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shot Object Goal Navigation -- AllWeather-Net: Unified Image Enhancement for Autonomous Driving Under Adverse Weather and Low-Light Conditions -- Uni4DAL: A Unified Baseline for Multi-dataset 4D Auto-Labeling -- Dual-Attention Fusion Network with Edge and Content Guidance for Remote Sensing Images Segmentation -- Distortion Correction Sub-Network for Semantic Segmentation based on Deep Hough Transform -- MemoFlow: Modifying Explicit Motion of Inconsistency in Optical Flow -- Enhanced Brain Tumor Segmentation Using Preprocessing Techniques and 3D U-Net -- Joint Top-Down and Bottom-Up Frameworks for 3D Visual Grounding -- Anticipating Future Object Compositions without Forgetting -- SPK: Semantic and Positional Knowledge for Zero-shot Referring Expression Comprehension -- Can Language Improve Visual Features For Distinguishing Unseen Plant Diseases? -- Show Me the World in My Language: Establishing the First Baseline for Scene-Text to Scene-Text Translation -- iGrasp: An Interactive 2D-3D Framework for 6-DoF Grasp Detection -- Goal-Driven Transformer for Robot Behavior Learning from Play Data -- Adaptive Dynamic VSLAM: Refining Semantic-Geometric Fusion and Static Background Inpainting -- Hierarchical Visual Place Recognition with Semantic-guided Attention -- Dense Reconstruction and Localization in Scenes with Glass Surfaces Based on ORB-SLAM2 -- Content-Aware Feature Upsampling for Voxel-based 3D Semantic Segmentation -- Enhancing 3D Referential Grounding by Learning Coarse Spatial Relationships -- PointGADM: Geometry Acquainted Deep Model for 3D Point Cloud Analysis -- CroMA: Cross-Modal Attention for Visual Question Answering in Robotic Surgery.

Sommario/riassunto

The multi-volume set of LNCS books with volume numbers 15301-15333 constitutes the refereed proceedings of the 27th International Conference on Pattern Recognition, ICPR 2024, held in Kolkata, India, during December 1–5, 2024. The 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions. They deal with topics such as Pattern Recognition; Artificial Intelligence; Machine Learning; Computer Vision; Robot Vision; Machine Vision; Image Processing; Speech Processing; Signal Processing; Video Processing; Biometrics; Human-Computer Interaction (HCI); Document Analysis; Document Recognition; Biomedical Imaging; Bioinformatics.