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Nota di contenuto   SAR image registration using clustering analysis and anisotropic diffusion-based SIFT -- Palmprint Recognition with Deep Convolutional Features -- sosurface Algorithm Based on Generalized Three Prism -- A Novel Classifier Using Subspace Analyse for Face Recognition -- A Variational Model based on Total Generalized Variation for Multiplicative Noise Removal -- An Improved Superpixel Method for Color Image Segmentation Based on SEEDS -- Global Perception Feedback Convolutional Neural Networks -- Single Image Defogging based on Step Estimation of Transmissivity -- The Method of Crowd Density Alarm for Video Sequence -- A novel three-dimensional asymmetric reconstruction method o plasma -- Pose Measurement of Drogue via Monocular Vision for Autonomous Aerial Refueling -- Recognition of Group Activities Based on M-DTCWT and Elliptic Mahalanobis Metrics -- U3D File Format Analyzing and 3DPDF Generating Method -- Estimating Cumulus Cloud Shape from a Single Image -- Design of a Computer-Aided-Design System for Museum Exhibition Based on Virtual Reality -- Real-time salient object detection based on fully convolutional networks -- Boosting Multi-view Convolutional Neural Networks for 3D Object Recognition via View

Saliency -- Spacecraft Component Detection in Point Clouds -- Research on 3D Modeling of Geological Interface Surface -- Image Segmentation via the Continuous Max-Flow Method Based on Chan-Vese Model -- Deep-Stacked Auto Encoder for Liver Segmentation -- A Flattened Maximally Stable Extremal Region Method for Scene Text Detection -- A Combinational De-noising Algorithm for Low-Dose Computed Tomography.

Sommario/riassunto	This book constitutes the refereed proceedings of the 12th Chinese Conference on Image and Graphics Technologies and Applications, IGTA 2017, held in Beijing, China June 30 – July 1, 2017. The 26 papers presented were carefully reviewed and selected from 78 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.