

# Yingfeng Cai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121  
papers

1,516  
citations

21  
h-index

32  
g-index

135  
ext. papers

2,181  
ext. citations

3.8  
avg. IF

5.57  
L-index

#	Paper	IF	Citations
121	Compensated Deadbeat Predictive Current Control Considering Disturbance and VSI Nonlinearity for In-Wheel PMSMs. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2022</b> , 1-12	5.5	8
120	Lithium-ion battery capacity estimation based on battery surface temperature change under constant-current charge scenario. <i>Energy</i> , <b>2022</b> , 241, 122879	7.9	0
119	Piecewise affine modeling and hybrid optimal control of intelligent vehicle longitudinal dynamics for velocity regulation. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 162, 108089	7.8	1
118	A Novel Energy Management Strategy for Plug-in Hybrid Electric Buses Based on Model Predictive Control and Estimation of Distribution Algorithm. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2022</b> , 1-12	5.5	5
117	Voxel-RCNN-Complex: An Effective 3D Point Cloud Object Detector for Complex Traffic Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	6
116	Personalized motion planning and tracking control for autonomous vehicles obstacle avoidance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
115	V2I-CARLA: A Novel Dataset and a Method for Vehicle Reidentification-Based V2I Environment. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-9	5.2	0
114	Energy Saving Performance of Agricultural Tractor Equipped with Mechanic-Electronic-Hydraulic Powertrain System. <i>Agriculture (Switzerland)</i> , <b>2022</b> , 12, 436	3	2
113	Integrated-Hybrid Framework for Connected and Autonomous Vehicles Microscopic Traffic Flow Modelling. <i>Journal of Advanced Transportation</i> , <b>2022</b> , 2022, 1-16	1.9	0
112	Map-Based Localization for Intelligent Vehicles from Bi-Sensor Data Fusion. <i>Expert Systems With Applications</i> , <b>2022</b> , 117586	7.8	0
111	SFNet-N: An Improved SFNet Algorithm for Semantic Segmentation of Low-Light Autonomous Driving Road Scenes. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-13	6.1	10
110	Multi-Target Pan-Class Intrinsic Relevance Driven Model for Improving Semantic Segmentation in Autonomous Driving. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 9069-9084	8.7	2
109	. <i>IEEE Access</i> , <b>2021</b> , 9, 153811-153823	3.5	2
108	A Decision Control Method for Autonomous Driving Based on Multi-Task Reinforcement Learning. <i>IEEE Access</i> , <b>2021</b> , 9, 154553-154562	3.5	
107	State-of-health Estimation for Lithium-ion Batteries Based on Decoupled Dynamic Characteristic of Constant-voltage Charging Current. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	1
106	Pontryagin's minimum principle based fuzzy adaptive energy management for hybrid electric vehicle using real-time traffic information. <i>Applied Energy</i> , <b>2021</b> , 286, 116467	10.7	7
105	Trajectory prediction of cyclist based on dynamic Bayesian network and long short-term memory model at unsignalized intersections. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	16

