

# Dongpu Cao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1403338/publications.pdf>

Version: 2024-02-01

230  
papers

12,136  
citations

23500

58  
h-index

30848

102  
g-index

235  
all docs

235  
docs citations

235  
times ranked

7774  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Spontaneous Driver Emotion Facial Expression (DEFE) Dataset for Intelligent Vehicles: Emotions Triggered by Video-Audio Clips in Driving Scenarios. IEEE Transactions on Affective Computing, 2023, 14, 747-760.	5.7	25
2	An Enabling Trajectory Planning Scheme for Lane Change Collision Avoidance on Highways. IEEE Transactions on Intelligent Vehicles, 2023, 8, 147-158.	9.4	19
3	Driver Anomaly Quantification for Intelligent Vehicles: A Contrastive Learning Approach With Representation Clustering. IEEE Transactions on Intelligent Vehicles, 2023, 8, 37-47.	9.4	36
4	3D-DFM: Anchor-Free Multimodal 3-D Object Detection With Dynamic Fusion Module for Autonomous Driving. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10812-10822.	7.2	5
5	Ethical Decision Making in Autonomous Vehicles: Challenges and Research Progress. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 6-17.	2.6	33
6	A Temporal-Spatial Deep Learning Approach for Driver Distraction Detection Based on EEG Signals. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2665-2677.	3.4	39
7	Visual-Attribute-Based Emotion Regulation of Angry Driving Behaviors. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 10-28.	2.6	20
8	Hybrid-Learning-Based Driver Steering Intention Prediction Using Neuromuscular Dynamics. IEEE Transactions on Industrial Electronics, 2022, 69, 1750-1761.	5.2	15
9	Deep Learning for Image and Point Cloud Fusion in Autonomous Driving: A Review. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 722-739.	4.7	178
10	Cooperative Critical Turning Point-Based Decision-Making and Planning for CAVH Intersection Management System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11062-11072.	4.7	10
11	A Probabilistic Model for Driving-Style-Recognition-Enabled Driver Steering Behaviors. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1838-1851.	5.9	28
12	A Two-Layer Potential-Field-Driven Model Predictive Shared Control Towards Driver-Automation Cooperation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4415-4431.	4.7	15
13	Autonomous Driving at Intersections: A Behavior-Oriented Critical-Turning-Point Approach for Decision Making. IEEE/ASME Transactions on Mechatronics, 2022, 27, 234-244.	3.7	25
14	Risk Assessment and Mitigation in Local Path Planning for Autonomous Vehicles With LSTM Based Predictive Model. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2738-2749.	3.4	28
15	Acclimatizing the Operational Design Domain for Autonomous Driving Systems. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 10-24.	2.6	19
16	SA-YOLOv3: An Efficient and Accurate Object Detector Using Self-Attention Mechanism for Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4099-4110.	4.7	26
17	CenterNet3D: An Anchor Free Object Detector for Point Cloud. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12953-12965.	4.7	15
18	RDC-SLAM: A Real-Time Distributed Cooperative SLAM System Based on 3D LiDAR. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14721-14730.	4.7	19

