Junmin Wang

List of Publications by Year in Descending Order

225 papers	6,750 citations	48 h-index	75 g-index
251 ext. papers	8,190 ext. citations	4 avg, IF	6.89 L-index

#	Paper	IF	Citations
225	Robust Adaptive Path-Tracking Control of Autonomous Ground Vehicles with Considerations of Steering System Backlash. *IEEE Transactions on Intelligent Vehicles*, **2022**, 1-1	5	0
224	Electric Vehicle Velocity and Energy Consumption Predictions Using Transformer and Markov-Chain Monte Carlo. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	0
223	Illumination-Resilient Lane Detection by Threshold Self-Adjustment Using Newton-Based Extremum Seeking. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-12	6.1	
222	Extremum-Seeking-Based Adaptive Model-Free Control and Its Application to Automated Vehicle Path Tracking. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-11	5.5	2
221	Personalized Driving Behaviors and Fuel Economy over Realistic Commute Traffic: Modeling, Correlation, and Prediction. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	0
220	Comparison of Different Variable Combinations for Electric Vehicle Power Prediction Using Kernel Adaptive Filter. *IFAC-PapersOnLine*, **2021**, 54, 858-863	0.7	0
219	Real-Time Adaptive Threshold Adjustment for Lane Detection Application under Different Lighting Conditions using Model-Free Control. *IFAC-PapersOnLine*, **2021**, 54, 147-152	0.7	1
218	Implementation Resource Allocation for Collision-Avoidance Assistance Systems Considering Driver Capabilities. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	0
217	Algebraic Car-Following Model Parameter Identification. *IFAC-PapersOnLine*, **2021**, 54, 864-869	0.7	0
216	Parameterized Derivative-free Optimization Approach for Car-following Model Calibration. *IFAC-PapersOnLine*, **2021**, 54, 876-881	0.7	0
215	Automated Ground Vehicle Path-Following: A Robust Energy-to-Peak Control Approach. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-12	6.1	1
214	Design, Modeling, and Manufacturing of a Variable Lateral Stiffness Arm Via Shape Morphing Mechanisms. *Journal of Mechanisms and Robotics*, **2021**, 13,	2.2	2
213	Popov-H□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	4
212	Fuzzy Observer-Based Transitional Path-Tracking Control for Autonomous Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3078-3088	6.1	20
211	Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 4160-4170	7.3	13
210	An Algebraic Evaluation Framework for a Class of Car-Following Models. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	
209	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	7

208	A Learning-based Vehicle Trajectory-Tracking Approach for Autonomous Vehicles with LiDAR Failure under Various Lighting Conditions. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	1
207	A Parametric Study of Compliant Link Design for Safe Physical HumanRobot Interaction. *Robotica*, **2021**, 39, 1739-1759	2.1	0
206	A Personalized Human-Like Lane-Changing Trajectory Planning Method for Automated Driving System. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6399-6414	6.8	5
205	Self-Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 189-202	6.8	6
204	Path-Tracking Considering Yaw Stability With Passivity-Based Control for Autonomous Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	2
203	Autonomous Vehicle Trajectory Following: A Flatness Model Predictive Control Approach With Hardware-in-the-Loop Verification. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-11	6.1	7
202	Ultra-local model predictive control: A model-free approach and its application on automated vehicle trajectory tracking. *Control Engineering Practice*, **2020**, 101, 104482	3.9	25
201	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	5	17
200	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	8
199	A Comparative Study on the Effect of Mechanical Compliance for a Safe Physical HumanRobot Interaction. *Journal of Mechanical Design, Transactions of the ASME*, **2020**, 142,	3	3
198	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	6
197	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	6
196	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	2
195	MC-Safe. *ACM Transactions on Cyber-Physical Systems*, **2020**, 4, 1-27	2.3	5
194	Personalized Ground Vehicle Collision Avoidance System: From a Computational Resource Re-allocation Perspective **2020**,		2
193	Multiobjective Optimization of Lane-Changing Strategy for Intelligent Vehicles in Complex Driving Environments. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1291-1308	6.8	24
192	A Novel Vehicle Tracking Method for Cross-Area Sensor Fusion with Reinforcement Learning Based GMM **2020**,		3
191	Energetic Impacts Evaluation of Eco-Driving on Mixed Traffic With Driver Behavioral Diversity. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-12	6.1	4

