

Hongbo Gao

List of Publications by Year in descending order

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49
papers

1,899
citations

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times ranked

1641
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An Interacting Multiple Model for Trajectory Prediction of Intelligent Vehicles in Typical Road Traffic Scenario. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6468-6479. | 7.2 | 40 |
| 2 | Situational Assessment for Intelligent Vehicles Based on Stochastic Model and Gaussian Distributions in Typical Traffic Scenarios. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1426-1436. | 5.9 | 44 |
| 3 | Deep Learning Method for Grasping Novel Objects Using Dexterous Hands. IEEE Transactions on Cybernetics, 2022, 52, 2750-2762. | 6.2 | 8 |
| 4 | Discretionary Cut-In Driving Behavior Risk Assessment Based on Naturalistic Driving Data. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 29-40. | 2.6 | 8 |
| 5 | Robust Lateral Trajectory Following Control of Unmanned Vehicle Based on Model Predictive Control. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1278-1287. | 3.7 | 41 |
| 6 | Robust Target Recognition and Tracking of Self-Driving Cars With Radar and Camera Information Fusion Under Severe Weather Conditions. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6640-6653. | 4.7 | 98 |
| 7 | A Structure Constraint Matrix Factorization Framework for Human Behavior Segmentation. IEEE Transactions on Cybernetics, 2022, 52, 12978-12988. | 6.2 | 16 |
| 8 | Adaptive Finite-Time Trajectory Tracking Control of Autonomous Vehicles That Experience Disturbances and Actuator Saturation. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 80-91. | 2.6 | 2 |
| 9 | Human motion segmentation based on structure constraint matrix factorization. Science China Information Sciences, 2022, 65, 1. | 2.7 | 18 |
| 10 | Automatic Parking Control of Unmanned Vehicle Based on Switching Control Algorithm and Backstepping. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1233-1243. | 3.7 | 35 |
| 11 | Adaptive Event-Triggered Boundary Control for a Flexible Manipulator With Input Quantization. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3706-3716. | 3.7 | 7 |
| 12 | RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5336-5348. | 5.9 | 44 |
| 13 | Adaptive Fuzzy-Region-Based Control of Euler-Lagrange Systems With Kinematically Singular Configurations. IEEE Transactions on Fuzzy Systems, 2021, 29, 2169-2179. | 6.5 | 12 |
| 14 | Receding Horizon Control-Based Motion Planning With Partially Infeasible LTL Constraints. , 2021, 5, 1279-1284. | | 16 |
| 15 | EEG-Based Volitional Control of Prosthetic Legs for Walking in Different Terrains. IEEE Transactions on Automation Science and Engineering, 2021, 18, 530-540. | 3.4 | 36 |
| 16 | Unstructured road parameter cognition for ICVs using multi-frame 3D point clouds. Cognitive Computation and Systems, 2021, 3, 169-182. | 0.8 | 0 |
| 17 | Trajectory prediction of cyclist based on dynamic Bayesian network and long short-term memory model at unsignalized intersections. Science China Information Sciences, 2021, 64, 1. | 2.7 | 56 |
| 18 | Personalized Trajectory Planning and Control of Lane-Change Maneuvers for Autonomous Driving. IEEE Transactions on Vehicular Technology, 2021, 70, 5511-5523. | 3.9 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Interpretable Decision-Making for Autonomous Vehicles at Highway On-Ramps With Latent Space Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 8707-8719. | 3.9 | 27 |
| 20 | YOLOv4-5D: An Effective and Efficient Object Detector for Autonomous Driving. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13. | 2.4 | 142 |
| 21 | Lateral Control of Intelligent Driving Vehicles under Extreme Conditions. , 2021, , . | | 0 |
| 22 | Control Rights Distribution Weights and Takeover Authority for Human-machine Co-driving based on Fuzzy Control Algorithm. , 2021, , . | | 1 |
| 23 | Reference Trajectory Reshaping Optimization and Control of Robotic Exoskeletons for Human-Robot Co-Manipulation. IEEE Transactions on Cybernetics, 2020, 50, 3740-3751. | 6.2 | 44 |