#	ARTICLE	IF	CITATIONS
19	CogEmoNet: A Cognitive-Feature-Augmented Driver Emotion Recognition Model for Smart Cockpit. IEEE Transactions on Computational Social Systems, 2022, 9, 667-678.	3.2	32
20	Driving Tasks Transfer Using Deep Reinforcement Learning for Decision-Making of Autonomous Vehicles in Unsignalized Intersection. IEEE Transactions on Vehicular Technology, 2022, 71, 41-52.	3.9	26
21	Toward Human-Centered Automated Driving: A Novel Spatiotemporal Vision Transformer-Enabled Head Tracker. IEEE Vehicular Technology Magazine, 2022, 17, 57-64.	2.8	31
22	Robust Min-Max Model Predictive Vehicle Platooning With Causal Disturbance Feedback. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15878-15897.	4.7	22
23	Distributed Data-Driven Predictive Control for Hybrid Connected Vehicle Platoons With Guaranteed Robustness and String Stability. IEEE Internet of Things Journal, 2022, 9, 16308-16321.	5.5	5
24	Vehicle Trajectory Prediction Method Coupled With Ego Vehicle Motion Trend Under Dual Attention Mechanism. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-16.	2.4	18
25	Instance-Level Knowledge Transfer for Data-Driven Driver Model Adaptation With Homogeneous Domains. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17015-17026.	4.7	8
26	CL3D: Camera-LiDAR 3D Object Detection With Point Feature Enhancement and Point-Guided Fusion. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18040-18050.	4.7	17
27	Decentralized Robust Control for Vehicle Platooning Subject to Uncertain Disturbances via Super-Twisting Second-Order Sliding-Mode Observer Technique. IEEE Transactions on Vehicular Technology, 2022, 71, 7186-7201.	3.9	9
28	Prediction-Uncertainty-Aware Decision-Making for Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2022, 7, 849-862.	9.4	65
29	Deep Learning for LiDAR Point Clouds in Autonomous Driving: A Review. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3412-3432.	7.2	219
30	A deep learning based image enhancement approach for autonomous driving at night. Knowledge-Based Systems, 2021, 213, 106617.	4.0	108
31	Risk assessment based collision avoidance decision-making for autonomous vehicles in multi-scenarios. Transportation Research Part C: Emerging Technologies, 2021, 122, 102820.	3.9	114
32	Distributed Deep Reinforcement Learning-Based Energy and Emission Management Strategy for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 9922-9934.	3.9	74
33	Applications of Game Theory in Vehicular Networks: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 2660-2710.	24.8	22
34	Trajectory Planning for Autonomous Mining Trucks Considering Terrain Constraints. IEEE Transactions on Intelligent Vehicles, 2021, 6, 772-786.	9.4	33
35	Human-Machine Collaboration for Automated Driving Using an Intelligent Two-Phase Haptic Interface. Advanced Intelligent Systems, 2021, 3, 2000229.	3.3	25
36	Deep Learning-Based Computer Vision for Surveillance in ITS: Evaluation of State-of-the-Art Methods. IEEE Transactions on Vehicular Technology, 2021, 70, 3027-3042.	3.9	20

#	ARTICLE	IF	CITATIONS
37	Distance-based formation control for multi-lane autonomous vehicle platoons. IET Control Theory and Applications, 2021, 15, 1506-1517.	1.2	9
38	Dimensionless Model-Based System Tracking Via Augmented Kalman Filter for Multiscale Unmanned Ground Vehicles. IEEE/ASME Transactions on Mechatronics, 2021, 26, 600-610.	3.7	5
39	Improving Ride Comfort and Fuel Economy of Connected Hybrid Electric Vehicles Based on Traffic Signals and Real Road Information. IEEE Transactions on Vehicular Technology, 2021, 70, 3101-3112.	3.9	51
40	Loop-Closure Detection With a Multiresolution Point Cloud Histogram Mode in Lidar Odometry and Mapping for Intelligent Vehicles. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1307-1317.	3.7	15
41	An Integrated Terrain Identification Framework for Mobile Robots: System Development, Analysis, and Verification. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1581-1590.	3.7	4
42	Deep Neural Network Based Vehicle and Pedestrian Detection for Autonomous Driving: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3234-3246.	4.7	90
43	Toward human-vehicle collaboration: Review and perspectives on human-centered collaborative automated driving. Transportation Research Part C: Emerging Technologies, 2021, 128, 103199.	3.9	60
44	Accident Prediction in Mesoscopic View: A CPSS-Based Social Transportation Approach. , 2021, , .		3
45	Extraction of descriptive driving patterns from driving data using unsupervised algorithms. Mechanical Systems and Signal Processing, 2021, 156, 107589.	4.4	47
46	Multi-scale driver behavior modeling based on deep spatial-temporal representation for intelligent vehicles. Transportation Research Part C: Emerging Technologies, 2021, 130, 103288.	3.9	21
47	Learning-Based Terrain Identification With Proprioceptive Sensors for Mobile Robots. IEEE Transactions on Industrial Electronics, 2021, 68, 8433-8443.	5.2	5
48	Driving conditions-driven energy management strategies for hybrid electric vehicles: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111521.	8.2	65
49	Kernel Point Non-local Networks for LiDAR Semantic Segmentation. , 2021, , .		0
50	Driver's Speech Emotion Recognition for Smart Cockpit Based on a Self-Attention Deep Learning Framework. , 2021, , .		1
51	Planning and Decision-making for Connected Autonomous Vehicles at Road Intersections: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	30
52	A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 397-408.	5.9	19
53	A Motion Planning and Tracking Framework for Autonomous Vehicles Based on Artificial Potential Field Elaborated Resistance Network Approach. IEEE Transactions on Industrial Electronics, 2020, 67, 1376-1386.	5.2	239
54	Path-following control by dynamic virtual terrain field for articulated steer vehicles. Vehicle System Dynamics, 2020, 58, 1528-1552.	2.2	19

