# Junmin Wang

List of Publications by Year
in descending order



| 250 | 9,503 | 31976 | 48315 |
|---|---|---|---|
| papers | citations | 53 h-index | 88 g-index |

| 251 | 251 | 251 | 4769 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | An Algebraic Evaluation Framework for a Class of Car-Following Models. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12366-12376. | 8.0 | 3 |
| 3 | Trust-Based and Individualizable Adaptive Cruise Control Using Control Barrier Function Approach With Prescribed Performance. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6974-6984. | 8.0 | 24 |
| 4 | 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 |
| 5 | Path-Tracking Considering Yaw Stability With Passivity-Based Control for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8736-8746. | 8.0 | 6 |
| 6 | Implementation Resource Allocation for Collision-Avoidance Assistance Systems Considering Driver Capabilities. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12822-12832. | 8.0 | 4 |
| 7 | 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 |
| 8 | Algebraic Driver Steering Model Parameter Identification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 1.6 | 7 |
| 9 | Robust Adaptive Path-Tracking Control of Autonomous Ground Vehicles With Considerations of Steering System Backlash. IEEE Transactions on Intelligent Vehicles, 2022, 7, 315-325. | 12.7 | 30 |
| 10 | 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 |
| 11 | Illumination-Resilient Lane Detection by Threshold Self-Adjustment Using Newton-Based Extremum Seeking. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18643-18654. | 8.0 | 4 |
| 12 | Extremum-Seeking-Based Adaptive Model-Free Control and Its Application to Automated Vehicle Path Tracking. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3874-3884. | 5.8 | 27 |
| 13 | Performance optimization of autonomous driving control under end-to-end deadlines. Real-Time Systems, 2022, 58, 509-547. | 1.3 | 2 |
| 14 | A Mixed L1/H2 Robust Observer With An Application To Driver Steering Torque Estimation for Autopilot-Human Shared Steering. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 1.6 | 4 |
| 15 | Yaw-Rate-Tracking-Based Automated Vehicle Path Following: An MRAC Methodology With a Closed-Loop Reference Model. ASME Letters in Dynamic Systems and Control, 2022, 2, . | 0.7 | 7 |
| 16 | Personalized Driving Behaviors and Fuel Economy Over Realistic Commute Traffic: Modeling, Correlation, and Prediction. IEEE Transactions on Vehicular Technology, 2022, 71, 7084-7094. | 6.3 | 4 |
| 17 | Automated Vehicle Path Following: A Non-Quadratic-Lyapunov-Function-Based Model Reference Adaptive Control Approach With C<sup>â^ž</sup>-Smooth Projection Modification. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21653-21664. | 8.0 | 11 |
| 18 | Autonomous Vehicle Trajectory Following: A Flatness Model Predictive Control Approach With Hardware-in-the-Loop Verification. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5613-5623. | 8.0 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fuzzy Observer-Based Transitional Path-Tracking Control for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3078-3088. | 8.0 | 60 |
| 20 | Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4160-4170. | 9.3 | 30 |
| 21 | A Parametric Study of Compliant Link Design for Safe Physical Humanâ€“Robot Interaction. Robotica, 2021, 39, 1739-1759. | 1.9 | 4 |
| 22 | Design, Modeling, and Manufacturing of a Variable Lateral Stiffness Arm Via Shape Morphing Mechanisms. Journal of Mechanisms and Robotics, 2021, 13, . | 2.2 | 5 |
| 23 | Popov-Hâˆž 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 |
| 24 | A Personalized Human-Like Lane-Changing Trajectory Planning Method for Automated Driving System. IEEE Transactions on Vehicular Technology, 2021, 70, 6399-6414. | 6.3 | 27 |
| 25 | Self-Adaptive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 189-202. | 6.3 | 20 |
| 26 | Real-Time Adaptive Threshold Adjustment for Lane Detection Application under Different Lighting Conditions using Model-Free Control. IFAC-PapersOnLine, 2021, 54, 147-152. | 0.9 | 3 |
| 27 | Algebraic Car-Following Model Parameter Identification. IFAC-PapersOnLine, 2021, 54, 864-869. | 0.9 | 4 |
| 28 | Parameterized Derivative-free Optimization Approach for Car-following Model Calibration. IFAC-PapersOnLine, 2021, 54, 876-881. | 0.9 | 1 |
