

Junmin Wang

List of Publications by Year in descending order

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250
papers

9,503
citations

31976

53
h-index

48315

88
g-index

251
all docs

251
docs citations

251
times ranked

4769
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and performance characterization of an electric ground vehicle with independently actuated in-wheel motors. Journal of Power Sources, 2011, 196, 3962-3971.	7.8	328
2	Vehicle Lateral Dynamics Control Through AFS/DYC and Robust Gain-Scheduling Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 489-494.	6.3	289
3	Combined AFS and DYC Control of Four-Wheel-Independent-Drive Electric Vehicles over CAN Network with Time-Varying Delays. IEEE Transactions on Vehicular Technology, 2014, 63, 591-602.	6.3	288
4	Robust gain-scheduling energy-to-peak control of vehicle lateral dynamics stabilisation. Vehicle System Dynamics, 2014, 52, 309-340.	3.7	273
5	Coordinated and Reconfigurable Vehicle Dynamics Control. IEEE Transactions on Control Systems Technology, 2009, 17, 723-732.	5.2	231
6	On Energy-to-Peak Filtering for Nonuniformly Sampled Nonlinear Systems: A Markovian Jump System Approach. IEEE Transactions on Fuzzy Systems, 2014, 22, 212-222.	9.8	211
7	Adaptive Sliding-Mode Observer Design for a Selective Catalytic Reduction System of Ground-Vehicle Diesel Engines. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2027-2038.	5.8	201
8	Fault-Tolerant Control With Active Fault Diagnosis for Four-Wheel Independently Driven Electric Ground Vehicles. IEEE Transactions on Vehicular Technology, 2011, 60, 4276-4287.	6.3	200
9	A Parallel Hybrid Electric Vehicle Energy Management Strategy Using Stochastic Model Predictive Control With Road Grade Preview. IEEE Transactions on Control Systems Technology, 2015, 23, 2416-2423.	5.2	199
10	Observer Design for LPV Systems With Uncertain Measurements on Scheduling Variables: Application to an Electric Ground Vehicle. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1659-1670.	5.8	183
11	Hybrid Electric Vehicle Model Predictive Control Torque-Split Strategy Incorporating Engine Transient Characteristics. IEEE Transactions on Vehicular Technology, 2012, 61, 2458-2467.	6.3	175
12	Linear Parameter-Varying Controller Design for Four-Wheel Independently Actuated Electric Ground Vehicles With Active Steering Systems. IEEE Transactions on Control Systems Technology, 2014, 22, 1281-1296.	5.2	161
13	Lateral motion control for four-wheel-independent-drive electric vehicles using optimal torque allocation and dynamic message priority scheduling. Control Engineering Practice, 2014, 24, 55-66.	5.5	146
14	Adaptive Vehicle Speed Control With Input Injections for Longitudinal Motion Independent Road Frictional Condition Estimation. IEEE Transactions on Vehicular Technology, 2011, 60, 839-848.	6.3	140
15	Improving Vehicle Handling Stability Based on Combined AFS and DYC System via Robust Takagi-Sugeno Fuzzy Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2696-2707.	8.0	127
16	Fast and Global Optimal Energy-Efficient Control Allocation With Applications to Over-Actuated Electric Ground Vehicles. IEEE Transactions on Control Systems Technology, 2012, 20, 1202-1211.	5.2	124
17	Design and Evaluation on Electric Differentials for Overactuated Electric Ground Vehicles With Four Independent In-Wheel Motors. IEEE Transactions on Vehicular Technology, 2012, 61, 1534-1542.	6.3	120
18	Hybrid Robust Air-Path Control for Diesel Engines Operating Conventional and Low Temperature Combustion Modes. IEEE Transactions on Control Systems Technology, 2008, 16, 1138-1151.	5.2	119