#	ARTICLE	IF	CITATIONS
55	Toward the Ghosting Phenomenon in a Stereo-Based Map With a Collaborative RGB-D Repair. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2739-2749.	4.7	1
56	Surrounding Vehicle Detection Using an FPGA Panoramic Camera and Deep CNNs. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5110-5122.	4.7	34
57	Parallel End-to-End Autonomous Mining: An IoT-Oriented Approach. IEEE Internet of Things Journal, 2020, 7, 1011-1023.	5.5	34
58	Personalized Vehicle Trajectory Prediction Based on Joint Time-Series Modeling for Connected Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 1341-1352.	3.9	122
59	Learning Driving Models From Parallel End-to-End Driving Data Set. Proceedings of the IEEE, 2020, 108, 262-273.	16.4	33
60	Investigating the dynamic memory effect of human drivers via ON-LSTM. Science China Information Sciences, 2020, 63, 1.	2.7	2
61	Mixed-Integer Optimal Design and Energy Management of Hybrid Electric Vehicles With Automated Manual Transmissions. IEEE Transactions on Vehicular Technology, 2020, 69, 12705-12715.	3.9	18
62	Hybrid Path Planning Combining Potential Field with Sigmoid Curve for Autonomous Driving. Sensors, 2020, 20, 7197.	2.1	20
63	Deep Reinforcement Learning Enabled Decision-Making for Autonomous Driving at Intersections. Automotive Innovation, 2020, 3, 374-385.	3.1	49
64	Pattern Recognition and Characterization of Upper Limb Neuromuscular Dynamics during Driver-Vehicle Interactions. IScience, 2020, 23, 101541.	1.9	9
65	An ensemble deep learning approach for driver lane change intention inference. Transportation Research Part C: Emerging Technologies, 2020, 115, 102615.	3.9	115
66	Special Issue on Internet of Things for Connected Automated Driving. IEEE Internet of Things Journal, 2020, 7, 3678-3680.	5.5	2
67	Proximity based automatic data annotation for autonomous driving. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 395-404.	8.5	43
68	Study on the driving style adaptive vehicle longitudinal control strategy. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1107-1115.	8.5	32
69	Energy oriented driving behavior analysis and personalized prediction of vehicle states with joint time series modeling. Applied Energy, 2020, 261, 114471.	5.1	55
70	Cyber-Physical Vehicle Systems: Methodology and Applications. Synthesis Lectures on Advances in Automotive Technology, 2020, 4, 1-85.	0.2	1
71	Road Perception in Driver Intention Inference System. , 2020, , 53-75.		1
72	Longitudinal Driver Intention Inference. , 2020, , 157-191.		3

#	ARTICLE	IF	CITATIONS
73	Driver Lane-Change Intention Inference. , 2020, , 193-233.		0
74	Heuristics-oriented overtaking decision making for autonomous vehicles using reinforcement learning. IET Electrical Systems in Transportation, 2020, 10, 417-424.	1.5	17
75	Multi-EmoNet: A Novel Multi-Task Neural Network for Driver Emotion Recognition. IFAC-PapersOnLine, 2020, 53, 650-655.	0.5	8
76	A Two-Stage Learning Framework for Driver Lane Change Intention Inference. IFAC-PapersOnLine, 2020, 53, 638-643.	0.5	7
77	Autonomous Driving at Intersections: A Critical-Turning-Point Approach for Left Turns. , 2020, , .		20
78	Multi-Scale Driver Behaviors Reasoning System for Intelligent Vehicles Based on a Joint Deep Learning Framework. , 2020, , .		4
79	Continuous Driver Steering Intention Prediction Considering Neuromuscular Dynamics and Driving Postures. , 2020, , .		1
80	Parallel planning: a new motion planning framework for autonomous driving. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 236-246.	8.5	92
81	Robust and Fast Registration of Infrared and Visible Images for Electro-Optical Pod. IEEE Transactions on Industrial Electronics, 2019, 66, 1335-1344.	5.2	24
82	Driving-Style-Based Codesign Optimization of an Automated Electric Vehicle: A Cyber-Physical System Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 2965-2975.	5.2	195
83	Parallel Vehicular Networks: A CPSS-Based Approach via Multimodal Big Data in IoV. IEEE Internet of Things Journal, 2019, 6, 1079-1089.	5.5	22
84	Model predictive path following control for autonomous cars considering a measurable disturbance: Implementation, testing, and verification. Mechanical Systems and Signal Processing, 2019, 118, 41-60.	4.4	136
85	A Review of Estimation for Vehicle Tire-Road Interactions Toward Automated Driving. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 14-30.	5.9	58
86	Real-time Display Method for Mining Vehicle Simulation based on Virtual reality. , 2019, , .		2
87	Real-Time Vehicle Detection from Short-range Aerial Image with Compressed MobileNet. , 2019, , .		8
88	Virtual-to-Real Knowledge Transfer for Driving Behavior Recognition: Framework and a Case Study. IEEE Transactions on Vehicular Technology, 2019, 68, 6391-6402.	3.9	31
89	Semantic Segmentation via Structured Refined Prediction and Dual Global Priors. , 2019, , .		1
90	End-to-End Autonomous Driving: An Angle Branched Network Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 11599-11610.	3.9	26