| 29 | Comparison of Different Variable Combinations for Electric Vehicle Power Prediction Using Kernel Adaptive Filter. IFAC-PapersOnLine, 2021, 54, 858-863. | 0.9 | 1 |
| 30 | 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. | 1.9 | 5 |
| 31 | 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 |
| 32 | A Novel Vehicle Tracking Method for Cross-Area Sensor Fusion with Reinforcement Learning Based GMM. , 2020, , . | | 7 |
| 33 | 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 |
| 34 | 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 |
| 35 | Editorial: Connected and automated vehicles (CAV) based traffic-vehicle control. Transportation Research Part C: Emerging Technologies, 2020, 112, 116-119. | 7.6 | 4 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A Comparative Study on the Effect of Mechanical Compliance for a Safe Physical Humanâ€“Robot Interaction. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, . | 2.9 | 7 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | MC-Safe. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-27. | 2.5 | 7 |
| 42 | Real-Time Driver Model Parameter Identification: An Algebraic Approach. , 2020, , . | | 1 |
| 43 | Personalized Ground Vehicle Collision Avoidance System: From a Computational Resource Re-allocation Perspective. , 2020, , . | | 2 |
| 44 | Motor/Generator Applications in Electrified Vehicle Chassisâ€”A Survey. IEEE Transactions on Transportation Electrification, 2019, 5, 584-601. | 7.8 | 39 |
| 45 | Special Issue on â€œAutonomous Mobile Systemsâ€•in Memory of Professor J. Karl Hedrick. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, . | 1.6 | 0 |
| 46 | Modeling and control of inherently safe robots with variable stiffness links. Robotics and Autonomous Systems, 2019, 120, 103247. | 5.1 | 14 |
| 47 | 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 |
| 48 | Predictive Control for NO<sub>x</sub> Emission Reductions in Diesel Engine Vehicle Platoon Application. IEEE Transactions on Vehicular Technology, 2019, 68, 6429-6440. | 6.3 | 12 |
| 49 | Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. IEEE Access, 2019, 7, 66410-66422. | 4.2 | 25 |
| 50 | Fault-Tolerant Control for Electric Vehicles With Independently Driven in-Wheel Motors Considering Individual Driver Steering Characteristics. IEEE Transactions on Vehicular Technology, 2019, 68, 4527-4536. | 6.3 | 35 |
| 51 | Cascaded Velocity Estimation with Adaptive Complementary Filtering: Implementation on a FIAIWM EGV. , 2019, , . | | 1 |
| 52 | Cooperative Adaptive Cruise Control Safety Enhancement via Dynamic Communication Channel Selection. , 2019, , . | | 0 |
| 53 | A Predictive Control Method for Automotive Selective Catalytic Reduction Systems. , 2019, , . | | 3 |
| 54 | An Autonomous T-Intersection Driving Strategy Considering Oncoming Vehicles Based on Connected Vehicle Technology. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2779-2790. | 5.8 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Trajectory Tracking Control for Autonomous Vehicles in Different Cut-in Scenarios. , 2019, , . | | 12 |
| 56 | Flatness-based Model Predictive Control for Autonomous Vehicle Trajectory Tracking. , 2019, , . | | 9 |
| 57 | WiDrive: Adaptive WiFi-Based Recognition of Driver Activity for Real-Time and Safe Takeover. , 2019, , . | | 11 |
| 58 | Unsprung Mass Effects on Electric Vehicle Dynamics based on Coordinated Control Scheme. , 2019, , . | | 4 |
| 59 | Worst-case relative cost optimal control for dynamic systems with finite admissible disturbance sequence sets. International Journal of Control, 2019, , 1-8. | 1.9 | 1 |
| 60 | Driversâ€™ Attentional Instability on a Winding Roadway. IEEE Transactions on Human-Machine Systems, 2019, 49, 498-507. | 3.5 | 2 |
| 61 | 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 |
| 62 | 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 | 26 |
| 63 | 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 |
| 64 | A feedforward and feedback integrated lateral and longitudinal driver model for personalized advanced driver assistance systems. Mechatronics, 2018, 50, 177-188. | 3.3 | 52 |
| 65 | 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. | 6.3 | 37 |
| 66 | Robust Hâˆž 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Robust Gain-Scheduling Control of Vehicle Lateral Dynamics Through AFS/DYC. , 2018, , 339-368. | | 8 |
