Feng Gao

List of Publications by Year
in descending order

49 papers	1,455 citations	430754 18 h-index	330025 37 g-index
49 all docs	49 docs citations	49 times ranked	1243 citing authors

#	Article	IF	Citations
1	Dynamical Modeling and Distributed Control of Connected and Automated Vehicles: Challenges and Opportunities. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 46-58.	2.6	270
2	Robust control of heterogeneous vehicular platoon with uncertain dynamics and communication delay. IET Intelligent Transport Systems, 2016, 10, 503-513.	1.7	169
3	Distributed Adaptive Sliding Mode Control of Vehicular Platoon With Uncertain Interaction Topology. IEEE Transactions on Industrial Electronics, 2018, 65, 6352-6361.	5.2	127
4	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
5	Multiple-Model Switching Control of Vehicle Longitudinal Dynamics for Platoon-Level Automation. IEEE Transactions on Vehicular Technology, 2016, 65, 4480-4492.	3.9	93
6	Effects of Carbon Nanotubes on Photoluminescence Properties of Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 939-944.	1.5	84
7	DNA-Templated Ordered Array of Gold Nanorods in One and Two Dimensions. Journal of Physical Chemistry C, 2007, 111, 12572-12576.	1.5	67
8	Test Scenario Generation and Optimization Technology for Intelligent Driving Systems. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 115-127.	2.6	51
9	Robust Distributed Consensus Control of Uncertain Multiagents Interacted by Eigenvalue-Bounded Topologies. IEEE Internet of Things Journal, 2020, 7, 3790-3798.	5.5	35
10	Test Scenario Design for Intelligent Driving System Ensuring Coverage and Effectiveness. International Journal of Automotive Technology, 2018, 19, 751-758.	0.7	33
11	Automatic Virtual Test Technology for Intelligent Driving Systems Considering Both Coverage and Efficiency. IEEE Transactions on Vehicular Technology, 2020, 69, 14365-14376.	3.9	31
12	Robust Coordinated Control of Nonlinear Heterogeneous Platoon Interacted by Uncertain Topology. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4982-4992.	4.7	28
13	Motion Planning for Autonomous Vehicles Considering Longitudinal and Lateral Dynamics Coupling. Applied Sciences (Switzerland), 2020, 10, 3180.	1.3	27
14	A Dynamic Clustering Algorithm for Lidar Obstacle Detection of Autonomous Driving System. IEEE Sensors Journal, 2021, 21, 25922-25930.	2.4	27
15	Decoupled H $_\infty$ control of automated vehicular platoons with complex interaction topologies. IET Intelligent Transport Systems, 2017, 11, 92-101.	1.7	25
16	Design of dendrimer modified carbon nanotubes for gene delivery. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2007, 19, 1-6.	0.7	24
17	A Test Scenario Automatic Generation Strategy for Intelligent Driving Systems. Mathematical Problems in Engineering, 2019, 2019, 1-10.	0.6	22
18	Synthesis of multiple model switching controllers using <mml:math altimg="si0001.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	3.5	20