#	ARTICLE	IF	CITATIONS
19	Design and Experimental Evaluations on Energy Efficient Control Allocation Methods for Overactuated Electric Vehicles: Longitudinal Motion Case. IEEE/ASME Transactions on Mechatronics, 2014, 19, 538-548.	5.8	115
20	State Estimation of Discrete-Time Takagi-Sugeno Fuzzy Systems in a Network Environment. IEEE Transactions on Cybernetics, 2015, 45, 1525-1536.	9.5	115
21	A New Delay-Compensation Scheme for Networked Control Systems in Controller Area Networks. IEEE Transactions on Industrial Electronics, 2018, 65, 7239-7247.	7.9	113
22	Development and experimental studies of a control-oriented SCR model for a two-catalyst urea-SCR system. Control Engineering Practice, 2011, 19, 409-422.	5.5	112
23	Robust Weighted Gain-Scheduling H_{∞} Vehicle Lateral Motion Control With Considerations of Steering System Backlash-Type Hysteresis. IEEE Transactions on Control Systems Technology, 2014, 22, 1740-1753.	5.2	111
24	Robust energy-to-peak sideslip angle estimation with applications to ground vehicles. Mechatronics, 2015, 30, 338-347.	3.3	108
25	Passive Actuator Fault-Tolerant Control for a Class of Overactuated Nonlinear Systems and Applications to Electric Vehicles. IEEE Transactions on Vehicular Technology, 2013, 62, 972-985.	6.3	106
26	Adaptive Energy-Efficient Control Allocation for Planar Motion Control of Over-Actuated Electric Ground Vehicles. IEEE Transactions on Control Systems Technology, 2014, 22, 1362-1373.	5.2	101
27	Tire-road friction coefficient and tire cornering stiffness estimation based on longitudinal tire force difference generation. Control Engineering Practice, 2013, 21, 65-75.	5.5	100
28	Observer-based tracking controller design for networked predictive control systems with uncertain Markov delays. International Journal of Control, 2013, 86, 1824-1836.	1.9	100
29	Air fraction estimation for multiple combustion mode diesel engines with dual-loop EGR systems. Control Engineering Practice, 2008, 16, 1479-1486.	5.5	99
30	Energy Management and Driving Strategy for In-Wheel Motor Electric Ground Vehicles With Terrain Profile Preview. IEEE Transactions on Industrial Informatics, 2014, 10, 1938-1947.	11.3	96
31	Active Fault-Tolerant Control for Electric Vehicles With Independently Driven Rear In-Wheel Motors Against Certain Actuator Faults. IEEE Transactions on Control Systems Technology, 2016, 24, 1557-1572.	5.2	95
32	A Gain-Scheduling Driver Assistance Trajectory-Following Algorithm Considering Different Driver Steering Characteristics. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1097-1108.	8.0	95
33	Robust H_{∞} sliding mode control with pole placement for a fluid power electrohydraulic actuator (EHA) system. International Journal of Advanced Manufacturing Technology, 2014, 73, 1095-1104.	3.0	93
34	Robust sliding-mode control for Markovian jump systems subject to intermittent observations and partially known transition probabilities. Systems and Control Letters, 2013, 62, 1114-1124.	2.3	91
35	Active Steering Actuator Fault Detection for An Automatically-steered Electric Ground Vehicle. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	91
36	Predictive Energy Management Strategy for Fully Electric Vehicles Based on Preceding Vehicle Movement. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3049-3060.	8.0	87