190	Sliding-mode control of automotive selective catalytic reduction systems with state estimation. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2020**, 234, 630-644	1.4	3
189	Human-Centered Trajectory Tracking Control for Autonomous Vehicles With Driver Cut-In Behavior Prediction. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 8461-8471	6.8	29
188	. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 6429-6440	6.8	3
187	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. *IEEE Access*, **2019**, 7, 66410-66422	3.5	18
186	. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 4527-4536	6.8	20
185	Motor/Generator Applications in Electrified Vehicle Chassis: A Survey. *IEEE Transactions on Transportation Electrification*, **2019**, 5, 584-601	7.6	18
184	Modeling and control of inherently safe robots with variable stiffness links. *Robotics and Autonomous Systems*, **2019**, 120, 103247	3.5	9
183	Cascaded Velocity Estimation with Adaptive Complementary Filtering: Implementation on a FIAIWM EGV **2019**,		1
182	A Predictive Control Method for Automotive Selective Catalytic Reduction Systems **2019**,		1
181	. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2779-2790	5.5	20
180	Trajectory Tracking Control for Autonomous Vehicles in Different Cut-in Scenarios **2019**,		4
179	Flatness-based Model Predictive Control for Autonomous Vehicle Trajectory Tracking **2019**,		4
178	WiDrive: Adaptive WiFi-Based Recognition of Driver Activity for Real-Time and Safe Takeover **2019**,		3
177	Worst-case relative cost optimal control for dynamic systems with finite admissible disturbance sequence sets. *International Journal of Control*, **2019**, 1-8	1.5	0
176	Drivers Attentional Instability on a Winding Roadway. *IEEE Transactions on Human-Machine Systems* , **2019**, 49, 498-507	4.1	1
175	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	11
174	Vehicle Path-Tracking Linear-Time-Varying Model Predictive Control Controller Parameter Selection Considering Central Process Unit Computational Load. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	15
173	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	4.8	14

172	A feedforward and feedback integrated lateral and longitudinal driver model for personalized advanced driver assistance systems. *Mechatronics*, **2018**, 50, 177-188	3	37
171	Driver-Assistance Lateral Motion Control for In-Wheel-Motor-Driven Electric Ground Vehicles Subject to Small Torque Variation. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 6838-6850	6.8	26
170	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	4	33
169	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 7239-7247	8.9	88
168	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	6.1	77
167	Robust Gain-Scheduling Control of Vehicle Lateral Dynamics Through AFS/DYC **2018**, 339-368		4
166	Introducing mass parameters to Pseudo□Rigid□Body models for precisely predicting dynamics of compliant mechanisms. *Mechanism and Machine Theory*, **2018**, 126, 273-294	4	15
165	Output-feedback robust control for vehicle path tracking considering different human drivers□ characteristics. *Mechatronics*, **2018**, 50, 402-412	3	24
164	. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 190-199	5.5	8
163	Stable and Optimal Load Sharing of Multiple PMSGs in an Islanded DC Microgrid. *IEEE Transactions on Energy Conversion*, **2018**, 33, 260-271	5.4	11
162	Sliding-mode Control of Ammonia Coverage Ratio for Automotive Selective Catalytic Reduction Systems **2018**,		3
161	Model-based Control of Automotive Selective Catalytic Reduction Systems with Road Grade Preview **2018**,		1
160	Rollover speed prediction on curves for heavy vehicles using mobile smartphone. *Measurement: Journal of the International Measurement Confederation*, **2018**, 130, 404-411	4.6	19
159	Design and Modeling of a Compliant Link for Inherently Safe Corobots. *Journal of Mechanisms and Robotics*, **2018**, 10,	2.2	14
158	Parameter Selection of an LTV-MPC Controller for Vehicle Path Tracking Considering CPU Computational Load **2018**,		2
157	A Study on Economical Vehicle Platooning Strategy in Urban Driving Scenarios **2018**,		2
156	Dynamic Channel Selection for Real-Time Safety Message Communication in Vehicular Networks **2018**,		2
155	Personalized Vehicle Path Following Based on Robust Gain-scheduling Control in Lane-changing and Left-turning Maneuvers **2018**,		4