| 70 | Introducing mass parameters to Pseudoâ€“Rigidâ€“Body models for precisely predicting dynamics of compliant mechanisms. Mechanism and Machine Theory, 2018, 126, 273-294. | 4.5 | 17 |
| 71 | Output-feedback robust control for vehicle path tracking considering different human driversâ€™ characteristics. Mechatronics, 2018, 50, 402-412. | 3.3 | 43 |
| 72 | Improved NO and NO2 Concentration Estimation for a Diesel-Engine-Aftertreatment System. IEEE/ASME Transactions on Mechatronics, 2018, 23, 190-199. | 5.8 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | 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 |
| 74 | Design and Modeling of a Compliant Link for Inherently Safe Corobots. Journal of Mechanisms and Robotics, 2018, 10, . | 2.2 | 17 |
| 75 | Parameter Selection of an LTV-MPC Controller for Vehicle Path Tracking Considering CPU Computational Load. , 2018, , . | | 3 |
| 76 | Fault-tolerant Control for Distributed-drive Electric Vehicles Considering Individual Driver Steering Characteristics. , 2018, , . | | 0 |
| 77 | A Study on Economical Vehicle Platooning Strategy in Urban Driving Scenarios. , 2018, , . | | 2 |
| 78 | Dynamic Channel Selection for Real-Time Safety Message Communication in Vehicular Networks. , 2018, , . | | 3 |
| 79 | Personalized Vehicle Path Following Based on Robust Gain-scheduling Control in Lane-changing and Left-turning Maneuvers. , 2018, , . | | 7 |
| 80 | Globally energy-optimal speed planning for road vehicles on a given route. Transportation Research Part C: Emerging Technologies, 2018, 93, 148-160. | 7.6 | 40 |
| 81 | Sliding-mode Control of Ammonia Coverage Ratio for Automotive Selective Catalytic Reduction Systems. , 2018, , . | | 6 |
| 82 | Model-based Control of Automotive Selective Catalytic Reduction Systems with Road Grade Preview. , 2018, , . | | 2 |
| 83 | Rollover speed prediction on curves for heavy vehicles using mobile smartphone. Measurement: Journal of the International Measurement Confederation, 2018, 130, 404-411. | 5.0 | 31 |
| 84 | A Driver Steering Model With Personalized Desired Path Generation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 111-120. | 9.3 | 86 |
| 85 | Simultaneous Estimation of Vehicleâ€™s Center of Gravity and Inertial Parameters Based on Ackermannâ€™s Steering Geometry. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, . | 1.6 | 13 |
| 86 | 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. | 1.9 | 5 |
| 87 | 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 |
| 88 | A Stochastic Driver Pedal Behavior Model Incorporating Road Information. IEEE Transactions on Human-Machine Systems, 2017, 47, 614-624. | 3.5 | 45 |
| 89 | 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 |
| 90 | Control of aged automotive selective catalytic reduction systems for consistent performances. Journal of the Franklin Institute, 2017, 354, 8094-8116. | 3.4 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Integrated Power Management and Aftertreatment System Control for Hybrid Electric Vehicles With Road Grade Preview. IEEE Transactions on Vehicular Technology, 2017, 66, 10935-10945. | 6.3 | 23 |
| 92 | Robust fuzzy control for vehicle lateral dynamic stability via Takagi-Sugeno fuzzy approach. , 2017, , . | | 8 |
| 93 | Robust vehicle longitudinal motion control subject to in-wheel-motor driving torque variations. , 2017, , . | | 7 |
| 94 | Automatic vehicle trajectory tracking control with self-calibration of nonlinear tire force function. , 2017, , . | | 1 |
| 95 | Predictive energy management strategy for fully electric vehicles based on hybrid model predictive control. , 2017, , . | | 5 |
| 96 | 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 |
| 97 | 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 |
| 98 | 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 |
| 99 | 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 |
| 100 | Stable coordination of multiple PMSGs in an islanded DC microgrid: A distributed model predictive control approach. , 2017, , . | | 0 |
| 101 | Energy Consumption and Tailpipe Emission Reductions by Personalized Control of Connected Vehicles. Mechanical Engineering, 2017, 139, S5-S11. | 0.1 | 1 |
| 102 | Real-time-implementable relative cost min-max optimal control via a dynamic-programming-like method. , 2016, , . | | 0 |
| 103 | Traffic signal timing optimization incorporating individual vehicle fuel consumption characteristics under connected vehicles environment. , 2016, , . | | 7 |