| 24 | Adaptive Sliding Mode Based Disturbance Attenuation Tracking Control for Wheeled Mobile Robots. International Journal of Control, Automation and Systems, 2020, 18, 1288-1298. | 1.6 | 39 |
| 25 | Driving policies of V2X autonomous vehicles based on reinforcement learning methods. IET Intelligent Transport Systems, 2020, 14, 331-337. | 1.7 | 15 |
| 26 | Integrated navigation approaches of vehicle aided by the strapdown celestial angles. International Journal of Advanced Robotic Systems, 2020, 17, 172988142093200. | 1.3 | 2 |
| 27 | The effects of using taxi-hailing application on driving performance. International Journal of Advanced Robotic Systems, 2019, 16, 172988141983021. | 1.3 | 2 |
| 28 | Manoeuvre prediction and planning for automated and connected vehicles based on interaction and gaming awareness under uncertainty. IET Intelligent Transport Systems, 2019, 13, 933-941. | 1.7 | 7 |
| 29 | Hardware and software architecture of intelligent vehicles and road verification in typical traffic scenarios. IET Intelligent Transport Systems, 2019, 13, 960-966. | 1.7 | 29 |
| 30 | Behavior Prediction and Planning for Intelligent Vehicles Based on Multi-vehicles Interaction and Game Awareness. Communications in Computer and Information Science, 2019, , 437-453. | 0.4 | 2 |
| 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 | Real-time vehicle detection and tracking using improved histogram of gradient features and Kalman filters. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774994. | 1.3 | 30 |
| 33 | Object Classification Using CNN-Based Fusion of Vision and LIDAR in Autonomous Vehicle Environment. IEEE Transactions on Industrial Informatics, 2018, 14, 4224-4231. | 7.2 | 359 |
| 34 | Vehicle Trajectory Prediction by Integrating Physics- and Maneuver-Based Approaches Using Interactive Multiple Models. IEEE Transactions on Industrial Electronics, 2018, 65, 5999-6008. | 5.2 | 230 |
| 35 | A Novel Framework for Road Traffic Risk Assessment with HMM-Based Prediction Model. Sensors, 2018, 18, 4313. | 2.1 | 20 |
| 36 | DHA: Lidar and Vision data Fusion-based On Road Object Classifier. , 2018, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Car-following method based on inverse reinforcement learning for autonomous vehicle decision-making. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881716. | 1.3 | 43 |
| 38 | Object Detection Based on Hierarchical Multi-view Proposal Network for Autonomous Driving. , 2018, , , | | 6 |
| 39 | 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 |
| 40 | Ring Fusion of Fisheye Images Based on Corner Detection Algorithm for Around View Monitoring System of Intelligent Driving. Journal of Robotics, 2018, 2018, 1-9. | 0.6 | 1 |
| 41 | A Hardware Platform Framework for an Intelligent Vehicle Based on a Driving Brain. Engineering, 2018, 4, 464-470. | 3.2 | 91 |
| 42 | Multi-view clustering based on graph-regularized nonnegative matrix factorization for object recognition. Information Sciences, 2018, 432, 463-478. | 4.0 | 77 |
| 43 | Driver braking behavior analysis to improve autonomous emergency braking systems in typical Chinese vehicle-bicycle conflicts. Accident Analysis and Prevention, 2017, 108, 74-82. | 3.0 | 47 |
| 44 | Semantic segmentation-aided visual odometry for urban autonomous driving. International Journal of Advanced Robotic Systems, 2017, 14, 172988141773566. | 1.3 | 30 |
| 45 | Technology of intelligent driving radar perception based on driving brain. CAAI Transactions on Intelligence Technology, 2017, 2, 93-100. | 3.4 | 7 |
| 46 | Technology and application of intelligent driving based on visual perception. CAAI Transactions on Intelligence Technology, 2017, 2, 126-132. | 3.4 | 5 |
| 47 | Longitudinal Control for Mengshi Autonomous Vehicle via Gauss Cloud Model. Sustainability, 2017, 9, 2259. | 1.6 | 10 |
| 48 | Situational Assessments Based on Uncertainty-Risk Awareness in Complex Traffic Scenarios. Sustainability, 2017, 9, 1582. | 1.6 | 17 |
| 49 | Cloud Model Approach for Lateral Control of Intelligent Vehicle Systems. Scientific Programming, 2016, 2016, 1-12. | 0.5 | 7 |