154	Globally energy-optimal speed planning for road vehicles on a given route. *Transportation Research Part C: Emerging Technologies*, **2018**, 93, 148-160	8.4	23
153	A Driver Steering Model With Personalized Desired Path Generation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 111-120	7.3	52
152	Simultaneous Estimation of Vehicle Center of Gravity and Inertial Parameters Based on Ackermann Steering Geometry. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	8
151	Fault-type identification and fault estimation of the active steering system of an electric vehicle in normal driving conditions. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2017**, 231, 1679-1692	1.4	4
150	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	7
149	A Stochastic Driver Pedal Behavior Model Incorporating Road Information. *IEEE Transactions on Human-Machine Systems*, **2017**, 47, 614-624	4.1	32
148	. *IEEE Transactions on Intelligent Transportation Systems*, **2017**, 18, 3049-3060	6.1	50
147	Control of aged automotive selective catalytic reduction systems for consistent performances. *Journal of the Franklin Institute*, **2017**, 354, 8094-8116	4	4
146	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 10935-10945	6.8	18
145	Analysis of Human Driver Behavior in Highway Cut-in Scenarios **2017**,		8
144	Energy Consumption and Tailpipe Emission Reductions by Personalized Control of Connected Vehicles. *Mechanical Engineering*, **2017**, 139, S5-S11	0.9	0
143	Robust fuzzy control for vehicle lateral dynamic stability via Takagi-Sugeno fuzzy approach **2017**,		5
142	Robust vehicle longitudinal motion control subject to in-wheel-motor driving torque variations **2017**,		6
141	Automatic vehicle trajectory tracking control with self-calibration of nonlinear tire force function **2017**,		1
140	Predictive energy management strategy for fully electric vehicles based on hybrid model predictive control **2017**,		3
139	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	4.1	50
138	. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 1195-1206	5.5	18
137	. *IEEE Transactions on Intelligent Transportation Systems*, **2017**, 18, 1097-1108	6.1	59

136	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	7.8	12
135	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 1199-1211	6.8	24
134	Vehicle Lateral Dynamics Control Through AFS/DYC and Robust Gain-Scheduling Approach. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 489-494	6.8	211
133	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 4740-4751	6.8	29
132	. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 1557-1572	4.8	60
131	A two-level stochastic approach to optimize the energy management strategy for fixed-route hybrid electric vehicles. *Mechatronics*, **2016**, 38, 93-102	3	29
130	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 3874-3887	6.8	37
129	. *IEEE Transactions on Transportation Electrification*, **2016**, 2, 200-209	7.6	36
128	. *IEEE/ASME Transactions on Mechatronics*, **2016**, 21, 1659-1670	5.5	162
127	Estimation and adaptive nonlinear model predictive control of selective catalytic reduction systems in automotive applications. *Journal of Process Control*, **2016**, 40, 78-92	3.9	29
126	Traffic signal timing optimization incorporating individual vehicle fuel consumption characteristics under connected vehicles environment **2016**,		5
125	Comparative Study and Accommodation of Biodiesel in Diesel-Electric Hybrid Vehicles Coupled with Aftertreatment Systems. *Asian Journal of Control*, **2016**, 18, 3-15	1.7	4
124	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	5.5	151
123	. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	70
122	Predictive energy management strategy for electric vehicles based on estimation of preceding vehicle future movements **2016**,		6
121	. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	29
120	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	1.4	45
119	Removal of NOx sensor ammonia cross sensitivity from contaminated measurements in Diesel-engine selective catalytic reduction systems. *Fuel*, **2015**, 150, 448-456	7.1	21