#	ARTICLE	IF	CITATIONS
91	A Personalized Behavior Learning System for Human-Like Longitudinal Speed Control of Autonomous Vehicles. <i>Sensors</i> , 2019, 19, 3672.	2.1	28
92	Crash Mitigation in Motion Planning for Autonomous Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 3313-3323.	4.7	150
93	Energy management strategies of connected HEVs and PHEVs: Recent progress and outlook. <i>Progress in Energy and Combustion Science</i> , 2019, 73, 235-256.	15.8	298
94	Neural Network Based Uncertainty Prediction for Autonomous Vehicle Application. <i>Frontiers in Neurorobotics</i> , 2019, 13, 12.	1.6	10
95	Parallel testing of vehicle intelligence via virtual-real interaction. <i>Science Robotics</i> , 2019, 4, .	9.9	150
96	Driver Lane Change Intention Inference for Intelligent Vehicles: Framework, Survey, and Challenges. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 4377-4390.	3.9	166
97	Cyber-Physical Predictive Energy Management for Through-the-Road Hybrid Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 3246-3256.	3.9	27
98	Driver Activity Recognition for Intelligent Vehicles: A Deep Learning Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 5379-5390.	3.9	238
99	Manoeuvre prediction and planning for automated and connected vehicles based on interaction and gaming awareness under uncertainty. <i>IET Intelligent Transport Systems</i> , 2019, 13, 933-941.	1.7	7
100	Dynamic States Prediction in Autonomous Vehicles: Comparison of Three Different Methods. , 2019, , .		3
101	Cross Validation for CNN based Affordance Learning and Control for Autonomous Driving. , 2019, , .		4
102	Path Planning for On-road Autonomous Driving with Concentrated Iterative Search. , 2019, , .		2
103	Dynamic integration and online evaluation of vision-based lane detection algorithms. <i>IET Intelligent Transport Systems</i> , 2019, 13, 55-62.	1.7	26
104	Parallel Motion Planning: Learning a Deep Planning Model against Emergencies. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 36-41.	2.6	10
105	From Software-Defined Vehicles to Self-Driving Vehicles: A Report on CPSS-Based Parallel Driving. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 6-14.	2.6	20
106	Fuel economy optimization of power split hybrid vehicles: A rapid dynamic programming approach. <i>Energy</i> , 2019, 166, 929-938.	4.5	92
107	Collaborative Three-Dimensional Completion of Color and Depth in a Specified Area With Superpixels. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6260-6269.	5.2	3
108	Nonlinear Model Predictive Lateral Stability Control of Active Chassis for Intelligent Vehicles and Its FPGA Implementation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2-13.	5.9	91



