

Huie Peng

List of Publications by Year in descending order

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202
papers

13,864
citations

25034

57
h-index

25787

108
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203
all docs

203
docs citations

203
times ranked

7791
citing authors

#	ARTICLE	IF	CITATIONS
1	Vehicle Energy Dataset (VED), A Large-Scale Dataset for Vehicle Energy Consumption Research. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3302-3312.	8.0	30
2	Confidence-Aware Reinforcement Learning for Self-Driving Cars. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7419-7430.	8.0	26
3	Combined Eco-Routing and Power-Train Control of Plug-In Hybrid Electric Vehicles in Transportation Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11287-11300.	8.0	6
4	Eco-Mobility-on-Demand Fleet Control With Ride-Sharing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3158-3168.	8.0	2
5	System and Experiments of Model-Driven Motion Planning and Control for Autonomous Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5975-5988.	9.3	16
6	Trustworthy safety improvement for autonomous driving using reinforcement learning. Transportation Research Part C: Emerging Technologies, 2022, 138, 103656.	7.6	18
7	Comprehensive Safety Evaluation of Highly Automated Vehicles at the Roundabout Scenario. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20873-20888.	8.0	6
8	Decentralized Ride-sharing of Shared Autonomous Vehicles Using Graph Neural Network-Based Reinforcement Learning. , 2022, , .		1
9	Preview Path Tracking Control With Delay Compensation for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2979-2989.	8.0	54
10	Highway Exiting Planner for Automated Vehicles Using Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 990-1000.	8.0	30
11	Landmark Attribute Analysis for a High-Precision Landmark-Based Local Positioning System. IEEE Access, 2021, 9, 18061-18071.	4.2	3
12	SUPER: A Novel Lane Detection System. IEEE Transactions on Intelligent Vehicles, 2021, 6, 583-593.	12.7	27
13	Graph-Embedded Lane Detection. IEEE Transactions on Image Processing, 2021, 30, 2977-2988.	9.8	15
14	Combining Reachability Analysis and Importance Sampling for Accelerated Evaluation of Highway Automated Vehicles at Pedestrian Crossing. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.7	5
15	Design, Analysis, and Experiments of Preview Path Tracking Control for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 48-58.	8.0	188
16	Mode Shift Schedule and Control Strategy Design of Multimode Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2020, 28, 804-815.	5.2	23
17	Developing Robot Driver Etiquette Based on Naturalistic Human Driving Behavior. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1393-1403.	8.0	13
18	A Rule-Based Cooperative Merging Strategy for Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3436-3446.	8.0	81

#	ARTICLE	IF	CITATIONS
19	Design and Test of Speed Tracking Control for the Self-Driving Lincoln MKZ Platform. IEEE Transactions on Intelligent Vehicles, 2020, 5, 324-334.	12.7	15
20	Generating Socially Acceptable Perturbations for Efficient Evaluation of Autonomous Vehicles. , 2020, , ,		6
21	Synchronization of Pulse-and-Glide Operation in Vehicle Platooning using Cooperative Adaptive Cruise Control. , 2020, , ,		1
22	Designing Multi-Mode Power Split Hybrid Electric Vehicles Using the Hierarchical Topological Graph Theory. IEEE Transactions on Vehicular Technology, 2020, 69, 7159-7171.	6.3	15
23	A novel power management strategy for hybrid off-road vehicles. Control Engineering Practice, 2020, 101, 104452.	5.5	8
24	Design and Experiments of Safeguard Protected Preview Lane Keeping Control for Autonomous Vehicles. IEEE Access, 2020, 8, 29944-29953.	4.2	19
25	Penetration effect of connected and automated vehicles on cooperative on-ramp merging. IET Intelligent Transport Systems, 2020, 14, 56-64.	3.0	27
26	CLAP: Cloud-and-Learning-compatible Autonomous driving Platform. , 2020, , ,		5
27	Validating Noncooperative Control Designs Through a Lyapunov Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 527-539.	5.2	9
28	Power Loss Minimization in Islanded Microgrids: A Communication-Free Decentralized Power Control Approach Using Extremum Seeking. IEEE Access, 2019, 7, 20879-20893.	4.2	9
29	Discretionary Lane Change Decision Making using Reinforcement Learning with Model-Based Exploration. , 2019, , ,		12
30	Modeling Multi-Vehicle Interaction Scenarios Using Gaussian Random Field. , 2019, , ,		14
31	Power consumption of tracked and wheeled small mobile robots on deformable terrains—model and experimental validation. Mechanism and Machine Theory, 2019, 133, 347-364.	4.5	26
32	Improving Localization Accuracy in Connected Vehicle Networks Using Rao-Blackwellized Particle Filters: Theory, Simulations, and Experiments. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2255-2266.	8.0	22
33	Enhancing the Performance of a Safe Controller Via Supervised Learning for Truck Lateral Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, ,	1.6	12
34	Pulse-and-Glide Operation for Parallel Hybrid Electric Vehicles with Step-Gear Transmission in Automated Car-Following Scenario with Ride Comfort Consideration. , 2019, , ,		10
35	Design and Comparison of Fuel-Saving Speed Planning Algorithms for Automated Vehicles. IEEE Access, 2018, 6, 9070-9080.	4.2	41
36	Hybrid Electric Powertrain Design Methodology With Planetary Gear Sets for Performance and Fuel Economy. IEEE Access, 2018, 6, 9585-9602.	4.2	38

