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Nota di contenuto

-- Consistency Constraints Based Fisheye Visual Inertial Odometry for Wheels Mobile Robots. -- Distortion-free BEV generation method with complete ground information. -- Research on Autonomous Navigation of Unmanned Chassis for Flying Vehicles. -- Segmented Visual Pose Estimation Method for Neural Radiation Field Based on Deep Supervision. -- Energy Management for Hybrid Electric Vehicle using Domain Control under Vehicle-road-cloud Communication Architecture . -- DAB-VIO: Depth Augmented Bio-Visual Inertial Odometry. -- Harmonic Suppression Method of Motor Drive System Based on Full-Order Extended Kalman Filter. -- OFF-CSUNet: Cross-Attention Fusion Network for Unstructured Off-Road Free-Space Detection. -- Research on the Integrated Vehicle-Road-Cloud Dynamic Cognitive Map Model and Key Technologies. -- EA-AKA: An Efficient and Privacy-Preserving Authentication Key Agreement Protocol in VANETs. -- Knowledge Representation and Reasoning Methods for Traffic Management at Road Intersections. -- A Review of Software Defect Prediction in Intelligent Vehicles. -- Charging Voltage Fault Diagnosis Method Based on Vehicle-pile Data Fusion. -- RetroreflectionBA: Leveraging Retroreflection as a Backdoor Attack Trigger for Fooling Pedestrian Detection Models. -- HLM-YOLO:A Lightweight Instance Segmentation Model for Road Potholes. -- End-to-End Autonomous Driving Decision Method Based on Memory Attention Convolutional Neural Networks. -- Active Composite Hierarchical Fault-Tolerant Control for Unmanned Vehicles Against Sensor and Actuator Faults. -- MASTER: Multimodal Segmentation with Text Prompts. -- An EV Charging Scheduling Strategy Considering User Demand of Distribution Networks. -- Prospects of NeRF-based Autonomous Driving Simulation Scene Reconstruction Technology. -- Enhancing LiDAR Localization in Perceptually Degraded Environments through Multi-anchor UWB Integration. -- Critical Scenarios Generation of Pedestrian-Vehicle Interaction for Autonomous Driving Testing. -- Spatio-temporal Encoded Flow Prediction Model with Traffic Event Consideration. -- Advancements in 3D Gaussian Splatting-Based SLAM Technology. -- Indoor Localization Method Based on AMCL and Map Matching for Mobile Robots. -- Visual Navigation and Path Planning Methods for Orchard Intelligent Unmanned Vehicle. -- YOLOv5-LMPD: A Lightweight Road Pothole Detection Model Under Multiple Lighting Conditions. -- A Large Language Model with Ritrival-Augmented Generation for Intelligent Maize Breeding Vehicle. -- Maize Ear Object Detection Method Based on Improved YOLOv8 for Intelligent Breeding Unmanned Vehicle. -- Heterogeneous MARL Framework for Efficient Vehicle Path Planning in Mixed Traffic Scenarios. -- Traffic Subject Semantic Information Interaction Method.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second CCF Intelligent Vehicles Symposium on Intelligent Vehicles, CCF CIVS 2024, held in Wuhan, China, during October 19–20, 2024. The 31 full papers included in this book were carefully reviewed and selected from 60 submissions. The papers contained in these proceedings address challenging issues in autonomous driving, lidar, radar, camera, LLM, battery, motor, electronic control, charging technology, sensing, location, HD Maps, navigation, prediction, planning, control, security, vehicular networking and communication, as well as the fundamentals and applications of computing.