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Special Session on Multimedia Research in Robotics -- Multimodal Engagement Prediction in Human-Robot Interaction using Transformer Neural Networks -- What Should Autonomous Robots Verbalize and What Should They Not? -- Special Session: SpIMA: Special Session on Spatial Intelligence in Multimedia Analytics -- Counting Unique Objects in Geo-Tagged Street Images: A Case Study Of Homeless Encampments in Los Angeles -- Special Session on Simulating Edge Computing and Multimodal AI: A Benchmark for Real-World Applications -- Correlation-Based Weighted Federated Learning with Multimodal Sensing and Knowledge Distillation: An Application on a Real-World Benchmark Dataset -- Leveraging Pruning, Quantization and Multi-Objective Optimization for an Efficient Deployment of Multi-modal Models -- Demo Papers -- A User Identification and Reading Style Detection System Based on Eye Movement Patterns During Reading -- AMDA: Advancing Multimedia Data Annotation for Human-centric Situations -- An Implementation of Networked JamSketch -- Badminton Footwork Practice via an Immersive Virtual Reality System -- Better Image Segmentation with Classification: Guiding Zero-Shot Models Using Class Activation Maps -- CleverFox: Integrating Visual Mnemonics with AI for Enhanced Language Learning -- Enhancing User Control in AI-Based Video Summarization for Social Media -- FencBuddy: Action-aware Depth Perception Training for Fencing Attacks -- Fingering Prediction for Classical Guitar: Dataset Creation and Model Development -- KuzushijiFontDiff: Diffusion Model for Japanese Kuzushiji Font Generation -- Leveraging Latent Diffusion in 3D Gaussian Splatting for Novel View Synthesis.-Movie Retrieval Systems Using Genre-guided Multimodal Learning Techniques -- Multi-Dimensional Exploration of Media Collection Metadata -- Multimodal Interoperability with the CLAMS Platform -- Real-time Visualizer for Turntablist Performance -- RoboDJ: Live Commentary Robots System Driven by Physical- and Cyber-world Observations.- SceneTextStyler: Editing Text with Style Transformation -- SelectSum: Topic-Based Selective Summarization of Speech-Based Videos -- Smart Driving Assistance with Real-time Risk Assessment and Personalized Driving Coaching to Enhance Road Safety -- System Demo of Modeling Smart University Campus Virtual Environments -- Training a Segmentation-based Visual Anonymization Service for Street Scenes -- Transformer-Based Audio Generation Conditioned by 2D Latent Maps: A Demonstration -- Using Language Models to Generate and Forget the Narrative Memories of an Assistive Robot -- WaveFontStyler: Font Style Transfer Based on Sound -- Video Browser Showdown -- diveXplore at the Video Browser Showdown 2025 -- Exquisitor at the Video Browser Showdown 2025: Unifying Conversational Search and User Relevance Feedback -- Feature-driven Video Segmentation and Advanced Querying with vitrivr-engine -- FUSIONISTA: Fusion of 3-D Information of Video in Retrieval System -- HORUS: Multimodal Large Language Models Framework for Video Retrieval at VBS 2025 -- IMSearch 2.0: Toward User-centric and Efficient Interactive Multimedia Retrieval System -- Interactive Video Search with Multi-modal LLM Video Captioning -- MediaMix: Multimedia Retrieval in Mixed Reality -- NII UIT at VBS2025: Multimodal Video Retrieval with LLM Integration and Dynamic Temporal Search.-PraK Tool V3: Enhancing Video Item Search Using Localized Text and Texture Queries -- Simplified Video Retrieval in Virtual Reality with vitrivr-VR -- SnapSeek 2.0 at Video Browser Showdown 2025 -- VEAGLE: Eye Gaze-Assisted Guidance for Video Browser Showdown -- VERGE in VBS 2025 -- VideoEase at VBS2025: An Interactive Video Retrieval System.-ViewsInsight2.0: Enhancing Video Retrieval for VBS 2025 with an Automatic Query Generator Powered by

Sommario/riassunto

This five-volume set LNCS 15520-15524 constitutes the proceedings of the 31st International Conference on Multimedia Modeling, MMM 2025, held in Nara, Japan, January 8–10, 2025. The 135 full papers and 41 short papers presented in these proceedings were carefully reviewed and selected from 348 submissions. The MMM conference was organized in topics related to multimedia modelling, particularly: audio, image, video processing, coding and compression; multimodal analysis for retrieval applications, and multimedia fusion methods.