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37	A Driver Steering Model With Personalized Desired Path Generation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 111-120.	9.3	86
38	A Two-Cell Backstepping-Based Control Strategy for Diesel Engine Selective Catalytic Reduction Systems. IEEE Transactions on Control Systems Technology, 2011, 19, 1504-1515.	5.2	85
39	A robust wheel slip ratio control design combining hydraulic and regenerative braking systems for in-wheel-motors-driven electric Vehicles. Journal of the Franklin Institute, 2015, 352, 577-602.	3.4	80
40	Robust Lateral Motion Control of Electric Ground Vehicles With Random Network-Induced Delays. IEEE Transactions on Vehicular Technology, 2015, 64, 4985-4995.	6.3	76
41	Fault-Tolerant Control for Electric Ground Vehicles With Independently-Actuated In-Wheel Motors. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	75
42	Experimental investigation of diesel and biodiesel post injections during active diesel particulate filter regenerations. Fuel, 2014, 130, 286-295.	6.4	73
43	A Personalizable Driver Steering Model Capable of Predicting Driver Behaviors in Vehicle Collision Avoidance Maneuvers. IEEE Transactions on Human-Machine Systems, 2017, 47, 625-635.	3.5	71
44	Control-oriented model for integrated diesel engine and aftertreatment systems thermal management. Control Engineering Practice, 2014, 22, 81-93.	5.5	69
45	Robust finite frequency static-output-feedback control with application to vibration active control of structural systems. Mechatronics, 2014, 24, 354-366.	3.3	69
46	Design and experimental validation of an extended Kalman filter-based NOx concentration estimator in selective catalytic reduction system applications. Control Engineering Practice, 2011, 19, 346-353.	5.5	68
47	Robust lateral motion control of four-wheel independently actuated electric vehicles with tire force saturation consideration. Journal of the Franklin Institute, 2015, 352, 645-668.	3.4	65
48	Model predictive regenerative braking control for lightweight electric vehicles with in-wheel motors. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1220-1232.	1.9	61
49	Dynamic Traffic Signal Timing Optimization Strategy Incorporating Various Vehicle Fuel Consumption Characteristics. IEEE Transactions on Vehicular Technology, 2016, 65, 3874-3887.	6.3	61
50	Adaptive and Efficient Ammonia Storage Distribution Control for a Two-Catalyst Selective Catalytic Reduction System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	60
51	Multiobjective Optimization of Lane-Changing Strategy for Intelligent Vehicles in Complex Driving Environments. IEEE Transactions on Vehicular Technology, 2020, 69, 1291-1308.	6.3	60
52	Ultra-local model predictive control: A model-free approach and its application on automated vehicle trajectory tracking. Control Engineering Practice, 2020, 101, 104482.	5.5	60
53	Fuzzy Observer-Based Transitional Path-Tracking Control for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3078-3088.	8.0	60
54	Air-fraction modeling for simultaneous Diesel engine NOx and PM emissions control during active DPF regenerations. Applied Energy, 2014, 122, 310-320.	10.1	57