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37	An Apparatus to Measure Wheel-Soil Interactions on Sandy Terrains. IEEE/ASME Transactions on Mechatronics, 2018, 23, 352-363.	5.8	21
38	Simultaneous optimization of topology, control and size for multi-mode hybrid tracked vehicles. Applied Energy, 2018, 212, 1627-1641.	10.1	47
39	Obstacle Avoidance for Low-Speed Autonomous Vehicles With Barrier Function. IEEE Transactions on Control Systems Technology, 2018, 26, 194-206.	5.2	113
40	Accelerated Evaluation of Automated Vehicles in Car-Following Maneuvers. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 733-744.	8.0	124
41	Hybrid Lithium Iron Phosphate Battery and Lithium Titanate Battery Systems for Electric Buses. IEEE Transactions on Vehicular Technology, 2018, 67, 956-965.	6.3	42
42	Modelling of uncertain reactive human driving behavior: a classification approach. , 2018, , .		6
43	Eco-driving at Signalized Intersections: What is Possible in the Real-World?. , 2018, , .		10
44	Data-Driven Computation of Minimal Robust Control Invariant Set. , 2018, , .		26
45	Efficient Mobility-on-Demand System with Ride-Sharing. , 2018, , .		5
46	An Augmented Reality Environment for Connected and Automated Vehicle Testing and Evaluation. , 2018, , .		29
47	Accelerated Evaluation of Autonomous Vehicles in the Lane Change Scenario Based on Subset Simulation Technique. , 2018, , .		22
48	Accurate and Smooth Speed Control for an Autonomous Vehicle. , 2018, , .		28
49	Progress review of US-China joint research on advanced technologies for plug-in electric vehicles. Science China Technological Sciences, 2018, 61, 1431-1445.	4.0	16
50	Minimize the Fuel Consumption of Connected Vehicles Between Two Red-Signalized Intersections in Urban Traffic. IEEE Transactions on Vehicular Technology, 2018, 67, 9060-9072.	6.3	47
51	Optimal design of power-split hybrid tracked vehicles using two planetary gears. International Journal of Vehicle Design, 2018, 77, 43.	0.3	0
52	State-of-Charge Estimation for Lithium-Ion Batteries Based on a Nonlinear Fractional Model. IEEE Transactions on Control Systems Technology, 2017, 25, 3-11.	5.2	121
53	Empirical Study of DSRC Performance Based on Safety Pilot Model Deployment Data. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2619-2628.	8.0	45
54	Fast Trajectory Planning and Robust Trajectory Tracking for Pedestrian Avoidance. IEEE Access, 2017, 5, 9304-9317.	4.2	16