118	Robust energy-to-peak sideslip angle estimation with applications to ground vehicles. *Mechatronics* , **2015**, 30, 338-347	3	90
117	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	7.1	7
116	Robust control for four wheel independently-actuated electric ground vehicles by external yaw-moment generation. *International Journal of Automotive Technology*, **2015**, 16, 839-847	1.6	34
115	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	4.8	152
114	Robust two-mode-dependent controller design for networked control systems with random delays modelled by Markov chains. *International Journal of Control*, **2015**, 88, 2499-2509	1.5	24
113	NO$_x$ Sensor Reading Correction in Diesel Engine Selective Catalytic Reduction System Applications. *IEEE/ASME Transactions on Mechatronics*, **2015**, 1-1	5.5	3
112	Tutorial of model-based powertrain and aftertreatment system control design and implementation **2015**,		2
111	A least-squares regression based method for vehicle yaw moment of inertia estimation **2015**,		3
110	Human-centered feed-forward control of a vehicle steering system based on a driver's steering model **2015**,		6
109	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	4.8	9
108	Ammonia coverage ratio and input simultaneous estimation in ground vehicle selective catalytic reduction (SCR) systems. *Journal of the Franklin Institute*, **2015**, 352, 708-723	4	24
107	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	4	41
106	Cycle-based optimal NOx emission control of selective catalytic reduction systems with dynamic programming algorithm. *Fuel*, **2015**, 141, 200-206	7.1	30
105	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	4	54
104	Load-dependent observer design for active suspension systems. *International Journal of Vehicle Design*, **2015**, 68, 162	2.4	2
103	State estimation for a four-wheel-independent-drive electric ground vehicle **2015**,		2
102	Control-Oriented Modeling and Model-Based Estimation and Control for Diesel Engine Aftertreatment Systems. *Mechanical Engineering*, **2015**, 137, S11-S14	0.9	
101	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	1.4	5

100	State Estimation of Discrete-Time Takagi-Sugeno Fuzzy Systems in a Network Environment. *IEEE Transactions on Cybernetics*, **2015**, 45, 1525-36	10.2	106
99	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	1.4	9
98	. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 2222-2233	5.5	16
97	Robust fault estimation for time-varying and high-order faults in vehicle electric steering systems **2015**,		1
96	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	8
95	Stochastic optimal control for hybrid electric vehicles running on fixed routes **2015**,		5
94	Nonlinear Model Predictive Control of Integrated Diesel Engine and Selective Catalytic Reduction System for Simultaneous Fuel Economy Improvement and Emissions Reduction. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	16
93	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	14
92	Nonlinear Observer Design of Diesel Engine Selective Catalytic Reduction Systems With $hbox{NO}_{x}$ Sensor Measurements. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 1585-1594	5.5	32
91	. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 4985-4995	6.8	53
90	Air-fraction modeling for simultaneous Diesel engine NOx and PM emissions control during active DPF regenerations. *Applied Energy*, **2014**, 122, 310-320	10.7	47
89	. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 591-602	6.8	219
88	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	3.9	116
87	Robust finite frequency H∞ static-output-feedback control with application to vibration active control of structural systems. *Mechatronics*, **2014**, 24, 354-366	3	57
86	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	4.8	70
85	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	5.5	91
84	On Energy-to-Peak Filtering for Nonuniformly Sampled Nonlinear Systems: A Markovian Jump System Approach. *IEEE Transactions on Fuzzy Systems*, **2014**, 22, 212-222	8.3	192
83	A robust ammonia coverage ratio control method for a two-cell selective catalytic reduction system in low temperature operations **2014**,		5