104	Data-Based Identification of the Tire Cornering Properties Via Piecewise Affine Approximation. <i>International Journal of Automotive Technology</i> , <b>2021</b> , 22, 631-641	1.6	0
103	Research on Intelligent Vehicle Path Tracking with Subsystems Based on Multimodel Intelligent Hierarchical Control Theory. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-15	1.1	0
102	Torque Modeling of a Segmented-Rotor SRM Using Maximum-Correntropy-Criterion-Based LSSVR for Torque Calculation of EVs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2674-2684	5.6	19
101	Visual Map-Based Localization for Intelligent Vehicles From Multi-View Site Matching. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 1068-1079	6.1	5
100	Comprehensive Sensitivity and Cross-Factor Variance Analysis-Based Multi-Objective Design Optimization of a 3-DOF Hybrid Magnetic Bearing. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	17
99	Soft-Weighted-Average Ensemble Vehicle Detection Method Based on Single-Stage and Two-Stage Deep Learning Models. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2021</b> , 6, 100-109	5	13
98	Trajectory tracking control of steer-by-wire autonomous ground vehicle considering the complete failure of vehicle steering motor. <i>Simulation Modelling Practice and Theory</i> , <b>2021</b> , 109, 102235	3.9	7
97	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-16	6.1	21
96	Crossing or Not? Context-Based Recognition of Pedestrian Crossing Intention in the Urban Environment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-12	6.1	4
95	Robust Target Recognition and Tracking of Self-Driving Cars With Radar and Camera Information Fusion Under Severe Weather Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-14	6.1	30
94	Environment-Attention Network for Vehicle Trajectory Prediction. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	5
93	DLnet With Training Task Conversion Stream for Precise Semantic Segmentation in Actual Traffic Scene. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	13
92	Torsional oscillation-considered mode transition coordinated control for a power-split PHEV based on action dependent heuristic dynamic programming. <i>ISA Transactions</i> , <b>2021</b> ,	5.5	1
91	Three-Vector-Based Model Predictive Torque Control for a Permanent Magnet Synchronous Motor of EVs. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 1454-1465	7.6	19
90	Creating navigation map in semi-open scenarios for intelligent vehicle localization using multi-sensor fusion. <i>Expert Systems With Applications</i> , <b>2021</b> , 184, 115543	7.8	4
89	YOLOv4-5D: An Effective and Efficient Object Detector for Autonomous Driving. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	45
88	An Automatic Vehicle Avoidance Control Model for Dangerous Lane-Changing Behavior. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-11	6.1	1
87	Displacement sensorless control for bearingless induction motor drives based on the MRAS method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 62, 787-805	0.4	5

86	Grey Wolf Optimization Algorithm Based State Feedback Control for a Bearingless Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 13631-13640	7.2	64
85	Design optimization and analysis of a segmented-rotor switched reluctance machine for BSG application in HEVs. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 63, 529-550	0.4	2
84	Review on multi-power sources dynamic coordinated control of hybrid electric vehicle during driving mode transition process. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 6128-6148	4.5	7
83	Robust Design Optimization of a Five-Phase PM Hub Motor for Fault-Tolerant Operation Based on Taguchi Method. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 2036-2044	5.4	56
82	Expected yaw rate-based trajectory tracking control with vision delay for intelligent vehicle. <i>Science Progress</i> , <b>2020</b> , 103, 36850420934274	1.1	
81	A Shift Vector Guided Multiobjective Evolutionary Algorithm Based on Decomposition for Dynamic Optimization. <i>IEEE Access</i> , <b>2020</b> , 8, 38391-38403	3.5	2
80	A Novel Saliency Detection Algorithm Based On Adversarial Learning Model. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> ,	8.7	10
79	Combining sustainable stochastic resonance with high-energy orbit oscillation to broaden rotational bandwidth of energy harvesting from tire. <i>AIP Advances</i> , <b>2020</b> , 10, 015011	1.5	2
78	Research on Compound Coordinated Control for a Power-Split Hybrid Electric Vehicle Based on Compensation of Non-Ideal Communication Network. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 14818-14833	6.8	3
77	Design optimisation of an outer-rotor permanent magnet synchronous hub motor for a low-speed campus patrol EV. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 2111-2118	1.8	8
76	A single-shot pose estimation approach for a 2D laser rangefinder. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 025105	2	3
75	An ANFIS-Based ECMS for Energy Optimization of Parallel Hybrid Electric Bus. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 1473-1483	6.8	37
74	Robust crowd counting based on refined density map. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 2837-2853	2.5	2
73	Torque distribution method based on vibration instability of PS-HEV transmission system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 3491-3503	1.4	5
72	Driving-Cycle-Oriented Design Optimization of a Permanent Magnet Hub Motor Drive System for a Four-Wheel-Drive Electric Vehicle. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 1115-1125	7.6	38
71	Identification of a piecewise affine model for the tire cornering characteristics based on experimental data. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 857-874	5	2
70	Development of a digital control system for a belt-driven starter generator segmented switched reluctance motor for hybrid electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2020</b> , 234, 975-984	1	3
69	Mode Transition Control of a Power-Split Hybrid Electric Vehicle Based on Improved Extended State Observer. <i>IEEE Access</i> , <b>2020</b> , 8, 207260-207274	3.5	