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55	Evaluation of automated vehicles encountering pedestrians at unsignalized crossings. , 2017, , .		27
56	Decentralized chassis control with guaranteed performance: A lyapunov approach. , 2017, , .		0
57	Correct by construction design of autonomous vehicles through a barrier function method. , 2017, , .		3
58	Accelerated Evaluation of Automated Vehicles Safety in Lane-Change Scenarios Based on Importance Sampling Techniques. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 595-607.	8.0	237
59	Speed trajectory planning at signalized intersections using sequential convex optimization. , 2017, , .		26
60	Optimal Design of a Novel Hybrid Electric Powertrain for Tracked Vehicles. Energies, 2017, 10, 2141.	3.1	10
61	A Method for the Exploration of Hybrid Electric Powertrain Architectures with Two Planetary Gearsets. SAE International Journal of Alternative Powertrains, 2016, 5, 94-108.	0.8	6
62	Simultaneous Optimization of Topology and Component Sizes for Double Planetary Gear Hybrid Powertrains. Energies, 2016, 9, 411.	3.1	38
63	Predictive control and sizing of energy storage to mitigate wind power intermittency. Wind Energy, 2016, 19, 437-451.	4.2	15
64	Rapid Configuration Design of Multiple-Planetary-Gear Power-Split Hybrid Powertrain via Mode Combination. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2924-2934.	5.8	46
65	State-of-health monitoring of lithium-ion battery modules and packs via incremental capacity peak tracking. Applied Energy, 2016, 180, 360-368.	10.1	235
66	Connected and Automated Vehicles. Mechanical Engineering, 2016, 138, S5-S11.	0.1	10
67	Synthesis of Realistic Driving Cycles With High Accuracy and Computational Speed, Including Slope Information. IEEE Transactions on Vehicular Technology, 2016, 65, 4118-4128.	6.3	72
68	Gap Acceptance During Lane Changes by Large-Truck Driversâ€”An Image-Based Analysis. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 772-781.	8.0	17
69	Fuel-Saving Cruising Strategies for Parallel HEVs. IEEE Transactions on Vehicular Technology, 2016, 65, 4676-4686.	6.3	55
70	Design of Multimode Power-Split Hybrid Vehiclesâ€”A Case Study on the Voltec Powertrain System. IEEE Transactions on Vehicular Technology, 2016, 65, 4790-4801.	6.3	63
71	Correct-by-Construction Adaptive Cruise Control: Two Approaches. IEEE Transactions on Control Systems Technology, 2016, 24, 1294-1307.	5.2	114
72	Effect of Pulseâ€”andâ€”Glide Strategy on Traffic Flow for a Platoon of Mixed Automated and Manually Driven Vehicles. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 892-905.	9.8	69

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73	Fractional-order modeling and parameter identification for lithium-ion batteries. Journal of Power Sources, 2015, 293, 151-161.	7.8	174
74	Eco-Departure of Connected Vehicles With V2X Communication at Signalized Intersections. IEEE Transactions on Vehicular Technology, 2015, 64, 5439-5449.	6.3	107
75	Fuel-Optimal Cruising Strategy for Road Vehicles With Step-Gear Mechanical Transmission. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3496-3507.	8.0	65
76	A Near-Optimal Power Management Strategy for Rapid Component Sizing of Multimode Power Split Hybrid Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 609-618.	5.2	66
77	Model Parametrization and Adaptation Based on the Invariance of Support Vectors With Applications to Battery State-of-Health Monitoring. IEEE Transactions on Vehicular Technology, 2015, 64, 3908-3917.	6.3	51
78	Characterization of penetration induced thermal runaway propagation process within a large format lithium ion battery module. Journal of Power Sources, 2015, 275, 261-273.	7.8	372
79	Energy management of plug-in hybrid electric vehicles with unknown trip length. Journal of the Franklin Institute, 2015, 352, 500-518.	3.4	37
80	Preliminary results on correct-by-construction control software synthesis for adaptive cruise control. , 2014, , .		28
81	An electrochemistry-based impedance model for lithium-ion batteries. Journal of Power Sources, 2014, 258, 9-18.	7.8	140
82	Robust Vehicle Sideslip Angle Estimation Through a Disturbance Rejection Filter That Integrates a Magnetometer With GPS. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 191-204.	8.0	64
83	A Cost-Effective Sideslip Estimation Method Using Velocity Measurements From Two GPS Receivers. IEEE Transactions on Vehicular Technology, 2014, 63, 2589-2599.	6.3	61
84	Comparison of discrete element method and traditional modeling methods for steady-state wheel-terrain interaction of small vehicles. Journal of Terramechanics, 2014, 56, 61-75.	3.1	42
85	Characterization of large format lithium ion battery exposed to extremely high temperature. Journal of Power Sources, 2014, 272, 457-467.	7.8	142
86	Life cycle cost analysis of wind power considering stochastic uncertainties. Energy, 2014, 75, 411-418.	8.8	9
87	A unified open-circuit-voltage model of lithium-ion batteries for state-of-charge estimation and state-of-health monitoring. Journal of Power Sources, 2014, 258, 228-237.	7.8	273
88	Keeping Ground Robots on the Move Through Battery & Mission Management. Mechanical Engineering, 2014, 136, S1-S6.	0.1	3
89	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	9.0	62
90	Modeling of wheel-soil interaction over rough terrain using the discrete element method. Journal of Terramechanics, 2013, 50, 277-287.	3.1	78