| 104 | Comparative Study and Accommodation of Biodiesel in Dieselâ€Electric Hybrid Vehicles Coupled with Aftertreatment Systems. Asian Journal of Control, 2016, 18, 3-15. | 3.0 | 8 |
| 105 | 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 |
| 106 | Active Steering Actuator Fault Detection for An Automatically-steered Electric Ground Vehicle. IEEE Transactions on Vehicular Technology, 2016, , 1-1. | 6.3 | 91 |
| 107 | Linear parameter-varying observer design for vehicle yaw rate sensor bias estimation and signal reconstruction. , 2016, , . | | 2 |
| 108 | Predictive energy management strategy for electric vehicles based on estimation of preceding vehicle future movements. , 2016, , . | | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Model-based selective catalytic reduction systems aging estimation. , 2016, , . | | 1 |
| 110 | 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 |
| 111 | A control method for consistent performance of automotive selective catalytic reduction systems under variant aging conditions. , 2016, , . | | 2 |
| 112 | Trajectory replanning in V2V lane exchanging with consideration of driver preferences. , 2016, , . | | 1 |
| 113 | A novel diver pedal behavior model framework incorporating vehicle and road environment information. , 2016, , . | | 2 |
| 114 | Integrated Model Predictive Control of Hybrid Electric Vehicles Coupled With Aftertreatment Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 1199-1211. | 6.3 | 32 |
| 115 | Vehicle Lateral Dynamics Control Through AFS/DYC and Robust Gain-Scheduling Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 489-494. | 6.3 | 289 |
| 116 | Optimal Dosing and Sizing Optimization for a Ground-Vehicle Diesel-Engine Two-Cell Selective Catalytic Reduction System. IEEE Transactions on Vehicular Technology, 2016, 65, 4740-4751. | 6.3 | 29 |
| 117 | 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 |
| 118 | A two-level stochastic approach to optimize the energy management strategy for fixed-route hybrid electric vehicles. Mechatronics, 2016, 38, 93-102. | 3.3 | 37 |
| 119 | Dynamic Traffic Signal Timing Optimization Strategy Incorporating Various Vehicle Fuel Consumption Characteristics. IEEE Transactions on Vehicular Technology, 2016, 65, 3874-3887. | 6.3 | 61 |
| 120 | Sideslip Angle Estimation of an Electric Ground Vehicle via Finite-Frequency $mathcal {H}_{infty}$ Approach. IEEE Transactions on Transportation Electrification, 2016, 2, 200-209. | 7.8 | 50 |
| 121 | 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 |
| 122 | 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 |
| 123 | Load-dependent observer design for active suspension systems. International Journal of Vehicle Design, 2015, 68, 162. | 0.3 | 2 |
| 124 | State estimation for a four-wheel-independent-drive electric ground vehicle. , 2015, , . | | 3 |
| 125 | Control-Oriented Modeling and Model-Based Estimation and Control for Diesel Engine Aftertreatment Systems. Mechanical Engineering, 2015, 137, S11-S14. | 0.1 | 0 |
| 126 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | State Estimation of Discrete-Time Takagiâ€“Sugeno Fuzzy Systems in a Network Environment. IEEE Transactions on Cybernetics, 2015, 45, 1525-1536. | 9.5 | 115 |
| 128 | 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 |
| 129 | Sensor Reduction in Diesel Engine Two-Cell Selective Catalytic Reduction (SCR) Systems for Automotive Applications. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2222-2233. | 5.8 | 20 |
| 130 | Robust fault estimation for time-varying and high-order faults in vehicle electric steering systems. , 2015, , . | | 2 |
| 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 | Stochastic optimal control for hybrid electric vehicles running on fixed routes. , 2015, , . | | 7 |
| 133 | Directional Control Driver Model with Desired Path Generation. , 2015, , . | | 0 |
| 134 | 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 | 32 |
| 135 | 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 |
| 136 | Nonlinear Observer Design of Diesel Engine Selective Catalytic Reduction Systems With <inline-formula> <tex-math>$hbox{NO}_{x}$</tex-math></inline-formula> Sensor Measurements. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1585-1594. | 5.8 | 42 |
| 137 | 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 |
| 138 | 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 |