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55	Human-Centered Trajectory Tracking Control for Autonomous Vehicles With Driver Cut-In Behavior Prediction. IEEE Transactions on Vehicular Technology, 2019, 68, 8461-8471.	6.3	57
56	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
57	Real-Time Estimation of Center of Gravity Position for Lightweight Vehicles Using Combined AKF&EKF Method. IEEE Transactions on Vehicular Technology, 2014, 63, 4221-4231.	6.3	54
58	NO and NO2 Concentration Modeling and Observer-Based Estimation Across a Diesel Engine Aftertreatment System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	53
59	A feedforward and feedback integrated lateral and longitudinal driver model for personalized advanced driver assistance systems. Mechatronics, 2018, 50, 177-188.	3.3	52
60	Sideslip Angle Estimation of an Electric Ground Vehicle via Finite-Frequency H_{∞} Approach. IEEE Transactions on Transportation Electrification, 2016, 2, 200-209.	7.8	50
61	Robust H_{∞} dynamic output-feedback control for four-wheel independently actuated electric ground vehicles through integrated AFS/DYC. Journal of the Franklin Institute, 2018, 355, 9321-9350.	3.4	50
62	Autonomous ground vehicle control system for high-speed and safe operation. International Journal of Vehicle Autonomous Systems, 2009, 7, 18.	0.2	48
63	Motion Planning With Velocity Prediction and Composite Nonlinear Feedback Tracking Control for Lane-Change Strategy of Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2020, 5, 63-74.	12.7	46
64	Observer-Based Estimation of Air-Fractions for a Diesel Engine Coupled With Aftertreatment Systems. IEEE Transactions on Control Systems Technology, 2013, 21, 2239-2250.	5.2	45
65	A Stochastic Driver Pedal Behavior Model Incorporating Road Information. IEEE Transactions on Human-Machine Systems, 2017, 47, 614-624.	3.5	45
66	A Framework of Vehicle Trajectory Replanning in Lane Exchanging with Considerations of Driver Characteristics. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	44
67	Control of diesel engine dual-loop EGR air-path systems by a singular perturbation method. Control Engineering Practice, 2013, 21, 981-988.	5.5	43
68	Output-feedback robust control for vehicle path tracking considering different human drivers&TM characteristics. Mechatronics, 2018, 50, 402-412.	3.3	43
69	Nonlinear Observer Design of Diesel Engine Selective Catalytic Reduction Systems With NO_x Sensor Measurements. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1585-1594.	5.8	42
70	Combined feedback&feedforward tracking control for networked control systems with probabilistic delays. Journal of the Franklin Institute, 2014, 351, 3477-3489.	3.4	41
71	Robust control for four wheel independently-actuated electric ground vehicles by external yaw-moment generation. International Journal of Automotive Technology, 2015, 16, 839-847.	1.4	40
72	Estimation and adaptive nonlinear model predictive control of selective catalytic reduction systems in automotive applications. Journal of Process Control, 2016, 40, 78-92.	3.3	40

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73	Globally energy-optimal speed planning for road vehicles on a given route. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 93, 148-160.	7.6	40
74	Cycle-based optimal NOx emission control of selective catalytic reduction systems with dynamic programming algorithm. <i>Fuel</i> , 2015, 141, 200-206.	6.4	39
75	Motor/Generator Applications in Electrified Vehicle Chassis—A Survey. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 584-601.	7.8	39
76	Robust Filtering for Ammonia Coverage Estimation in Diesel Engine Selective Catalytic Reduction Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013, 135, .	1.6	37
77	A two-level stochastic approach to optimize the energy management strategy for fixed-route hybrid electric vehicles. <i>Mechatronics</i> , 2016, 38, 93-102.	3.3	37
78	Driver-Assistance Lateral Motion Control for In-Wheel-Motor-Driven Electric Ground Vehicles Subject to Small Torque Variation. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 6838-6850.	6.3	37
79	Center of gravity height real-time estimation for lightweight vehicles using tire instant effective radius. <i>Control Engineering Practice</i> , 2013, 21, 370-380.	5.5	36
80	Actuator-Redundancy-Based Fault Diagnosis for Four-Wheel Independently Actuated Electric Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 239-249.	8.0	36
81	Fault-Tolerant Control for Electric Vehicles With Independently Driven in-Wheel Motors Considering Individual Driver Steering Characteristics. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 4527-4536.	6.3	35
82	Lightweight Vehicle Control-Oriented Modeling and Payload Parameter Sensitivity Analysis. <i>IEEE Transactions on Vehicular Technology</i> , 2011, 60, 1999-2011.	6.3	34
83	Nonlinear Model Predictive Control of Integrated Diesel Engine and Selective Catalytic Reduction System for Simultaneous Fuel Economy Improvement and Emissions Reduction. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	1.6	32
84	Integrated Model Predictive Control of Hybrid Electric Vehicles Coupled With Aftertreatment Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 1199-1211.	6.3	32
85	An Autonomous T-Intersection Driving Strategy Considering Oncoming Vehicles Based on Connected Vehicle Technology. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2779-2790.	5.8	32
86	Rollover speed prediction on curves for heavy vehicles using mobile smartphone. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 130, 404-411.	5.0	31
87	Development and experimental validation of a control-oriented Diesel engine model for fuel consumption and brake torque predictions. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 261-277.	2.2	30
88	Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4160-4170.	9.3	30
89	Robust Adaptive Path-Tracking Control of Autonomous Ground Vehicles With Considerations of Steering System Backlash. <i>IEEE Transactions on Intelligent Vehicles</i> , 2022, 7, 315-325.	12.7	30
90	Two-Level Nonlinear Model Predictive Control for Lean NOx Trap Regenerations. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010, 132, .	1.6	29