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91	Robust Estimation of Road Frictional Coefficient. IEEE Transactions on Control Systems Technology, 2013, 21, 1-13.	5.2	108
92	Optimal Energy and Catalyst Temperature Management of Plug-in Hybrid Electric Vehicles for Minimum Fuel Consumption and Tail-Pipe Emissions. IEEE Transactions on Control Systems Technology, 2013, 21, 14-26.	5.2	74
93	Reducing CO2 emissions on the electric grid through a carbon disincentive policy. Energy Policy, 2013, 60, 793-802.	8.8	5
94	On-board state of health monitoring of lithium-ion batteries using incremental capacity analysis with support vector regression. Journal of Power Sources, 2013, 235, 36-44.	7.8	405
95	Decentralized Voltage Control to Minimize Distribution Power Loss of Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1297-1304.	9.0	70
96	Charging time and loss optimization for LiNMC and LiFePO4 batteries based on equivalent circuit models. Journal of Power Sources, 2013, 239, 449-457.	7.8	127
97	A simplified skid-steering model for torque and power analysis of tracked small unmanned ground vehicles. , 2013, , .		4
98	Control of Engine-Starts for Optimal Drivability of Parallel Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	43
99	Decentralized and Real-Time Power Dispatch Control for an Islanded Microgrid Supported by Distributed Power Sources. Energies, 2013, 6, 6439-6454.	3.1	26
100	Comparative Study of Dynamic Programming and Pontryagin's Minimum Principle on Energy Management for a Parallel Hybrid Electric Vehicle. Energies, 2013, 6, 2305-2318.	3.1	193
101	Fast analytical models of wheeled locomotion in deformable terrain for mobile robots. Robotica, 2013, 31, 35-53.	1.9	20
102	A near-optimal power management strategy for rapid component sizing of power split hybrid vehicles with multiple operating modes. , 2013, , .		6
103	MPC for reducing energy storage requirement of wind power systems. , 2013, , .		11
104	Hybrid and Electrified Vehicles. Mechanical Engineering, 2013, 135, S10-S17.	0.1	11
105	Combined Optimal Sizing and Control for a Hybrid Tracked Vehicle. Energies, 2012, 5, 4697-4710.	3.1	58
106	Terramechanics-based wheel-terrain interaction model and its applications to off-road wheeled mobile robots. Robotica, 2012, 30, 491-503.	1.9	25
107	Velocity occupancy space: autonomous navigation in an uncertain, dynamic environment. International Journal of Vehicle Autonomous Systems, 2012, 10, 41.	0.2	6
108	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5