| 139 | Removal of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NO</mml:mtext></mml:mrow><mml:mrow><mml:mtext>x</mml: sensor ammonia cross sensitivity from contaminated measurements in Diesel-engine selective catalytic reduction systems. Fuel, 2015, 150, 448-456. | 6.4 | 29 |
| 140 | Robust energy-to-peak sideslip angle estimation with applications to ground vehicles. Mechatronics, 2015, 30, 338-347. | 3.3 | 108 |
| 141 | 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 |
| 142 | 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 |
| 143 | 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 |
| 144 | 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. | 1.9 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Adaptive control of two-cell selective catalytic reduction systems. , 2015, , . | | 0 |
| 146 | NOx Sensor Reading Correction in Diesel Engine Selective Catalytic Reduction System Applications. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1. | 5.8 | 10 |
| 147 | Tutorial of model-based powertrain and aftertreatment system control design and implementation. , 2015, , . | | 2 |
| 148 | A least-squares regression based method for vehicle yaw moment of inertia estimation. , 2015, , . | | 8 |
| 149 | Human-centered feed-forward control of a vehicle steering system based on a driver's steering model. , 2015, , . | | 7 |
| 150 | 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 |
| 151 | Ammonia coverage ratio and input simultaneous estimation in ground vehicle selective catalytic reduction (SCR) systems. Journal of the Franklin Institute, 2015, 352, 708-723. | 3.4 | 29 |
| 152 | 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 |
| 153 | Cycle-based optimal NOx emission control of selective catalytic reduction systems with dynamic programming algorithm. Fuel, 2015, 141, 200-206. | 6.4 | 39 |
| 154 | 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 |
| 155 | Application of NMPC on optimization of ammonia coverage ratio references in two-can diesel SCR systems. , 2014, , . | | 6 |
| 156 | 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. | 5.2 | 111 |
| 157 | Sensitivity analysis of human driving characteristics on road and driving conditions for active vehicle control systems. , 2014, , . | | 5 |
| 158 | Advanced Control and Optimization with Applications to Complex Automotive Systems. Mathematical Problems in Engineering, 2014, 2014, 1-3. | 1.1 | 4 |
| 159 | Time-domain Smith predictor in discrete-time networked control systems. , 2014, , . | | 1 |
| 160 | A Stochastic Model Predictive Control Approach for Hybrid Electric Vehicle Energy Management With Road Grade Preview. , 2014, , . | | 2 |
| 161 | Robust gain-scheduling energy-to-peak control of vehicle lateral dynamics stabilisation. Vehicle System Dynamics, 2014, 52, 309-340. | 3.7 | 273 |
| 162 | Actuator-Redundancy-Based Fault Diagnosis for Four-Wheel Independently Actuated Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 239-249. | 8.0 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Linear parameterâ€varyingâ€based faultâ€tolerant controller design for a class of overâ€actuated nonâ€linear systems with applications to electric vehicles. IET Control Theory and Applications, 2014, 8, 705-717. | 2.1 | 23 |
| 164 | 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 |
| 165 | Output transient trajectory shaping control for a class of nonlinear systems. International Journal of Robust and Nonlinear Control, 2014, 24, 3106-3123. | 3.7 | 2 |
| 166 | Control-oriented model for integrated diesel engine and aftertreatment systems thermal management. Control Engineering Practice, 2014, 22, 81-93. | 5.5 | 69 |
| 167 | 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 |
| 168 | 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 |
| 169 | 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 |
| 170 | Robust finite frequency static-output-feedback control with application to vibration active control of structural systems. Mechatronics, 2014, 24, 354-366. | 3.3 | 69 |
| 171 | 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 |
| 172 | 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 |
| 173 | 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 |
| 174 | A robust ammonia coverage ratio control method for a two-cell selective catalytic reduction system in low temperature operations. , 2014, , . | | 7 |