#	ARTICLE	IF	CITATIONS
109	Tyre road friction estimation based on braking force distribution. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2030-2047.	1.1	14
110	How to Define the Passenger's Hazard Perception Level by Combining Subjective and Objective Measures?. Lecture Notes in Computer Science, 2019, , 40-53.	1.0	0
111	Identification and Analysis of Driver Postures for In-Vehicle Driving Activities and Secondary Tasks Recognition. IEEE Transactions on Computational Social Systems, 2018, 5, 95-108.	3.2	109
112	Analysis of autopilot disengagements occurring during autonomous vehicle testing. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 58-68.	8.5	99
113	Vehicle dynamic state estimation: state of the art schemes and perspectives. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 418-431.	8.5	116
114	Artificial intelligence test: a case study of intelligent vehicles. Artificial Intelligence Review, 2018, 50, 441-465.	9.7	102
115	Simultaneous Observation of Hybrid States for Cyber-Physical Systems: A Case Study of Electric Vehicle Powertrain. IEEE Transactions on Cybernetics, 2018, 48, 2357-2367.	6.2	93
116	Retrieving Common Discretionary Lane Changing Characteristics From Trajectories. IEEE Transactions on Vehicular Technology, 2018, 67, 2014-2024.	3.9	19
117	Configuration optimization for improving fuel efficiency of power split hybrid powertrains with a single planetary gear. Applied Energy, 2018, 214, 103-116.	5.1	68
118	Brake-Blending Control of EVs. , 2018, , 275-308.		5
119	A Fast and Efficient Double-Tree RRT*-Like Sampling-Based Planner Applying on Mobile Robotic Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2568-2578.	3.7	104
120	Advances in Vision-Based Lane Detection: Algorithms, Integration, Assessment, and Perspectives on ACP-Based Parallel Vision. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 645-661.	8.5	126
121	Learning Driver-Specific Behavior for Overtaking: A Combined Learning Framework. IEEE Transactions on Vehicular Technology, 2018, 67, 6788-6802.	3.9	45
122	Characterization of Driver Neuromuscular Dynamics for Human-Automation Collaboration Design of Automated Vehicles. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2558-2567.	3.7	60
123	Levenberg-Marquardt Backpropagation Training of Multilayer Neural Networks for State Estimation of a Safety-Critical Cyber-Physical System. IEEE Transactions on Industrial Informatics, 2018, 14, 3436-3446.	7.2	251
124	Condition Monitoring in Advanced Battery Management Systems: Moving Horizon Estimation Using a Reduced Electrochemical Model. IEEE/ASME Transactions on Mechatronics, 2018, 23, 167-178.	3.7	154
125	Dual-envelop-oriented moving horizon path tracking control for fully automated vehicles. Mechatronics, 2018, 50, 422-433.	2.0	81
126	Robust Longitudinal Control of Multi-Vehicle Systems-A Distributed H-Infinity Method. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2779-2788.	4.7	99



#	ARTICLE	IF	CITATIONS
127	Driver workload estimation using a novel hybrid method of error reduction ratio causality and support vector machine. Measurement: Journal of the International Measurement Confederation, 2018, 114, 390-397.	2.5	41
128	Driving Style Recognition for Intelligent Vehicle Control and Advanced Driver Assistance: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 666-676.	4.7	390
129	Dynamic path planning for autonomous driving on various roads with avoidance of static and moving obstacles. Mechanical Systems and Signal Processing, 2018, 100, 482-500.	4.4	228
130	Estimation of Driver's Attention Level Based on Correlation Analysis of Movements. , 2018, , .		0
131	A Novel Control Framework of Haptic Take-Over System for Automated Vehicles. , 2018, , .		16
132	Driving-Style-Oriented Multi-Objective Optimal Control of an Electric Vehicle. IFAC-PapersOnLine, 2018, 51, 274-278.	0.5	2
133	Fast Learning-based Control for Energy Management of Hybrid Electric Vehicles. IFAC-PapersOnLine, 2018, 51, 595-600.	0.5	8
134	End-to-End Driving Activities and Secondary Tasks Recognition Using Deep Convolutional Neural Network and Transfer Learning. , 2018, , .		23
135	PlaneCell: Representing Structural Space with Plane Elements. , 2018, , .		1
136	Modeling and Predicting Vehicle Motion Activities by Using And-Or Graph. , 2018, , .		3
137	Optimization of Pure Pursuit Controller based on PID Controller and Low-pass Filter. , 2018, , .		19
138	CPSS-based Signal Forwarding Method at Relays for Full-duplex Cooperative Vehicular Networks. , 2018, , .		3
139	Multi-objective Optimal Sizing and Real-time Control of Hybrid Energy Storage Systems for Electric Vehicles. , 2018, , .		8
140	A CPSS-Based Network Resource Optimization Mechanism for Wireless Heterogeneous Networks. IEEE Transactions on Computational Social Systems, 2018, 5, 985-994.	3.2	7
141	Reinforcement Learning-Based Predictive Control for Autonomous Electrified Vehicles. , 2018, , .		1
142	Visual Place Recognition in Long-term and Large-scale Environment based on CNN Feature. , 2018, , .		9
143	Siamese-ResNet: Implementing Loop Closure Detection based on Siamese Network. , 2018, , .		9
144	From Intelligent Vehicles to Smart Societies: A Parallel Driving Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 594-604.	3.2	20

