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Nota di contenuto	-- Quality Assessment. -- AUIQE: Attention-Based Underwater Image Quality Evaluator. -- I2QED: A Benchmark Database for Infrared Imaging Quality Evaluation. -- Perceptual Blind Panoramic Image Quality Assessment Based on Super-Pixel. -- Image Aesthetics Assessment Based on Visual Perception and Textual Semantic

Understanding. -- An Omnidirectional Videos Quality Assessment Method Using Salient Object Information. -- A No-Reference Stereoscopic Image Quality Assessment Based on Cartoon Texture Decomposition and Human Visual System. -- Decoding the Flow Experience in Video Games: An Analysis of Physiological and Performance Metrics. -- Source Coding. -- ULIC: Ultra Lightweight Image Coder on Wearable Devices. -- Temporal Dependency-Oriented Deep In-Loop Filter for VVC. -- Resolution-Agnostic Neural Compression for High-Fidelity Portrait Video Conferencing via Implicit Radiance Fields. -- Fast QTMT Decision for H.266/VVC via Jointly Leveraging Neural Network and Machine Learning Models. -- End-to-End Image Compression Through Machine Semantics. -- Application of AI. -- PM2.5 Concentration Measurement Based on Natural Scene Statistics and Progressive Learning. -- Human-Centered Financial Signal Processing: A Case Study on Stock Chart Analysis. -- Unsupervised Event-to-Image Reconstruction Based on Domain Adaptation. -- Adjusting Exploitation and Exploration Rates of Differential Evolution: A Novel Mutation Strategy. -- Revealing Real Face for Generalized Anti-Spoofing. -- Study on Sound Insulation Performance of Membrane-Type Acoustic Metamaterials with Pendulum Arm. -- An Anomaly Detection Framework for Propagation Networks Leveraging Deep Learning. -- MABC-Net: Multimodal Mixed Attentional Network with Balanced Class for Temporal Forgery Localization. -- Exploiting Diffusion Model as Prompt Generator for Object Localization. -- Depression Recognition Based on Pre-Trained ResNet-18 Model and Brain Effective Connectivity Network. -- ChatASD: LLM-Based AI Therapist for ASD. -- Billiards Hitting Assistance System. -- Visual Detection System for Industrial Defects. -- A Multimodal Registration and Fusion Diagnostic System Based on Multi-Scale Feature. -- CCDaS: A Benchmark Dataset for Cartoon Character Detection in Application Scenarios. -- Driving Dynamics: An In-depth Analysis of Attention Allocation Between Driver and Co-Driver in a Simulated Environment.

Sommario/riassunto

This book constitutes the refereed proceedings of the 20th International Forum on Digital Multimedia Communication, IFTC 2023, held in Beijing, China, December 21–22, 2023. The 57 full papers included in this book were carefully reviewed and selected from 150 submissions. They were organized in topical sections as follows: CCIS 2066: Image Processing, Media Computing, Metaverse and Virtual Reality, and Multimedia Communication. CCIS 2067: Quality Assessment, Source Coding, and Application of AI.