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91	Removal of NO_x sensor ammonia cross sensitivity from contaminated measurements in Diesel-engine selective catalytic reduction systems. <i>Fuel</i> , 2015, 150, 448-456.	6.4	29
92	Ammonia coverage ratio and input simultaneous estimation in ground vehicle selective catalytic reduction (SCR) systems. <i>Journal of the Franklin Institute</i> , 2015, 352, 708-723.	3.4	29
93	Optimal Dosing and Sizing Optimization for a Ground-Vehicle Diesel-Engine Two-Cell Selective Catalytic Reduction System. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 4740-4751.	6.3	29
94	On the Control Allocation for Coordinated Ground Vehicle Dynamics Control Systems. <i>Proceedings of the American Control Conference</i> , 2007, . .	0.0	27
95	Nonlinear and adaptive control of NO/NO ₂ ratio for improving selective catalytic reduction system performance. <i>Journal of the Franklin Institute</i> , 2013, 350, 1992-2012.	3.4	27
96	A Personalized Human-Like Lane-Changing Trajectory Planning Method for Automated Driving System. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 6399-6414.	6.3	27
97	Extremum-Seeking-Based Adaptive Model-Free Control and Its Application to Automated Vehicle Path Tracking. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 3874-3884.	5.8	27
98	Robust two-mode-dependent controller design for networked control systems with random delays modelled by Markov chains. <i>International Journal of Control</i> , 2015, 88, 2499-2509.	1.9	26
99	Vehicle Path-Tracking Linear-Time-Varying Model Predictive Control Controller Parameter Selection Considering Central Process Unit Computational Load. <i>Journal of Dynamic Systems, Measurement and Control</i> , <i>Transactions of the ASME</i> , 2019, 141, .	1.6	26
100	Energy-efficient control allocation with applications on planar motion control of electric ground vehicles. , 2011, . .		25
101	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. <i>IEEE Access</i> , 2019, 7, 66410-66422.	4.2	25
102	Trust-Based and Individualizable Adaptive Cruise Control Using Control Barrier Function Approach With Prescribed Performance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 6974-6984.	8.0	24
103	Linear parameter-varying-based fault-tolerant controller design for a class of over-actuated non-linear systems with applications to electric vehicles. <i>IET Control Theory and Applications</i> , 2014, 8, 705-717.	2.1	23
104	Integrated Power Management and Aftertreatment System Control for Hybrid Electric Vehicles With Road Grade Preview. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 10935-10945.	6.3	23
105	A physics-based time-varying transport delay oxygen concentration model for dual-loop exhaust gas recirculation (EGR) engine air-paths. <i>Applied Energy</i> , 2014, 125, 300-307.	10.1	22
106	Autonomous Vehicle Trajectory Following: A Flatness Model Predictive Control Approach With Hardware-in-the-Loop Verification. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 5613-5623.	8.0	21
107	An extended Kalman filter for NO_x sensor ammonia cross-sensitivity elimination in selective catalytic reduction applications. , 2010, . .		20
108	Sensor Reduction in Diesel Engine Two-Cell Selective Catalytic Reduction (SCR) Systems for Automotive Applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2222-2233.	5.8	20