#	ARTICLE	IF	CITATIONS
145	Hybrid-Learning-Based Classification and Quantitative Inference of Driver Braking Intensity of an Electrified Vehicle. IEEE Transactions on Vehicular Technology, 2018, , 1-1.	3.9	58
146	Parallel reinforcement learning: a framework and case study. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 827-835.	8.5	55
147	A situation-aware collision avoidance strategy for car-following. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 1012-1016.	8.5	46
148	Hazard-evaluation-oriented moving horizon parallel steering control for driver-automation collaboration during automated driving. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 1062-1073.	8.5	40
149	Development of a new integrated local trajectory planning and tracking control framework for autonomous ground vehicles. Mechanical Systems and Signal Processing, 2017, 87, 118-137.	4.4	222
150	Energy Management in Plug-in Hybrid Electric Vehicles: Recent Progress and a Connected Vehicles Perspective. IEEE Transactions on Vehicular Technology, 2017, 66, 4534-4549.	3.9	544
151	A novel integrated approach for path following and directional stability control of road vehicles after a tire blow-out. Mechanical Systems and Signal Processing, 2017, 93, 431-444.	4.4	28
152	High-Precision Hydraulic Pressure Control Based on Linear Pressure-Drop Modulation in Valve Critical Equilibrium State. IEEE Transactions on Industrial Electronics, 2017, 64, 7984-7993.	5.2	113
153	Wheel slip control with torque blending using linear and nonlinear model predictive control. Vehicle System Dynamics, 2017, 55, 1665-1685.	2.2	57
154	Reinforcement Learning Optimized Look-Ahead Energy Management of a Parallel Hybrid Electric Vehicle. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1497-1507.	3.7	300
155	A novel energy management for hybrid off-road vehicles without future driving cycles as a priori. Energy, 2017, 133, 929-940.	4.5	41
156	Parallel vehicles based on the ACP theory: Safe trips via self-driving. , 2017, , .		6
157	Feature uncertainty estimation in sensor fusion applied to autonomous vehicle location. , 2017, , .		3
158	Optimal $\mu$ -Estimation-Based Regenerative Braking Strategy for an AWD HEV. IEEE Transactions on Transportation Electrification, 2017, 3, 249-258.	5.3	45
159	Modified K-best receiver for multi-antenna vehicular networks. , 2017, , .		0
160	Memetic algorithm with adaptive local search for Capacitated Arc Routing Problem. , 2017, , .		2
161	Multi-point turn decision making framework for human-like automated driving. , 2017, , .		9
162	Parallel driving in CPSS: a unified approach for transport automation and vehicle intelligence. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 577-587.	8.5	187

#	ARTICLE	IF	CITATIONS
163	Characterisation of driver neuromuscular dynamics for haptic take-over system design for automated vehicles. , 2017, , .		2
164	An Orientation Sensor-Based Head Tracking System for Driver Behaviour Monitoring. Sensors, 2017, 17, 2692.	2.1	24
165	Relaying algorithm based on soft estimated information for cooperative V2X networks. , 2017, , .		1
166	Low-complexity detection for multi-antenna differential unitary space-time modulation systems. , 2017, , .		3
167	System Modeling, Coupling Analysis, and Experimental Validation of a Proportional Pressure Valve With Pulsewidth Modulation Control. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1742-1753.	3.7	48
168	Economical launching and accelerating control strategy for a single-shaft parallel hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 76-77, 649-664.	4.4	39
169	System Modeling and Pressure Control of a Clutch Actuator for Heavy-Duty Automatic Transmission Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 4865-4874.	3.9	70
170	Nonlinear Coordinated Motion Control of Road Vehicles After a Tire Blowout. IEEE Transactions on Control Systems Technology, 2016, 24, 956-970.	3.2	47
171	Multiple-Model Switching Control of Vehicle Longitudinal Dynamics for Platoon-Level Automation. IEEE Transactions on Vehicular Technology, 2016, 65, 4480-4492.	3.9	93
172	Automatic Clutch Control Based on Estimation of Resistance Torque for AMT. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2682-2693.	3.7	60
173	Real-Time Trajectory Planning for Autonomous Urban Driving: Framework, Algorithms, and Verifications. IEEE/ASME Transactions on Mechatronics, 2016, 21, 740-753.	3.7	226
174	Multimode Energy Management for Plug-In Hybrid Electric Buses Based on Driving Cycles Prediction. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2811-2821.	4.7	58
175	Integrated Optimization of Battery Sizing, Charging, and Power Management in Plug-In Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2016, 24, 1036-1043.	3.2	193
176	Stability and Scalability of Homogeneous Vehicular Platoon: Study on the Influence of Information Flow Topologies. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 14-26.	4.7	510
177	Four wheel torque blending for slip control in a hybrid electric vehicle with a single electric machine. , 2015, , .		5
178	Connected vehicles - Advancements in vehicular technologies and informatics. IEEE Transactions on Industrial Electronics, 2015, 62, 7824-7826.	5.2	20
179	Multi-objective optimal sizing and control of fuel cell systems for hybrid vehicle applications. , 2015, , .		7
180	Advanced Power-Source Integration in Hybrid Electric Vehicles: Multicriteria Optimization Approach. IEEE Transactions on Industrial Electronics, 2015, 62, 7847-7858.	5.2	152

