1. Record Nr. UNINA9910984580603321

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Titolo	Advances in Computer Graphics : 41st Computer Graphics International Conference, CGI 2024, Geneva, Switzerland, July 1–5, 2024, Proceedings, Part I / / edited by Nadia Magnenat-Thalmann, Jinman Kim, Bin Sheng, Zhigang Deng, Daniel Thalmann, Ping Li
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031818066 3031818067
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (549 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15338
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Disciplina	005.3
Soggetti	Application software Computer systems Computer networks Data structures (Computer science) Information theory Coding theory Computer science Computer and Information Systems Applications Computer System Implementation Computer Communication Networks Data Structures and Information Theory Coding and Information Theory Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Colors, Painting and Layout -- Blue Light Digital Filter with Accurate Color Representation, Contrast and Quality -- RRM: Relightable Assets

using Radiance Guided Material Extraction -- DesignGAN: Generation of Hand-drawn Garment Sketches -- SCD: Statistical Color Distribution-based Objective Image Colorization Quality Assessment -- Detection and Recognition -- FMA-YOLO: An Algorithm for Detecting Vehicles and Pedestrians in Infrared Road Scenarios -- Automated Recognition of Gait Emotions -- Temporal Fusion Network for Continuous Sign Language Recognition -- SCB-LEDN: Lightweight and Efficient Object Detection Network for Student Classroom Behavior -- TunSLR-25: A New Static Tunisian Sign Language Recognition System -- YOLOv8-MGH: Dense Crowd Object Detection -- 3D Face Recognition with Contrastive Learning Network on Low-quality Data.-Image Analysis and Processing -- MambaDW: Semantic-Aware Mamba for Document Watermark Removal -- LSBNet: Lightweight Symmetrically Balanced Network for Real-time Semantic Segmentation -- Semantic Cross-Self-Reconstruction with Graph Convolutional Network for Zero-Shot Cross-Modal Retrieval -- BISRM: Geotechnical Borehole Image Super-resolution Method based on Conditional Diffusion Model -- Spectral Transforms for Caustic Denoising: A Comparative Analysis for Monte Carlo Rendering -- SCAR-UNet: An Improved Res-UNet with Channel and Spatial Attention for Coal Maceral Image Segmentation -- Image Restoration and Enhancement -- Multiple Weather Images Restoration using the Task Transformer and Adaptive Mixup Strategy -- Retinex-based Low-light Mural Image Enhancement with Color Correction -- ED-Net: Unified Enhancement-Denoising Deep Convolutional Network for Low-Light Mining Images -- Introducing Radex: Adaptive Parameterized Feature Extraction from Medical Images.-Visual Analytics and Modeling -- GSMC: A Global-local Scalable Multi-task Contrastive Learning Framework -- Web3D-Based Lightweight Simulation for Mass Evacuation at Transportation Hubs.-Decoupled Estimation of Human Pose and Shape for ICH Performance Video Based on L-C-HRNet -- DS-Seq: Deriving Smooth 3D Human Motion Sequences from Video Time Cues -- Construction and Visual Validation of Low-carbon Development Evaluation System for Urban Agglomerations -- Enhanced Plant Phenotyping Through Spatio-Temporal Point Cloud Registration -- DM-Vis: A Graph-based Data Reconnaissance System for Multi-domain Urban Data.

Sommario/riassunto

The three-volume set LNCS 15338, 15339 and 15340 constitutes the refereed proceedings from the 41st Computer Graphics International Conference, CGI 2024, held during July 1–5, 2024, in Geneva, Switzerland. The 84 full papers presented in these proceedings were carefully reviewed and selected from 211 submissions. The papers are organized in the following topical sections: Part I: Colors, painting and layout; detection and recognition; image analysis and processing; image restoration and enhancement; and visual analytics and modeling. Part II: Graphics and VR/AR; reconstruction; rendering and animation; and theoretical analysis. Part III: Image analysis and visualization; image attention and perception; medical imaging and robotics; synthesis and generation; and empowering novel geometric algebra for graphics & engineering workshop.