68	Stability Research of Distributed Drive Electric Vehicle by Adaptive Direct Yaw Moment Control. <i>IEEE Access</i> , <b>2019</b> , 7, 106225-106237	3.5	16
67	Vehicle license plate recognition method based on deep convolution network in complex road scene. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2019</b> , 233, 2284-2292	1.4	0
66	Passive fault-tolerant path following control of autonomous distributed drive electric vehicle considering steering system fault. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 123, 298-315	7.8	32
65	A forward collision avoidance algorithm based on driver braking behavior. <i>Accident Analysis and Prevention</i> , <b>2019</b> , 129, 30-43	6.1	26
64	Hybrid modeling and predictive control of intelligent vehicle longitudinal velocity considering nonlinear tire dynamics. <i>Nonlinear Dynamics</i> , <b>2019</b> , 97, 1051-1066	5	13
63	Sideslip Angle Fusion Estimation Method of an Autonomous Electric Vehicle Based on Robust Cubature Kalman Filter with Redundant Measurement Information. <i>World Electric Vehicle Journal</i> , <b>2019</b> , 10, 34	2.5	1
62	Lyophobic slippery surfaces on smooth/hierarchical structured substrates and investigations of their dynamic liquid repellency. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 15705-15711	3.6	9
61	Passive actuator-fault-tolerant path following control of autonomous ground electric vehicle with in-wheel motors. <i>Advances in Engineering Software</i> , <b>2019</b> , 134, 22-30	3.6	19
60	Real-Time Vehicle Detection Algorithm Based on Vision and Lidar Point Cloud Fusion. <i>Journal of Sensors</i> , <b>2019</b> , 2019, 1-9	2	21
59	A path and velocity planning method for lane changing collision avoidance of intelligent vehicle based on cubic 3-D Bezier curve. <i>Advances in Engineering Software</i> , <b>2019</b> , 132, 65-73	3.6	31
58	. <i>IEEE Intelligent Transportation Systems Magazine</i> , <b>2019</b> , 11, 82-95	2.6	52
57	A study of the novel vision guided IV trajectory tracking control system based on expected yaw velocity. <i>Advances in Engineering Software</i> , <b>2019</b> , 131, 196-204	3.6	3
56	Implementation and Development of a Trajectory Tracking Control System for Intelligent Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2019</b> , 94, 251-264	2.9	24
55	Running States Estimation of Autonomous Four-Wheel Independent Drive Electric Vehicle by Virtual Longitudinal Force Sensors. <i>Mathematical Problems in Engineering</i> , <b>2019</b> , 2019, 1-17	1.1	1
54	A novel resistor-inductor network-based equivalent circuit model of lithium-ion batteries under constant-voltage charging condition. <i>Applied Energy</i> , <b>2019</b> , 254, 113726	10.7	15
53	An adaptive ECMS with driving style recognition for energy optimization of parallel hybrid electric buses. <i>Energy</i> , <b>2019</b> , 189, 116151	7.9	43
52	Design of Vehicle Running States-Fused Estimation Strategy Using Kalman Filters and Tire Force Compensation Method. <i>IEEE Access</i> , <b>2019</b> , 7, 87273-87287	3.5	9
51	3D Vehicle Detection Based on LiDAR and Camera Fusion. <i>Automotive Innovation</i> , <b>2019</b> , 2, 276-283	1.7	1

