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Soggetti	Image processing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Image Processing and Enhancement Techniques -- Single Image Super-resolution Based on Generative Adversarial Networks -- A Striping Removal Method Based on Spectral Correlation in MODIS Data -- Multi-Modal 3-D Medical Image Fusion Based on Tensor Robust Principal Component Analysis -- Accurate Estimation of Motion Blur Kernel based on Genetic Algorithm -- Biometric Identification Techniques -- Graph Embedding Discriminant Analysis and Semi-supervised Extension for Face Recognition -- Fast and Accurate Face Alignment Algorithm Based on Deep Knowledge Distillation -- Machine Vision and 3D Reconstruction -- 3D Human Reconstruction from a Single Image -- Image/Video Big Data Analysis and Understanding -- Abnormal Crowd Behavior Detection based on Movement Trajectory -- Full Convolutional Color Constancy with Attention -- Simplifying Sketches with Conditional GAN -- Improved Method of Target Tracking Based on SiamRPN -- An Improved Target Tracking Method Based on DIMP -- Infrared Small Target Recognition with Improved Particle Filtering Based on Feature Fusion -- Target Recognition Framework and Learning Mode based on Parallel Images -- Crowd Anomaly Scattering Detection based on Motion.rar -- Computer Graphics -- View Consistent 3D Face Reconstruction Using Siamese Encoder-Decoders -- An Angle-based Smoothing Method for Triangular and Tetrahedral Meshes -- Virtual

Reality and Human-Computer Interaction -- Rendering Method for Light-field Near-eye Displays Based on Micro-structures with Arbitrary Distribution -- AUIF: an Adaptive User Interface Framework for Multiple Devices -- Applications of Image and Graphics -- Control and On-board Calibration Method for In-situ Detection Using the Visible and Near-Infrared Imaging Spectrometer on the Yutu-2 Rover -- Deep Attention Network for Remote Sensing Scene Classification -- Thin Cloud Removal Using Cirrus Spectral Property for Remote Sensing Images -- A Multi-line Image Difference Technique to Background Suppression Based on Geometric Jitter Correction -- Other Research Works and Surveys Related to the Applications of Image and Graphics Technology -- Image Recognition Method of Defective Button Battery Base on Improved MobileNetV1.

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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 15th Conference on Image and Graphics Technologies and Applications, IGTA 2020, held in Beijing, China in September, 2020.\* The 24 papers presented were carefully reviewed and selected from 115 submissions. They provide a forum for sharing progresses in the areas of image processing technology; image analysis and understanding; computer vision and pattern recognition; big data mining, computer graphics and VR, as well as image technology applications. \*The conference was held virtually due to the COVID-19 pandemic.

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