82	Control of dual-loop EGR engine air-path systems with adjustable intake manifold condition priorities **2014**,		1
81	A robust wheel slip control design for in-wheel-motor-driven electric vehicles with hydraulic and regenerative braking systems **2014**,		5
80	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	3.2	79
79	A physics-based time-varying transport delay oxygen concentration model for dual-loop exhaust gas recirculation (EGR) engine air-paths. *Applied Energy*, **2014**, 125, 300-307	10.7	19
78	. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 4221-4231	6.8	29
77	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	11.9	70
76	Combined feedback feedforward tracking control for networked control systems with probabilistic delays. *Journal of the Franklin Institute*, **2014**, 351, 3477-3489	4	39
75	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	4.8	113
74	Experimental investigation of diesel and biodiesel post injections during active diesel particulate filter regenerations. *Fuel*, **2014**, 130, 286-295	7.1	51
73	Application of NMPC on optimization of ammonia coverage ratio references in two-can diesel SCR systems **2014**,		6
72	Robust Weighted Gain-Scheduling $H_{infty }$ Vehicle Lateral Motion Control With Considerations of Steering System Backlash-Type Hysteresis. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1740-1753	4.8	78
71	Sensitivity analysis of human driving characteristics on road and driving conditions for active vehicle control systems **2014**,		3
70	Advanced Control and Optimization with Applications to Complex Automotive Systems. *Mathematical Problems in Engineering*, **2014**, 2014, 1-3	1.1	2
69	Time-domain Smith predictor in discrete-time networked control systems **2014**,		1
68	A Stochastic Model Predictive Control Approach for Hybrid Electric Vehicle Energy Management With Road Grade Preview **2014**,		2
67	Robust gain-scheduling energy-to-peak control of vehicle lateral dynamics stabilisation. *Vehicle System Dynamics*, **2014**, 52, 309-340	2.8	211
66	. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 239-249	6.1	26
65	Linear parameter-varying-based fault-tolerant controller design for a class of over-actuated non-linear systems with applications to electric vehicles. *IET Control Theory and Applications*, **2014**, 8, 705-717	2.5	19

64	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	1.4	9
63	Output transient trajectory shaping control for a class of nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 3106-3123	3.6	0
62	Control-oriented model for integrated diesel engine and aftertreatment systems thermal management. *Control Engineering Practice*, **2014**, 22, 81-93	3.9	51
61	Control of diesel engine dual-loop EGR air-path systems by a singular perturbation method. *Control Engineering Practice*, **2013**, 21, 981-988	3.9	37
60	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	2.4	82
59	Center of gravity height real-time estimation for lightweight vehicles using tire instant effective radius. *Control Engineering Practice*, **2013**, 21, 370-380	3.9	25
58	Observer-Based Estimation of Air-Fractions for a Diesel Engine Coupled With Aftertreatment Systems. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 2239-2250	4.8	36
57	Nonlinear and adaptive control of NO/NO2 ratio for improving selective catalytic reduction system performance. *Journal of the Franklin Institute*, **2013**, 350, 1992-2012	4	19
56	Control-oriented multi-phase combustion model for biodiesel fueled engines. *Applied Energy*, **2013**, 108, 92-99	10.7	9
55	Tire□oad friction coefficient and tire cornering stiffness estimation based on longitudinal tire force difference generation. *Control Engineering Practice*, **2013**, 21, 65-75	3.9	75
54	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	6.8	86
53	Observer-based tracking controller design for networked predictive control systems with uncertain Markov delays. *International Journal of Control*, **2013**, 86, 1824-1836	1.5	86
52	A Dual-Loop EGR Engine Air-Path Oxygen Concentration Model With Time-Varying Transport Delays **2013**,		1
51	Observer Based Oxygen Fraction Estimation for a Dual-Loop EGR Diesel Engine Fueled With Biodiesel Blends **2013**,		3
50	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	14
49	Robust Filtering for Ammonia Coverage Estimation in Diesel Engine Selective Catalytic Reduction Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135,	1.6	26
48	Integrated diesel engine and selective catalytic reduction system active NOx control for fuel economy improvement **2013**,		2
47	Robust mixed H2/H□gain-scheduling observer design for removal of NOx sensor ammonia cross sensitivity in selective catalytic reduction systems **2013**,		1

46	Pressure-based transient intake manifold temperature reconstruction in Diesel engines. *Control Engineering Practice*, **2012**, 20, 531-538	3.9	15
45	Hand-wheel steering signal estimation and diagnosis approaches for ground vehicles. *Control Engineering Practice*, **2012**, 20, 654-662	3.9	8
44	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	6.8	101
43	Hybrid Electric Vehicle Model Predictive Control Torque-Split Strategy Incorporating Engine Transient Characteristics. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 2458-2467	6.8	138
42	Adaptive vehicle planar motion control with fast parameter estimation **2012**,		7
41	Control-oriented modeling of thermal behaviors for a Diesel oxidation catalyst **2012**,		3
40	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	4.8	93
39	In-wheel motor electric ground vehicle energy management strategy for maximizing the travel distance **2012**,		1
38	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	1.4	51
37	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	56
36	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	48
35	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	14
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