| 175 | Control of dual-loop EGR engine air-path systems with adjustable intake manifold condition priorities. , 2014, , . | | 2 |
| 176 | A robust wheel slip control design for in-wheel-motor-driven electric vehicles with hydraulic and regenerative braking systems. , 2014, , . | | 11 |
| 177 | Robust H âˆž 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 |
| 178 | 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. | 10.1 | 22 |
| 179 | Real-Time Estimation of Center of Gravity Position for Lightweight Vehicles Using Combined AKFâ€“EKF Method. IEEE Transactions on Vehicular Technology, 2014, 63, 4221-4231. | 6.3 | 54 |
| 180 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Combined feedbackâ€“feedforward tracking control for networked control systems with probabilistic delays. Journal of the Franklin Institute, 2014, 351, 3477-3489. | 3.4 | 41 |
| 182 | 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 |
| 183 | Experimental investigation of diesel and biodiesel post injections during active diesel particulate filter regenerations. Fuel, 2014, 130, 286-295. | 6.4 | 73 |
| 184 | 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 |
| 185 | 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 |
| 186 | Center of gravity height real-time estimation for lightweight vehicles using tire instant effective radius. Control Engineering Practice, 2013, 21, 370-380. | 5.5 | 36 |
| 187 | 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 |
| 188 | Nonlinear and adaptive control of NO/NO2 ratio for improving selective catalytic reduction system performance. Journal of the Franklin Institute, 2013, 350, 1992-2012. | 3.4 | 27 |
| 189 | Control-oriented multi-phase combustion model for biodiesel fueled engines. Applied Energy, 2013, 108, 92-99. | 10.1 | 13 |
| 190 | Tireâ€“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 |
| 191 | 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 |
| 192 | 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 |
| 193 | A Dual-Loop EGR Engine Air-Path Oxygen Concentration Model With Time-Varying Transport Delays. , 2013, , . | | 1 |
| 194 | Observer Based Oxygen Fraction Estimation for a Dual-Loop EGR Diesel Engine Fueled With Biodiesel Blends. , 2013, , . | | 3 |
| 195 | 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 |
| 196 | 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 | 37 |
| 197 | Integrated diesel engine and selective catalytic reduction system active NO<inf>x</inf> control for fuel economy improvement. , 2013, , . | | 8 |
| 198 | Robust mixed ℌ<inf>2</inf>/ℌ<inf>∞</inf> gain-scheduling observer design for removal of NO<inf>x</inf> sensor ammonia cross sensitivity in selective catalytic reduction systems. , 2013, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | In-wheel motor electric ground vehicle energy management strategy for maximizing the travel distance. , 2012, , . | | 5 |
| 200 | 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 |
| 201 | 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 |
| 202 | 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 |
| 203 | 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 |
| 204 | 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 |
| 205 | Air- and fuel-path coordinated control for advanced combustion mode transitions in Diesel engines. , 2012, , . | | 3 |
| 206 | A branch-and-bound algorithm for energy-efficient control allocation with applications to planar motion control of electric ground vehicles. , 2012, , . | | 0 |
| 207 | Adaptive vehicle planar motion control with fast parameter estimation. , 2012, , . | | 8 |
| 208 | Control-oriented modeling of thermal behaviors for a Diesel oxidation catalyst. , 2012, , . | | 4 |
| 209 | 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 |
| 210 | Pressure-based transient intake manifold temperature reconstruction in Diesel engines. Control Engineering Practice, 2012, 20, 531-538. | 5.5 | 18 |
| 211 | Hand-wheel steering signal estimation and diagnosis approaches for ground vehicles. Control Engineering Practice, 2012, 20, 654-662. | 5.5 | 8 |
| 212 | 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 |
| 213 | 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 |
| 214 | Stability control of electric vehicles with four independently actuated wheels. , 2011, , . | | 6 |
| 215 | 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 |