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109	Integration of plug-in electric vehicle charging and wind energy scheduling on electricity grid. , 2012, , .		12
110	Robustness analysis of State-of-Charge estimation methods for two types of Li-ion batteries. Journal of Power Sources, 2012, 217, 209-219.	7.8	163
111	Robust estimation of road friction coefficient using lateral and longitudinal vehicle dynamics. Vehicle System Dynamics, 2012, 50, 961-985.	3.7	73
112	A comparative study of equivalent circuit models for Li-ion batteries. Journal of Power Sources, 2012, 198, 359-367.	7.8	1,500
113	Minimum Fuel Control Strategy in Automated Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2012, 61, 998-1007.	6.3	125
114	Online estimation of an electric vehicle Lithium-Ion battery using recursive least squares with forgetting. , 2011, , .		35
115	Robust estimation of road friction coefficient. , 2011, , .		9
116	Fast computation of wheel-soil interactions for safe and efficient operation of mobile robots. , 2011, , .		1
117	Vehicle dynamics applications of optimal control theory. Vehicle System Dynamics, 2011, 49, 1073-1111.	3.7	99
118	Optimal Control of Hybrid Electric Vehicles Based on Pontryagin's Minimum Principle. IEEE Transactions on Control Systems Technology, 2011, 19, 1279-1287.	5.2	614
119	Real-Time Power Management of Integrated Power Systems in All Electric Ships Leveraging Multi Time Scale Property. IEEE Transactions on Control Systems Technology, 2011, , .	5.2	29
120	Impact of controlled plug-in EVs on microgrids: A military microgrid example. , 2011, , .		31
121	Optimal decentralized charging control algorithm for electrified vehicles connected to smart grid. Journal of Power Sources, 2011, 196, 10369-10379.	7.8	181
122	Design and Analysis of an Electrical Variable Transmission for a Series-Parallel Hybrid Electric Vehicle. IEEE Transactions on Vehicular Technology, 2011, 60, 2354-2363.	6.3	65
123	Study on the optimal design of engine cylinder head by parametric structure characterization with weight distribution criterion. Journal of Mechanical Science and Technology, 2011, 25, 2607-2614.	1.5	6
124	A reference governor-based hierarchical control for failure mode power management of hybrid power systems for all-electric ships. Journal of Power Sources, 2011, 196, 1599-1607.	7.8	22
125	Predicting current density distribution of proton exchange membrane fuel cells with different flow field designs. Journal of Power Sources, 2011, 196, 1992-2004.	7.8	27
126	Transportation electrification education for K-12 students. , 2011, , .		0

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127	Supervisory Control of Parallel Hybrid Electric Vehicles for Fuel and Emission Reduction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	79
128	Decentralized charging algorithm for electrified vehicles connected to smart grid. , 2011, , .		18
129	Optimal catalyst temperature management of Plug-in Hybrid Electric Vehicles. , 2011, , .		1
130	Fast and robust 2D minkowski sum using reduced convolution. , 2011, , .		2
131	SP-SDP for Fuel Consumption and Tailpipe Emissions Minimization in an EVT Hybrid. IEEE Transactions on Control Systems Technology, 2010, 18, 673-687.	5.2	59
132	A reference governor approach for dynamic reconfiguration of hybrid power systems. , 2010, , .		0
133	A systematic design approach for two planetary gear split hybrid vehicles. Vehicle System Dynamics, 2010, 48, 1395-1412.	3.7	90
134	A hierarchical optimal control strategy for power management of hybrid power systems in all electric ships applications. , 2010, , .		16
135	Development and evaluation of collision warning/collision avoidance algorithms using an errable driver model. Vehicle System Dynamics, 2010, 48, 525-535.	3.7	47
136	Vehicle stabilization in response to exogenous impulsive disturbances to the vehicle body. , 2009, , .		7
137	Estimation of road friction for enhanced active safety systems: Algebraic approach. , 2009, , .		18
138	Estimation of road friction for enhanced active safety systems: Dynamic approach. , 2009, , .		15
139	An experimental study and model validation of a membrane humidifier for PEM fuel cell humidification control. Journal of Power Sources, 2008, 180, 461-467.	7.8	100
140	A segmented model for studying water transport in a PEMFC. Journal of Power Sources, 2008, 185, 1179-1192.	7.8	37
141	Modeling and Control of a Power-Split Hybrid Vehicle. IEEE Transactions on Control Systems Technology, 2008, 16, 1242-1251.	5.2	508
142	Worst-case evaluation for integrated chassis control systems. Vehicle System Dynamics, 2008, 46, 329-340.	3.7	11
143	Collision model for vehicle motion prediction after light impacts. Vehicle System Dynamics, 2008, 46, 3-15.	3.7	23
144	Nonminimum-Phase Phenomenon of PEM Fuel Cell Membrane Humidifiers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	1.6	3