50	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	60
49	Simultaneous path following and lateral stability control of 4WD-4WS autonomous electric vehicles with actuator saturation. <i>Advances in Engineering Software</i> , <b>2019</b> , 128, 46-54	3.6	30
48	Optimal control of intelligent vehicle longitudinal dynamics via hybrid model predictive control. <i>Robotics and Autonomous Systems</i> , <b>2019</b> , 112, 190-200	3.5	24
47	Traffic State Spatial-Temporal Characteristic Analysis and Short-Term Forecasting Based on Manifold Similarity. <i>IEEE Access</i> , <b>2018</b> , 6, 9690-9702	3.5	13
46	Salient object detection based on multi-scale contrast. <i>Neural Networks</i> , <b>2018</b> , 101, 47-56	9.1	48
45	Traffic state prediction using ISOMAP manifold learning. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 506, 532-541	3.3	14
44	Estimation of longitudinal force, lateral vehicle speed and yaw rate for four-wheel independent driven electric vehicles. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 101, 377-388	7.8	59
43	. <i>IEEE Access</i> , <b>2018</b> , 6, 24279-24290	3.5	5
42	Estimation of Longitudinal Force and Sideslip Angle for Intelligent Four-Wheel Independent Drive Electric Vehicles by Observer Iteration and Information Fusion. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
41	Analyzing the influence of automatic steering system on the trajectory tracking accuracy of intelligent vehicle. <i>Advances in Engineering Software</i> , <b>2018</b> , 121, 188-196	3.6	14
40	A 64-Line Lidar-Based Road Obstacle Sensing Algorithm for Intelligent Vehicles. <i>Scientific Programming</i> , <b>2018</b> , 2018, 1-7	1.4	3
39	Field-Oriented Control of Energy-Regenerative Electromagnetic Slip Coupling. <i>IEEE Access</i> , <b>2018</b> , 6, 52169-52178	3.5	7
38	Short-Time Traffic State Forecasting Using Adaptive Neighborhood Selection Based on Expansion Strategy. <i>IEEE Access</i> , <b>2018</b> , 6, 48210-48223	3.5	7
37	Robust sideslip angle observer with regional stability constraint for an uncertain singular intelligent vehicle system. <i>IET Control Theory and Applications</i> , <b>2018</b> , 12, 1802-1811	2.5	12
36	Piecewise Affine Identification of Tire Longitudinal Properties for Autonomous Driving Control Based on Data-Driven. <i>IEEE Access</i> , <b>2018</b> , 6, 47424-47432	3.5	7
35	Stochastic Predictive Energy Management of Power Split Hybrid Electric Bus for Real-World Driving Cycles. <i>IEEE Access</i> , <b>2018</b> , 6, 61700-61713	3.5	15
34	Multi-Objective Coordination Control Strategy of Distributed Drive Electric Vehicle by Orientated Tire Force Distribution Method. <i>IEEE Access</i> , <b>2018</b> , 6, 69559-69574	3.5	19
33	A Vehicle Recognition Algorithm Based on Deep Transfer Learning with a Multiple Feature Subspace Distribution. <i>Sensors</i> , <b>2018</b> , 18,	3.8	11