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109	Self-Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 189-202.	6.3	20
110	Integrated Study of Inland-Vessel Diesel Engine Two-Cell SCR Systems With Dynamic References. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1195-1206.	5.8	19
111	Popov- <i>H</i> Robust Path-Tracking Control of Autonomous Ground Vehicles with Consideration of Sector Bounded Kinematic Nonlinearity. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, , .	1.6	19
112	Pressure-based transient intake manifold temperature reconstruction in Diesel engines. Control Engineering Practice, 2012, 20, 531-538.	5.5	18
113	NOx Sensor Ammonia-Cross-Sensitivity Factor Estimation in Diesel Engine Selective Catalytic Reduction Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	18
114	Optimizing the Energy Management Strategy for Plug-In Hybrid Electric Vehicles With Multiple Frequent Routes. IEEE Transactions on Control Systems Technology, 2019, 27, 394-400.	5.2	18
115	Longitudinal Motion Based Lightweight Vehicle Payload Parameter Real-Time Estimations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	17
116	Introducing mass parameters to Pseudo-“Rigid” Body models for precisely predicting dynamics of compliant mechanisms. Mechanism and Machine Theory, 2018, 126, 273-294.	4.5	17
117	Stable and Optimal Load Sharing of Multiple PMSGs in an Islanded DC Microgrid. IEEE Transactions on Energy Conversion, 2018, 33, 260-271.	5.2	17
118	Design and Modeling of a Compliant Link for Inherently Safe Corobots. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	17
119	In-Wheel-Motor-Driven Electric Vehicles Motion Control Methods Considering Motor Thermal Protection. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	17
120	Impaired Driver Assistance Control With Gain-Scheduling Composite Nonlinear Feedback for Vehicle Trajectory Tracking. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	17
121	Electric Vehicle Velocity and Energy Consumption Predictions Using Transformer and Markov-Chain Monte Carlo. IEEE Transactions on Transportation Electrification, 2022, 8, 3836-3847.	7.8	17
122	Oxygen Concentration Dynamic Model and Observer-Based Estimation Through a Diesel Engine Aftertreatment System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	16
123	Correction of contaminated yaw rate signal and estimation of sensor bias for an electric vehicle under normal driving conditions. Mechanical Systems and Signal Processing, 2017, 87, 64-80.	8.0	16
124	Analysis of Human Driver Behavior in Highway Cut-in Scenarios. , 0, , .		16
125	Energetic Impacts Evaluation of Eco-Driving on Mixed Traffic With Driver Behavioral Diversity. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3406-3417.	8.0	16
126	Obstacle Detection for Autonomous Driving Vehicles With Multi-LiDAR Sensor Fusion. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	15

