# Peng Hang

List of Publications by Year
in descending order

| 45 | 1,238 | 448610 | 466096 |
|----|-------|--------|--------|
| papers | citations | 19 | 32 |
| | | h-index | g-index |

| 46 | 46 | 46 | 494 |
|----|----|----|-----|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Cooperative Decision Making of Connected Automated Vehicles at Multi-Lane Merging Zone: A Coalitional Game Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3829-3841. | 4.7 | 51 |
| 2 | Active Safety Control of Automated Electric Vehicles at Driving Limits: A Tube-Based MPC Approach. IEEE Transactions on Transportation Electrification, 2022, 8, 1338-1349. | 5.3 | 39 |
| 3 | Human-Machine Cooperative Trajectory Planning and Tracking for Safe Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12050-12063. | 4.7 | 14 |
| 4 | Data-Driven Estimation of Driver Attention Using Calibration-Free Eye Gaze and Scene Features. IEEE Transactions on Industrial Electronics, 2022, 69, 1800-1808. | 5.2 | 45 |
| 5 | Human–Machine Adaptive Shared Control for Safe Driving Under Automation Degradation. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 53-66. | 2.6 | 23 |
| 6 | Human-Like Interactive Behavior Generation for Autonomous Vehicles: A Bayesian Game-Theoretic Approach with Turing Test. Advanced Intelligent Systems, 2022, 4, . | 3.3 | 12 |
| 7 | Adaptive Coordinated Path Tracking Control Strategy for Autonomous Vehicles with Direct Yaw Moment Control. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, . | 1.9 | 61 |
| 8 | Conflict resolution for connected automated vehicles at unsignalized roundabouts considering personalized driving behaviours. , 2022, 1, 100003. |  | 6 |
| 9 | Driving Conflict Resolution of Autonomous Vehicles at Unsignalized Intersections: A Differential Game Approach. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5136-5146. | 3.7 | 21 |
| 10 | A Gain-Scheduled Robust Controller for Autonomous Vehicles Path Tracking Based on LPV System With MPC and $H_\infty$. IEEE Transactions on Vehicular Technology, 2022, 71, 9350-9362. | 3.9 | 15 |
| 11 | Nonlinear Predictive Motion Control for Autonomous Mobile Robots Considering Active Fault-Tolerant Control and Regenerative Braking. Sensors, 2022, 22, 3939. | 2.1 | 7 |
| 12 | Towards Active Safety Driving: Controller Design of an Active Rear Steering System for Intelligent Vehicles. Machines, 2022, 10, 544. | 1.2 | 2 |
| 13 | Path planning of collision avoidance for unmanned ground vehicles: A nonlinear model predictive control approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 222-236. | 0.7 | 19 |
| 14 | Path tracking control of 4-wheel-steering autonomous ground vehicles based on linear parameter-varying system with experimental verification. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 411-423. | 0.7 | 22 |
| 15 | Collision-Probability-Aware Human-Machine Cooperative Planning for Safe Automated Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 9752-9763. | 3.9 | 23 |
| 16 | Human-Like Decision Making for Autonomous Driving: A Noncooperative Game Theoretic Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2076-2087. | 4.7 | 127 |
| 17 | Toward Safe and Personalized Autonomous Driving: Decision-Making and Motion Control With DPF and CDT Techniques. IEEE/ASME Transactions on Mechatronics, 2021, 26, 611-620. | 3.7 | 39 |
| 18 | Handling Stability Advancement With 4WS and DYC Coordinated Control: A Gain-Scheduled Robust Control Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 3164-3174. | 3.9 | 36 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Decision Making of Connected Automated Vehicles at an Unsignalized Roundabout Considering Personalized Driving Behaviours. IEEE Transactions on Vehicular Technology, 2021, 70, 4051-4064. | 3.9 | 37 |
| 20 | Deep convolutional neural network-based Bernoulli heatmap for head pose estimation. Neurocomputing, 2021, 436, 198-209. | 3.5 | 28 |