#	ARTICLE	IF	CITATIONS
181	Tire-road-friction-estimation-based braking force distribution for AWD electrified vehicles with a single electric machine. , 2015, , .		5
182	Model-Based Estimation for Vehicle Dynamics States at the Limit Handling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	25
183	ConstrainedH $\infty$ control for road vehicles after a tire blow-out. Mechatronics, 2015, 30, 371-382.	2.0	25
184	A novel vehicle dynamics stability control algorithm based on the hierarchical strategy with constrain of nonlinear tyre forces. Vehicle System Dynamics, 2015, 53, 1093-1116.	2.2	100
185	Battery Health Prognosis for Electric Vehicles Using Sample Entropy and Sparse Bayesian Predictive Modeling. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	212
186	Robust control of integrated motor-transmission powertrain system over controller area network for automotive applications. Mechanical Systems and Signal Processing, 2015, 58-59, 15-28.	4.4	75
187	An investigation of lithium-ion battery thermal management using paraffin/porous-graphite-matrix composite. Journal of Power Sources, 2015, 278, 50-68.	4.0	160
188	Switching-Based Stochastic Model Predictive Control Approach for Modeling Driver Steering Skill. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 365-375.	4.7	71
189	A theoretical and computational study of lithium-ion battery thermal management for electric vehicles using heat pipes. Journal of Power Sources, 2014, 257, 344-355.	4.0	216
190	Kineto-dynamic directional response analysis of an articulated frame steer vehicle. International Journal of Vehicle Design, 2014, 65, 1.	0.1	25
191	A three-dimensional model of an articulated frame-steer vehicle for coupled ride and handling dynamic analyses. International Journal of Vehicle Performance, 2014, 1, 264.	0.2	6
192	Modeling Driver Steering Control Based on Stochastic Model Predictive Control. , 2013, , .		12
193	Design of a reduced-order non-linear observer for vehicle velocities estimation. IET Control Theory and Applications, 2013, 7, 2056-2068.	1.2	38
194	Defining &#x0022;Critical Speed&#x0022; in Driver-Vehicle Systems. , 2013, , .		3
195	Effect of Soil Deformability on Off-Road Vehicle Ride Dynamics. SAE International Journal of Commercial Vehicles, 2013, 6, 362-371.	0.4	7
196	A new pneumatic suspension system with independent stiffness and ride height tuning capabilities. Vehicle System Dynamics, 2012, 50, 1735-1746.	2.2	35
197	Pneumatic suspension damping characterisation with equivalent damping ratio. International Journal of Heavy Vehicle Systems, 2012, 19, 314.	0.1	8
198	The impact of hybrid and electric powertrains on vehicle dynamics, control systems and energy regeneration. Vehicle System Dynamics, 2012, 50, 95-109.	2.2	102