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145	Engine-in-the-loop study of the stochastic dynamic programming optimal control design for a hybrid electric HMMWV. International Journal of Heavy Vehicle Systems, 2008, 15, 309.	0.2	21
146	Control of Integrated Powertrain With Electronic Throttle and Automatic Transmission. IEEE Transactions on Control Systems Technology, 2007, 15, 474-482.	5.2	103
147	A Numerically Efficient Iterative Procedure for Hybrid Power System Optimization Using Sensitivity Functions. Proceedings of the American Control Conference, 2007, , .	0.0	3
148	Water distribution measurement for a PEMFC through neutron radiography. Journal of Power Sources, 2007, 170, 376-386.	7.8	86
149	Output Feedback H_{∞} Preview Control of an Electromechanical Valve Actuator. IEEE Transactions on Control Systems Technology, 2007, 15, 428-437.	5.2	39
150	Power management and design optimization of fuel cell/battery hybrid vehicles. Journal of Power Sources, 2007, 165, 819-832.	7.8	289
151	Combined control/plant optimization of fuel cell hybrid vehicles. , 2006, , .		2
152	Control optimization for a power-split hybrid vehicle. , 2006, , .		42
153	Adaptive model predictive control for co-ordination of compression and friction brakes in heavy duty vehicles. International Journal of Adaptive Control and Signal Processing, 2006, 20, 581-598.	4.1	6
154	Modelling and control strategy development for fuel cell electric vehicles. Annual Reviews in Control, 2005, 29, 159-168.	7.9	64
155	Range Policy of Adaptive Cruise Control Vehicles for Improved Flow Stability and String Stability. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 229-237.	8.0	260
156	A Thermodynamic Model of Membrane Humidifiers for PEM Fuel Cell Humidification Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 424-432.	1.6	62
157	Rollover Warning for Articulated Heavy Vehicles Based on a Time-to-Rollover Metric. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 406-414.	1.6	54
158	Control of natural gas catalytic partial oxidation for hydrogen generation in fuel cell applications. IEEE Transactions on Control Systems Technology, 2005, 13, 3-14.	5.2	60
159	Modeling and simulation of a PEM fuel cell humidification system. , 2004, , .		15
160	Linear estimator for road departure warning systems. , 2004, , .		9
161	Driving Pattern Recognition for Control of Hybrid Electric Trucks. Vehicle System Dynamics, 2004, 42, 41-58.	3.7	92
162	Modular adaptive robust control of SISO nonlinear systems in a semi-strict feedback form. International Journal of Robust and Nonlinear Control, 2004, 14, 581-601.	3.7	10

