3	50
6	MPC-Based Slip Ratio Control for Electric Vehicle Considering Road Roughness. IEEE Access, 2019, 7, 52405-52413.	4.2	28
7	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. IEEE Access, 2019, 7, 66410-66422.	4.2	25
8	A regenerative braking system for electric vehicle with four in-wheel motors based on fuzzy control. , 2017, , .		21
9	A regenerative braking control strategy for electric vehicle with four in-wheel motors. , 2016, , .		19
10	Estimation of Vehicle Yaw Rate and Side Slip Angle using Moving Horizon Strategy. , 2006, , .		15
11	Slip ratio estimation for electric vehicle with in-wheel motors based on EKF without detection of vehicle velocity. , 2016, , .		10
12	Coordinated Attitude Control of Longitudinal, Lateral and Vertical Tyre Forces for Electric Vehicles Based on Model Predictive Control. IEEE Transactions on Vehicular Technology, 2022, 71, 2550-2559.	6.3	7
13	MPC-based torque control of permanent magnet synchronous motor for electric vehicles via switching optimization. Control Theory and Technology, 2017, 15, 138-149.	1.6	4
14	A Feedback Linearization Control Scheme Based on Direct Torque Control for Permanent Magnet Synchronous Motor. , 2018, , .		4
15	A dynamic-decoupling controller of current for permanent magnet synchronous motor. , 2017, , .		3
16	Decision-Making Method of Autonomous Vehicles in Urban Environments Considering Traffic Laws. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21641-21652.	8.0	3
17	Robust Moving Horizon Estimation for Constrained Linear System with Uncertainties. , 2007, , .		2
18	Integrated control of in-wheel-motored electric vehicles using a model predictive control method. , 2014, , .		2

#	Article	IF	Citations
19	Nonlinear model predictive slip control based on vertical suspension system for an in-wheel-motored electric vehicle. , 2017, , .		1
20	Integrated Control of longitudinal-vertical Force for Distributed Electric Vehicles. , 2019, , .		1
21	Longitudinal-vertical integrated sliding mode controller for distributed electric vehicles. Science China Information Sciences, 2020, 63, 1.	4.3	1
22	Vehicle State Estimation Based on Recurrent Neural Network. , 2021, , .		1
23	A comprehensive intention prediction method considering vehicle interaction. , 2020, , .		0