#	ARTICLE	IF	CITATIONS
199	Modeling and validation of off-road vehicle ride dynamics. Mechanical Systems and Signal Processing, 2012, 28, 679-695.	4.4	94
200	Ride dynamic evaluations and design optimisation of a torsio-elastic off-road vehicle suspension. Vehicle System Dynamics, 2011, 49, 1455-1476.	2.2	28
201	Modelling generalisation and power dissipation of flexible-wheel suspension concept for planetary surface vehicles. Vehicle System Dynamics, 2011, 49, 1299-1320.	2.2	1
202	Editorsâ€™ perspectives: road vehicle suspension design, dynamics, and control. Vehicle System Dynamics, 2011, 49, 3-28.	2.2	297
203	Urban bus driver ride and road-friendliness. Part II: subjective suspension damping tuning and objective optimisation. International Journal of Vehicle Design, 2011, 57, 333.	0.1	7
204	Semi-Active Suspension Design for Enhancing Vehicle Ride, Road-Friendliness and Braking Performance. , 2011, , .		1
205	Urban bus driver ride and road-friendliness. Part I: Model development and role of operating parameters. International Journal of Vehicle Design, 2011, 57, 305.	0.1	5
206	Influence of Oil Compressibility of Fluidic Suspensions on Vehicle Roll Stability and Ride Dynamics. , 2010, , .		0
207	Roll- and pitch-plane-coupled hydro-pneumatic suspension. Part 2: dynamic response analyses. Vehicle System Dynamics, 2010, 48, 507-528.	2.2	54
208	Roll- and pitch-plane coupled hydro-pneumatic suspension. Vehicle System Dynamics, 2010, 48, 361-386.	2.2	74
209	Wheelbase Filtering and Characterization of Road Profiles for Vehicle Dynamics. , 2010, , .		6
210	Novel Transmissibility Shaping Control for Regenerative Vehicle Suspension Systems. , 2010, , .		2
211	Design of Semiactive Vehicle Suspension Controls in Frequency Domain. , 2009, , .		1
212	Modeling and Analysis of Flexible-Wheel Suspension Concept. , 2009, , .		0
213	Heavy vehicle pitch dynamics and suspension tuning. Part I: unconnected suspension. Vehicle System Dynamics, 2008, 46, 931-953.	2.2	30
214	Pitch Attitude Control and Braking Performance Analysis of Heavy Vehicle with Interconnected Suspensions. , 2007, , .		12
215	A Generalized Model of a Class of Interconnected Hydro-Pneumatic Suspensions and Analysis of Pitch Properties. , 2006, , 137.		14
216	Comparison of Roll Properties of Hydraulically and Pneumatically Interconnected Suspensions for Heavy Vehicles. , 2005, , .		19

#	ARTICLE	IF	CITATIONS
217	Roll Plane Analysis of Interconnected Hydro-Pneumatic Suspension Struts. , 2005, , 133.		9
218	Optimal Damping Design of Heavy Vehicle with Interconnected Hydro-Pneumatic Suspension. , 0, , .		2
219	Handling and Braking Analyses of a Heavy Vehicle with a Cross-Axle Fluidically-Coupled Suspension. SAE International Journal of Commercial Vehicles, 0, 1, 406-415.	0.4	1
220	Property Analysis of an X-Coupled Suspension for Sport Utility Vehicles. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 853-862.	0.4	10
221	Dynamic Analyses of Different Concept Car Suspension System Layouts. , 0, , .		0
222	Experimental and Analytical Evaluations of a Torsio-Elastic Suspension for Off-Road Vehicles. SAE International Journal of Materials and Manufacturing, 0, 3, 326-338.	0.3	0
223	Experimental and Analytical Property Characterization of a Self-Damped Pneumatic Suspension System. , 0, , .		0
224	Effect of Terrain Roughness on the Roll and Yaw Directional Stability of an Articulated Frame Steer Vehicle. SAE International Journal of Commercial Vehicles, 0, 6, 325-339.	0.4	5
225	Power Consumption Analysis of a Flexible-Wheel Suspension Planetary Rover Operating upon Deformable Terrain. SAE International Journal of Commercial Vehicles, 0, 6, 372-380.	0.4	0
226	Performance Analyses of Driver-Vehicle-Steer-By-Wire Systems Considering Driver Neuromuscular Dynamics. , 0, , .		2
227	Recognizing Driver Braking Intention with Vehicle Data Using Unsupervised Learning Methods. , 0, , .		7
228	Virtual Test Design and Automated Analysis of Lane Keeping Assistance Systems in Accordance with Euro NCAP Test Protocols. , 0, , .		2
229	Cyber-Physical System Based Optimization Framework for Intelligent Powertrain Control. SAE International Journal of Commercial Vehicles, 0, 10, 254-264.	0.4	20
230	Design Optimization of the Transmission System for Electric Vehicles Considering the Dynamic Efficiency of the Regenerative Brake. , 0, , .		3