#	Article	IF	Citations
19	A Vehicle Type Dependent Car-following Model Based on Naturalistic Driving Study. Electronics (Switzerland), 2019, 8, 453.	1.8	18
20	Robust Control of Heterogeneous Vehicular Platoon with Non-Ideal Communication. Electronics (Switzerland), 2019, 8, 207.	1.8	17
21	Distributed $H\infty$ Control Of Platoon Interacted by Switching and Undirected Topology. International Journal of Automotive Technology, 2020, 21, 259-268.	0.7	17
22	Robust cooperation of connected vehicle systems with eigenvalue-bounded interaction topologies in the presence of uncertain dynamics. Frontiers of Mechanical Engineering, 2018, 13, 354-367.	2.5	16
23	Hybrid strategy for traffic light detection by combining classical and self‐learning detectors. IET Intelligent Transport Systems, 2020, 14, 735-741.	1.7	15
24	A Topology-Based Approach to Improve Vehicle-Level Electromagnetic Radiation. Electronics (Switzerland), 2019, 8, 364.	1.8	14
25	A Combined Object Detection Method With Application to Pedestrian Detection. IEEE Access, 2020, 8, 194457-194465.	2.6	13
26	Driving Capability-Based Transition Strategy for Cooperative Driving: From Manual to Automatic. IEEE Access, 2020, 8, 139013-139022.	2.6	13
27	Humanlike Decision and Motion Planning for Expressway Lane Changing Based on Artificial Potential Field. IEEE Access, 2022, 10, 4359-4373.	2.6	13
28	Accurate Pseudospectral Optimization of Nonlinear Model Predictive Control for High-Performance Motion Planning. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1034-1045.	9.4	10
29	Control of large model mismatch systems using multiple models. International Journal of Control, Automation and Systems, 2017, 15, 1494-1506.	1.6	9
30	Control of a heterogeneous vehicular platoon with uniform communication delay. , 2015, , .		7
31	Evolution test by improved genetic algorithm with application to performance limit evaluation of automatic parallel parking system. IET Intelligent Transport Systems, 2021, 15, 754-764.	1.7	7
32	Improvement of Low-Frequency Radiated Emission in Electric Vehicle by Numerical Analysis. Journal of Control Science and Engineering, 2018, 2018, 1-8.	0.8	5
33	Distributed $H\infty$ Control of AVs Interacting by Uncertain and Switching Topology in a Platoon. Journal of Advanced Transportation, 2019, 2019, 1-13.	0.9	5
34	Influence Analysis of Leader Information with Application to Formation Control of Multi-agent Systems. International Journal of Control, Automation and Systems, 2020, 18, 3062-3072.	1.6	5
35	A New Density-Based Clustering Method Considering Spatial Distribution of Lidar Point Cloud for Object Detection of Autonomous Driving. Electronics (Switzerland), 2021, 10, 2005.	1.8	5
36	Vehicle-Level Electromagnetic Compatibility Prediction Based on Multi-Port Network Theory. International Journal of Automotive Technology, 2019, 20, 1277-1285.	0.7	4

#	Article	IF	Citations
37	Distributed sliding mode control for formation of multiple nonlinear AVs coupled by uncertain topology. SN Applied Sciences, 2019, 1, 1.	1.5	4
38	Detection of Driving Capability Degradation for Human-Machine Cooperative Driving. Sensors, 2020, 20, 1968.	2.1	4
39	Performance Limit Evaluation by Evolution Test With Application to Automatic Parking System. IEEE Transactions on Intelligent Vehicles, 2023, 8, 3096-3105.	9.4	4
40	Hierarchical Switching Control of Longitudinal Acceleration With Large Uncertainties. , 2006, , .		3
41	Control of system with large parametric uncertainty using multiple robust controllers and switching. , 2014, , .		3
42	A Simplified Vehicle Dynamics Model for Motion Planner Designed by Nonlinear Model Predictive Control. Applied Sciences (Switzerland), 2021, 11, 9887.	1.3	3
43	Study on Kinematics Decoupling for Parallel Manipulator with Perpendicular Structures. , 2006, , .		2
44	A topological approach to model and improve vehicle–level electromagnetic radiation. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21904.	0.8	2
45	Model-Based Analysis and Improvement of Vehicle Radiation Emissions at Low Frequency. Applied Sciences (Switzerland), 2021, 11, 8250.	1.3	2
46	Balancing Accuracy and Efficiency: Fast Motion Planning Based on Nonlinear Model Predictive Control. , 2021, , .		2
47	Performance Limit Evaluation Strategy for Automated Driving Systems. Automotive Innovation, 2022, 5, 79.	3.1	1
48	Performance enhancement of supervisory control for largely mismatched processes. , 2015, , .		0
49	A Humanlike Lane Change Decision Strategy for Mixed Traffics with Multi-objects. , 2022, , .		0