| 216 | Fuel-assisted in-cylinder oxygen fraction transient trajectory shaping control for diesel engine combustion mode switching. , 2011, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Energy-efficient control allocation with applications on planar motion control of electric ground vehicles. , 2011, , . | | 25 |
| 218 | 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 |
| 219 | Development and experimental validation of a control-oriented Diesel engine model for fuel consumption and brake torque predictions. Mathematical and Computer Modelling of Dynamical Systems, 2011, 17, 261-277. | 2.2 | 30 |
| 220 | Oxygen Concentration Dynamic Model Through a Diesel Engine Aftertreatment System. , 2011, , . | | 2 |
| 221 | 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 |
| 222 | Lightweight Vehicle Control-Oriented Modeling and Payload Parameter Sensitivity Analysis. IEEE Transactions on Vehicular Technology, 2011, 60, 1999-2011. | 6.3 | 34 |
| 223 | 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 |
| 224 | 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 |
| 225 | 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 |
| 226 | 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 |
| 227 | A global optimization algorithm for energy-efficient control allocation of over-actuated systems. , 2011, , . | | 4 |
| 228 | An adaptive energy-efficient control allocation on planar motion control of electric ground vehicles. , 2011, , . | | 12 |
| 229 | 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 |
| 230 | Control of dual loop EGR air-path systems for advanced combustion diesel engines by a singular perturbation methodology. , 2011, , . | | 3 |
| 231 | Fault-tolerant control with active fault diagnosis for four-wheel independently-driven electric ground vehicles. , 2011, , . | | 11 |
| 232 | Nonlinear model predictive control for improving energy recovery for electric vehicles during regenerative braking. , 2011, , . | | 7 |
| 233 | An extended Kalman filter for NO<inf>x</inf> sensor ammonia cross-sensitivity elimination in selective catalytic reduction applications. , 2010, , . | | 20 |
| 234 | Input constrained non-equilibrium transient trajectory shaping control for a class of nonlinear systems. , 2010, , . | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Non-equilibrium transient trajectory shaping control via multiple Barrier Lyapunov Functions for a class of nonlinear systems. , 2010, , . | | 4 |
| 236 | An extended Kalman filter for ammonia coverage ratio and capacity estimations in the application of Diesel engine SCR control and onboard diagnosis. , 2010, , . | | 14 |
| 237 | Staircase ammonia coverage ratio profile control for Diesel engine two-cell selective catalytic reduction systems. , 2010, , . | | 9 |
| 238 | In-cylinder oxygen mass fraction cycle-by-cycle estimation via a lyapunov-based observer design. , 2010, , . | | 8 |
| 239 | Vehicle-longitudinal-motion-independent real-time tire-road friction coefficient estimation. , 2010, , . | | 5 |
| 240 | Two-Level Nonlinear Model Predictive Control for Lean NOx Trap Regenerations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, . | 1.6 | 29 |
| 241 | Non-equilibrium transient trajectory shaping control via a three-stage switching method for a class of nonlinear systems. , 2010, , . | | 2 |
| 242 | Vehicle yaw inertia and mass independent adaptive control for stability and trajectory tracking enhancements. , 2009, , . | | 4 |
| 243 | Nonlinear observer designs for diesel engine selective catalytic reduction (SCR) ammonia coverage ratio estimation. , 2009, , . | | 14 |
| 244 | Autonomous ground vehicle control system for high-speed and safe operation. International Journal of Vehicle Autonomous Systems, 2009, 7, 18. | 0.2 | 48 |
| 245 | Nonlinear model predictive control of lean NO<inf>x</inf> trap regenerations. , 2009, , . | | 7 |
| 246 | Coordinated and Reconfigurable Vehicle Dynamics Control. IEEE Transactions on Control Systems Technology, 2009, 17, 723-732. | 5.2 | 231 |
| 247 | Air fraction estimation for multiple combustion mode diesel engines with dual-loop EGR systems. Control Engineering Practice, 2008, 16, 1479-1486. | 5.5 | 99 |
| 248 | 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 |
| 249 | On the Control Allocation for Coordinated Ground Vehicle Dynamics Control Systems. Proceedings of the American Control Conference, 2007, , . | 0.0 | 27 |
| 250 | Analysis of Human Driver Behavior in Highway Cut-in Scenarios. , 0, , . | | 16 |