

# Feng Gao

## List of Publications by Year in descending order

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49  
papers

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citations

430754

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docs citations

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times ranked

1243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Limit Evaluation by Evolution Test With Application to Automatic Parking System. IEEE Transactions on Intelligent Vehicles, 2023, 8, 3096-3105.	9.4	4
2	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
3	Test Scenario Generation and Optimization Technology for Intelligent Driving Systems. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 115-127.	2.6	51
4	Robust Coordinated Control of Nonlinear Heterogeneous Platoon Interacted by Uncertain Topology. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4982-4992.	4.7	28
5	Humanlike Decision and Motion Planning for Expressway Lane Changing Based on Artificial Potential Field. IEEE Access, 2022, 10, 4359-4373.	2.6	13
6	Performance Limit Evaluation Strategy for Automated Driving Systems. Automotive Innovation, 2022, 5, 79.	3.1	1
7	A Humanlike Lane Change Decision Strategy for Mixed Traffics with Multi-objects. , 2022, , .		0
8	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
9	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
10	Model-Based Analysis and Improvement of Vehicle Radiation Emissions at Low Frequency. Applied Sciences (Switzerland), 2021, 11, 8250.	1.3	2
11	A Dynamic Clustering Algorithm for Lidar Obstacle Detection of Autonomous Driving System. IEEE Sensors Journal, 2021, 21, 25922-25930.	2.4	27
12	A Simplified Vehicle Dynamics Model for Motion Planner Designed by Nonlinear Model Predictive Control. Applied Sciences (Switzerland), 2021, 11, 9887.	1.3	3
13	Balancing Accuracy and Efficiency: Fast Motion Planning Based on Nonlinear Model Predictive Control. , 2021, , .		2
14	A Combined Object Detection Method With Application to Pedestrian Detection. IEEE Access, 2020, 8, 194457-194465.	2.6	13
15	Driving Capability-Based Transition Strategy for Cooperative Driving: From Manual to Automatic. IEEE Access, 2020, 8, 139013-139022.	2.6	13
16	Hybrid strategy for traffic light detection by combining classical and self-learning detectors. IET Intelligent Transport Systems, 2020, 14, 735-741.	1.7	15
17	Motion Planning for Autonomous Vehicles Considering Longitudinal and Lateral Dynamics Coupling. Applied Sciences (Switzerland), 2020, 10, 3180.	1.3	27
18	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

#	ARTICLE	IF	CITATIONS
19	Robust Distributed Consensus Control of Uncertain Multiagents Interacted by Eigenvalue-Bounded Topologies. IEEE Internet of Things Journal, 2020, 7, 3790-3798.	5.5	35
20	Distributed $H^\infty$ Control Of Platoon Interacted by Switching and Undirected Topology. International Journal of Automotive Technology, 2020, 21, 259-268.	0.7	17
21	Detection of Driving Capability Degradation for Human-Machine Cooperative Driving. Sensors, 2020, 20, 1968.	2.1	4
22	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
23	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
24	Robust Control of Heterogeneous Vehicular Platoon with Non-Ideal Communication. Electronics (Switzerland), 2019, 8, 207.	1.8	17
25	Distributed Control of AVs Interacting by Uncertain and Switching Topology in a Platoon. Journal of Advanced Transportation, 2019, 2019, 1-13.	0.9	5
26	Vehicle-Level Electromagnetic Compatibility Prediction Based on Multi-Port Network Theory. International Journal of Automotive Technology, 2019, 20, 1277-1285.	0.7	4
27	A Vehicle Type Dependent Car-following Model Based on Naturalistic Driving Study. Electronics (Switzerland), 2019, 8, 453.	1.8	18
28	A Topology-Based Approach to Improve Vehicle-Level Electromagnetic Radiation. Electronics (Switzerland), 2019, 8, 364.	1.8	14
29	Distributed sliding mode control for formation of multiple nonlinear AVs coupled by uncertain topology. SN Applied Sciences, 2019, 1, 1.	1.5	4
30	A Test Scenario Automatic Generation Strategy for Intelligent Driving Systems. Mathematical Problems in Engineering, 2019, 2019, 1-10.	0.6	22
31	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
32	Distributed Adaptive Sliding Mode Control of Vehicular Platoon With Uncertain Interaction Topology. IEEE Transactions on Industrial Electronics, 2018, 65, 6352-6361.	5.2	127
33	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
34	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
35	Test Scenario Design for Intelligent Driving System Ensuring Coverage and Effectiveness. International Journal of Automotive Technology, 2018, 19, 751-758.	0.7	33
36	Decoupled $H^\infty$ control of automated vehicular platoons with complex interaction topologies. IET Intelligent Transport Systems, 2017, 11, 92-101.	1.7	25

#	ARTICLE	IF	CITATIONS
37	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
38	Control of large model mismatch systems using multiple models. International Journal of Control, Automation and Systems, 2017, 15, 1494-1506.	1.6	9
39	Robust control of heterogeneous vehicular platoon with uncertain dynamics and communication delay. IET Intelligent Transport Systems, 2016, 10, 503-513.	1.7	169
40	Multiple-Model Switching Control of Vehicle Longitudinal Dynamics for Platoon-Level Automation. IEEE Transactions on Vehicular Technology, 2016, 65, 4480-4492.	3.9	93
41	Performance enhancement of supervisory control for largely mismatched processes. , 2015, , . Synthesis of multiple model switching controllers using $\langle \text{mml:math altimg="si0001.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co} \rangle$		0
42	Control of a heterogeneous vehicular platoon with uniform communication delay. , 2015, , .	3.5	20
43	Control of a heterogeneous vehicular platoon with uniform communication delay. , 2015, , .		7
44	Control of system with large parametric uncertainty using multiple robust controllers and switching. , 2014, , .		3
45	Effects of Carbon Nanotubes on Photoluminescence Properties of Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 939-944.	1.5	84
46	DNA-Templated Ordered Array of Gold Nanorods in One and Two Dimensions. Journal of Physical Chemistry C, 2007, 111, 12572-12576.	1.5	67
47	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
48	Study on Kinematics Decoupling for Parallel Manipulator with Perpendicular Structures. , 2006, , .		2
49	Hierarchical Switching Control of Longitudinal Acceleration With Large Uncertainties. , 2006, , .		3