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Nota di contenuto	MMOTS: A Multi-UAV Pursuit-Evasion Game Training Strategy Relying on Offline Reinforcement Learning -- SMSF-Net: A Semantics-Driven Multiscale Selective Fusion Network for Object Detection in Remote Sensing Images -- Enhanced ResNet with Attention Mechanisms for High-Accuracy Wildlife Monitoring: A Case Study on Penguins and Turtles -- Area-part Composite Graph Guided Robot Manipulation Reasoning in 3C Assembly -- Multi-Sensor Fusion for Localization and Mapping in Complex Environments -- BNF: Bayesian Network Fusion for Multimodal Sentiment Analysis -- Driver Cognitive Distraction Detection Based on Eye Movement Behavior and Spatio-Temporal Information Fusion -- Nested Relation Extraction Using Direct or

Indirect Relations Between Entities -- Adaptively Augmented Consistency Learning: A Semi-supervised Segmentation Framework for Remote Sensing -- SABE: Structure-Aware Boundary-Enhanced Network for Elementary Topic Unit Extraction in Dialogue -- Enhancing Prompt Tuning with Multitask Embedding Reparameterization -- STD: Using Self-attention Discriminators to Improve Speech Synthesis -- Automated Landslide Detection: A Comparative Study of Change Detection and Semantic Segmentation Techniques -- Leveraging LLMs to Enhance NLP Performance through Distillation and Optimized Training Strategies -- Adaptive Nearest Neighbor Sememe Tree Generation Model -- "Flipped" University: LLM-Assisted Lifelong Learning Environment -- ResWCAE: Biometric Pattern Image Denoising -- PEDRO: Parameter-Efficient Fine-tuning with Prompt Dependent Representation Modification -- SAP-BERT: BERT Inference Acceleration through Skip-layer and Adaptive Patient Early Exiting -- Diffusion-MPPI: Diffusion Informed Model Predictive Path Integral Method -- GAF-FusionNet: Multimodal ECG Analysis via Gramian Angular Fields and Split Attention -- Assessing and Enhancing the Robustness of Large Language Models with Task Structure Variations for Logical Reasoning -- MEIG: An Interactive Attention-Based Generative Model for Multimodal Event Extraction -- Advancing Respiratory Sound Classification: Integration of Audio Spectrogram Transformer with ConnectMix and NEFTune Augmentation -- Short-term Wind Power Prediction Based on CNN-Transformer -- HierFormer: A Multi-scale Attention Model for Ship Trajectory Prediction -- Enhanced Facial Emotion Detection Models Utilizing Geometry-Based Features for Superior Human-Computer Interaction -- Annotator Disagreement-based Analysis for Developing Bias Benchmark Datasets in Resource-Restricted Settings.

Sommario/riassunto

The eleven-volume set LNCS 15286-15295 constitutes the refereed proceedings of the 31st International Conference on Neural Information Processing, ICONIP 2024, held in Auckland, New Zealand, in December 2024. The 318 regular papers presented in the proceedings set were carefully reviewed and selected from 1301 submissions. They focus on four main areas, namely: theory and algorithms; cognitive neurosciences; human-centered computing; and applications.