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127	Nonlinear observer designs for diesel engine selective catalytic reduction (SCR) ammonia coverage ratio estimation. , 2009, , .		14
128	An extended Kalman filter for ammonia coverage ratio and capacity estimations in the application of Diesel engine SCR control and onboard diagnosis. , 2010, , .		14
129	Control-Oriented Modeling and Observer-Based Estimation of Solid and Gas Temperatures for a Diesel Engine Aftertreatment System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	14
130	A novel cost-effective robust approach for selective catalytic reduction state estimations using dual nitrogen oxide sensors. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 83-96.	1.9	14
131	Coordinated Active Thermal Management and Selective Catalytic Reduction Control for Simultaneous Fuel Economy Improvement and Emissions Reduction During Low-Temperature Operations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	14
132	Modeling and control of inherently safe robots with variable stiffness links. Robotics and Autonomous Systems, 2019, 120, 103247.	5.1	14
133	Incremental Model Predictive Control of Active Suspensions With Estimated Road Preview Information From a Lead Vehicle. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	14
134	Control-oriented multi-phase combustion model for biodiesel fueled engines. Applied Energy, 2013, 108, 92-99.	10.1	13
135	Predictive energy management strategy for electric vehicles based on estimation of preceding vehicle future movements. , 2016, , .		13
136	Simultaneous Estimation of Vehicle's Center of Gravity and Inertial Parameters Based on Ackermann's Steering Geometry. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	13
137	Automated Ground Vehicle Path-Following: A Robust Energy-to-Peak Control Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14294-14305.	8.0	13
138	Design and Robustness Analysis of Discrete Observers for Diesel Engine In-Cylinder Oxygen Mass Fraction Cycle-by-Cycle Estimation. IEEE Transactions on Control Systems Technology, 2011, , .	5.2	12
139	An adaptive energy-efficient control allocation on planar motion control of electric ground vehicles. , 2011, , .		12
140	Improved NO and NO ₂ Concentration Estimation for a Diesel-Engine-Aftertreatment System. IEEE/ASME Transactions on Mechatronics, 2018, 23, 190-199.	5.8	12
141	Predictive Control for NO _x Emission Reductions in Diesel Engine Vehicle Platoon Application. IEEE Transactions on Vehicular Technology, 2019, 68, 6429-6440.	6.3	12
142	Trajectory Tracking Control for Autonomous Vehicles in Different Cut-in Scenarios. , 2019, , .		12
143	Toward Tradeoff Between Impact Force Reduction and Maximum Safe Speed: Dynamic Parameter Optimization of Variable Stiffness Robots. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	12
144	Fault-tolerant control with active fault diagnosis for four-wheel independently-driven electric ground vehicles. , 2011, , .		11

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145	A robust wheel slip control design for in-wheel-motor-driven electric vehicles with hydraulic and regenerative braking systems. , 2014, , .		11
146	WiDrive: Adaptive WiFi-Based Recognition of Driver Activity for Real-Time and Safe Takeover. , 2019, , .		11
147	Automated Vehicle Path Following: A Non-Quadratic-Lyapunov-Function-Based Model Reference Adaptive Control Approach With C^{∞} -Smooth Projection Modification. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21653-21664.	8.0	11
148	Optimization of the ammonia coverage ratio references in diesel engine two-can selective catalytic reduction systems via nonlinear model predictive control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1452-1467.	1.9	10
149	Sliding-mode observers for urea selective catalytic reduction system state estimations based on nitrogen oxide sensor measurements. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 835-849.	1.9	10
150	NOx Sensor Reading Correction in Diesel Engine Selective Catalytic Reduction System Applications. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	5.8	10
151	Adaptive Observer for Joint Estimation of Oxygen Fractions and Blend Level in Biodiesel Fueled Engines. IEEE Transactions on Control Systems Technology, 2015, 23, 80-90.	5.2	10
152	Observer-Based Estimation of Aging Condition for Selective Catalytic Reduction Systems in Vehicle Applications. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	10
153	Staircase ammonia coverage ratio profile control for Diesel engine two-cell selective catalytic reduction systems. , 2010, , .		9
154	Cycle-based ammonia-coverage-ratio reference generator design for Diesel engine two-cell selective catalytic reduction systems via a fuzzy approach. Fuel, 2015, 159, 76-83.	6.4	9
155	Flatness-based Model Predictive Control for Autonomous Vehicle Trajectory Tracking. , 2019, , .		9
156	A Learning-Based Vehicle Trajectory-Tracking Approach for Autonomous Vehicles With LiDAR Failure Under Various Lighting Conditions. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1011-1022.	5.8	9
157	In-cylinder oxygen mass fraction cycle-by-cycle estimation via a lyapunov-based observer design. , 2010, , .		8
158	Adaptive vehicle planar motion control with fast parameter estimation. , 2012, , .		8
159	Hand-wheel steering signal estimation and diagnosis approaches for ground vehicles. Control Engineering Practice, 2012, 20, 654-662.	5.5	8
160	Integrated diesel engine and selective catalytic reduction system active NO _x control for fuel economy improvement. , 2013, , .		8
161	A least-squares regression based method for vehicle yaw moment of inertia estimation. , 2015, , .		8
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