32	Vehicle Detection by Fusing Part Model Learning and Semantic Scene Information for Complex Urban Surveillance. <i>Sensors</i> , <b>2018</b> , 18,	3.8	5
31	Analysis and optimization of energy efficiency for an electric vehicle with four independent drive in-wheel motors. <i>Advances in Mechanical Engineering</i> , <b>2018</b> , 10, 168781401876554	1.2	5
30	Saliency Detection by Multilevel Deep Pyramid Model. <i>Journal of Sensors</i> , <b>2018</b> , 2018, 1-11	2	3
29	Kernel Sparse Representation with Hybrid Regularization for On-Road Traffic Sensor Data Imputation. <i>Sensors</i> , <b>2018</b> , 18,	3.8	3
28	Graph regularized local self-representation for missing value imputation with applications to on-road traffic sensor data. <i>Neurocomputing</i> , <b>2018</b> , 303, 47-59	5.4	7
27	Saliency-Based Pedestrian Detection in Far Infrared Images. <i>IEEE Access</i> , <b>2017</b> , 1-1	3.5	27
26	Spatiotemporal variable and parameter selection using sparse hybrid genetic algorithm for traffic flow forecasting. <i>International Journal of Distributed Sensor Networks</i> , <b>2017</b> , 13, 155014771771337	1.7	14
25	Visual Vehicle Tracking Based on Deep Representation and Semisupervised Learning. <i>Journal of Sensors</i> , <b>2017</b> , 2017, 1-6	2	1
24	Vehicle Detection Based on Deep Dual-Vehicle Deformable Part Models. <i>Journal of Sensors</i> , <b>2017</b> , 2017, 1-10	2	9
23	Ensemble correlation-based low-rank matrix completion with applications to traffic data imputation. <i>Knowledge-Based Systems</i> , <b>2017</b> , 132, 249-262	7.3	36
22	Scene-Adaptive Vehicle Detection Algorithm Based on a Composite Deep Structure. <i>IEEE Access</i> , <b>2017</b> , 5, 22804-22811	3.5	13
21	Pedestrian detection algorithm in traffic scene based on weakly supervised hierarchical deep model. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141769231	1.4	4
20	Path Tracking Control of Automatic Parking Cloud Model considering the Influence of Time Delay. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-14	1.1	10
19	Multilevel framework to handle object occlusions for real-time tracking. <i>IET Image Processing</i> , <b>2016</b> , 10, 885-892	1.7	11
18	Vehicle height and leveling control of electronically controlled air suspension using mixed logical dynamical approach. <i>Science China Technological Sciences</i> , <b>2016</b> , 59, 1814-1824	3.5	13
17	Discriminative sparsity preserving graph embedding <b>2016</b> ,		5
16	Occluded vehicle detection with local connected deep model. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 9277-9293	2.5	11
15	Vehicle height and posture control of the electronic air suspension system using the hybrid system approach. <i>Vehicle System Dynamics</i> , <b>2016</b> , 54, 328-352	2.8	30

14	Design of a hybrid model predictive controller for the vehicle height adjustment system of an electronic air suspension. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2016</b> , 230, 1504-1520	1.4	8
13	Night-Time Vehicle Detection Algorithm Based on Visual Saliency and Deep Learning. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-7	2	16
12	Night-Time Vehicle Sensing in Far Infrared Image with Deep Learning. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-8	2	13
11	Discriminant feature extraction for image recognition using complete robust maximum margin criterion. <i>Machine Vision and Applications</i> , <b>2015</b> , 26, 857-870	2.8	2
10	Trajectory-based anomalous behaviour detection for intelligent traffic surveillance. <i>IET Intelligent Transport Systems</i> , <b>2015</b> , 9, 810-816	2.4	49
9	A novel method for camera external parameters online calibration using dotted road line. <i>Advanced Robotics</i> , <b>2014</b> , 28, 1033-1042	1.7	5
8	A vehicle detection algorithm based on deep belief network. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 647380	2.2	14
7	A Multistep Framework for Vision Based Vehicle Detection. <i>Journal of Applied Mathematics</i> , <b>2014</b> , 2014, 1-9	1.1	3
6	A review of the development trend of adaptive cruise control for ecological driving. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 095440702110490	1.4	1
5	Event-triggered nonlinear model predictive control for trajectory tracking of unmanned vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 095440702199216	1.4	16
4	Design and analysis of robust state constraint control for direct yaw moment control system. <i>International Journal of Modelling and Simulation</i> , 1-10	1.5	0
3	Coordination control method of autonomous ground electric vehicle for simultaneous trajectory tracking and yaw stability control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 095440702210874	1.4	0
2	A high-performance neural network vehicle dynamics model for trajectory tracking control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 095440702210956	1.4	6
1	Deep multi-layer perceptron-based evolutionary algorithm for dynamic multiobjective optimization. <i>Complex &amp; Intelligent Systems</i> , 1	7.1	