| 21 | Personalized Trajectory Planning and Control of Lane-Change Maneuvers for Autonomous Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 5511-5523. | 3.9 | 48 |
| 22 | 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 |
| 23 | Toward Safe and Smart Mobility: Energy-Aware Deep Learning for Driving Behavior Analysis and Prediction of Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4267-4280. | 4.7 | 40 |
| 24 | Cyber-Attack Detection for Autonomous Driving Using Vehicle Dynamic State Estimation. Automotive Innovation, 2021, 4, 262-273. | 3.1 | 13 |
| 25 | Advancing Estimation Accuracy of Sideslip Angle by Fusing Vehicle Kinematics and Dynamics Information With Fuzzy Logic. IEEE Transactions on Vehicular Technology, 2021, 70, 6577-6590. | 3.9 | 20 |
| 26 | Game Theoretic Modeling and Decision Making for Connected Vehicle Interactions at Urban Intersections. , 2021, , . | | 3 |
| 27 | Digital Twin-enabled Reinforcement Learning for End-to-end Autonomous Driving. , 2021, , . | | 5 |
| 28 | Towards Autonomous Driving: Review and Perspectives on Configuration and Control of Four-Wheel Independent Drive/Steering Electric Vehicles. Actuators, 2021, 10, 184. | 1.2 | 37 |
| 29 | Cooperative Control Framework for Human Driver and Active Rear Steering System to Advance Active Safety. IEEE Transactions on Intelligent Vehicles, 2021, 6, 460-469. | 9.4 | 19 |
| 30 | Cooperative Decision Making of Lane-change for Automated Vehicles Considering Human-like Driving Characteristics. , 2021, , . | | 8 |
| 31 | Path Tracking Control of Four-wheel Independent Steering Electric Vehicles Based on Optimal Control. , 2020, , . | | 12 |
| 32 | An Integrated Framework of Decision Making and Motion Planning for Autonomous Vehicles Considering Social Behaviors. IEEE Transactions on Vehicular Technology, 2020, 69, 14458-14469. | 3.9 | 86 |
| 33 | Human-Like Lane-Change Decision Making for Automated Driving with a Game Theoretic Approach. , 2020, , . | | 6 |
| 34 | Researches on 4WIS-4WID Stability with LQR Coordinated 4WS and DYC. Lecture Notes in Mechanical Engineering, 2020, , 1508-1516. | 0.3 | 9 |
| 35 | Reference-Free Human-Automation Shared Control for Obstacle Avoidance of Automated Vehicles. , 2020, , . | | 3 |
| 36 | LPV/Hâˆž Controller Design for Path Tracking of Autonomous Ground Vehicles Through Four-Wheel Steering and Direct Yaw-Moment Control. International Journal of Automotive Technology, 2019, 20, 679-691. | 0.7 | 67 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Integrated chassis control algorithm design for path tracking based on four-wheel steering and direct yaw-moment control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 625-641. | 0.7 | 24 |
| 38 | Longitudinal Velocity Tracking Control of a 4WID Electric Vehicle. IFAC-PapersOnLine, 2018, 51, 790-795. | 0.5 | 15 |
| 39 | Design of an Active Collision Avoidance System for a 4WIS-4WID Electric Vehicle. IFAC-PapersOnLine, 2018, 51, 771-777. | 0.5 | 9 |
| 40 | Robust control for four-wheel-independent-steering electric vehicle with steer-by-wire system. International Journal of Automotive Technology, 2017, 18, 785-797. | 0.7 | 47 |
| 41 | Design and analysis of a novel wheel type continuously variable transmission. Mechanism and Machine Theory, 2017, 107, 13-26. | 2.7 | 17 |
| 42 | Path tracking control of a four-wheel-independent-steering electric vehicle based on model predictive control. , 2017, , . | | 16 |
| 43 | Sliding mode-based learning control for a novel steering-by-wire system. , 2017, , . | | 1 |
| 44 | Robust Control of a Four-Wheel-Independent-Steering Electric Vehicle for Path Tracking. SAE International Journal of Vehicle Dynamics, Stability, and NVH, 0, 1, 307-316. | 0.5 | 29 |
| 45 | Path-Tracking Controller Design for a 4WIS and 4WID Electric Vehicle with Steer-by-Wire System. , 0, , . | | 17 |