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163	Adaptive robust force control for vehicle active suspensions. International Journal of Adaptive Control and Signal Processing, 2004, 18, 83-102.	4.1	94
164	Optimal Power Management for a Hydraulic Hybrid Delivery Truck. Vehicle System Dynamics, 2004, 42, 23-40.	3.7	182
165	A study on lateral speed estimation methods. International Journal of Vehicle Autonomous Systems, 2004, 2, 126.	0.2	83
166	Identification and verification of a longitudinal human driving model for collision warning and avoidance systems. International Journal of Vehicle Autonomous Systems, 2004, 2, 3.	0.2	34
167	Model predictive control for starvation prevention in a hybrid fuel cell system. , 2004, , .		72
168	A stochastic control strategy for hybrid electric vehicles. , 2004, , .		112
169	Power management strategy for a parallel hybrid electric truck. IEEE Transactions on Control Systems Technology, 2003, 11, 839-849.	5.2	994
170	Methodology for assessing adaptive cruise control behavior. IEEE Transactions on Intelligent Transportation Systems, 2003, 4, 123-131.	8.0	49
171	Inverse-Dynamics Based State and Disturbance Observers for Linear Time-Invariant Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 375-381.	1.6	66
172	Differential-Braking-Based Rollover Prevention for Sport Utility Vehicles with Human-in-the-loop Evaluations. Vehicle System Dynamics, 2001, 36, 359-389.	3.7	265
173	Transient air-fuel ratio $H_{\text{sub}}/s_{\text{pl}} \text{ infin} //$ preview control of a drive-by-wire internal combustion engine. , 2001, , .		21
174	Energy management strategy for a parallel hybrid electric truck. , 2001, , .		59
175	Selected Papers from AVEC 2000. Vehicle System Dynamics, 2001, 36, 75-76.	3.7	0
176	Optimal Adaptive Cruise Control with Guaranteed String Stability. Vehicle System Dynamics, 1999, 32, 313-330.	3.7	251
177	A real-time rollover threat index for sports utility vehicles. , 1999, , .		28
178	Worst-Case Vehicle Evaluation Methodology ? Examples on Truck Rollover/Jackknifing and Active Yaw Control Systems. Vehicle System Dynamics, 1999, 32, 389-408.	3.7	21
179	Adaptive robust control for active suspensions. , 1999, , .		24
180	A Worst-Case Evaluation Method for Dynamic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 191-199.	1.6	36

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181	Worst-case manoeuvres for the roll-over and jackknife of articulated vehicles. , 1998, , .		3
182	A novel active suspension design technique-simulation and experimental results. , 1997, , .		11
183	Disturbance estimation based tracking control for a robotic manipulator. , 1997, , .		4
184	LQ and H_{∞} preview control for a durability simulator. , 1997, , .		6
185	Traction/Braking Force Distribution for Optimal Longitudinal Motion During Curve Following. Vehicle System Dynamics, 1996, 26, 301-320.	3.7	49
186	HIGHWAY-LEVEL VEHICLE CONTROL FOR AHS. I V H S Journal, 1995, 2, 293-310.	0.2	3
187	A Reusability Study of Vehicle Lateral Control System. Vehicle System Dynamics, 1994, 23, 259-278.	3.7	15
188	Preview Control for Vehicle Lateral Guidance in Highway Automation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 679-686.	1.6	156
189	A Theoretical and Experimental Study on Vehicle Lateral Control. , 1992, , .		39
190	An Experimental Study on Lateral Control of a Vehicle. , 1991, , .		16
191	Preview Control for Vehicle Lateral Guidance in Highway Automation. , 1991, , .		43
192	Vehicle Lateral Control for Highway Automation. , 1990, , .		165
193	Link-layer vehicle control system for ITS. , 0, , .		1
194	A unified framework for LQ and H_{∞} preview control algorithms. , 0, , .		4
195	Force tracking control for active suspensions-theory and experiments. , 0, , .		19
196	Simultaneous mass and time-varying grade estimation for heavy-duty vehicles. , 0, , .		37
197	Control of natural gas catalytic partial oxidation for hydrogen generation in fuel cell applications. , 0, , .		18
198	Range policy of adaptive cruise control for improved flow stability and string stability. , 0, , .		4

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199	Analysis of non-minimum phase behavior of PEM fuel cell membrane humidification systems. , 0, , .		10
200	Testing, modeling, and control of a fuel cell hybrid vehicle. , 0, , .		13
201	Hybrid Electric Vehicle Powertrain and Control Strategy Optimization to Maximize the Synergy with a Gasoline HCCI Engine. SAE International Journal of Engines, 0, 4, 1115-1126.	0.4	37
202	Optimal Engine Starts of an Input-Split Hybrid Electric Vehicle. SAE International Journal of Alternative Powertrains, 0, 4, 343-351.	0.8	12