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Record Nr.	UNINA9910483814503321
Titolo	Intelligence Science and Big Data Engineering : 4th International Conference, IScIDE 2013, Beijing, China, July 31 -- August 2, 2013, Revised Selected Papers / / edited by Changyin Sun, Fang Fang, Zhi-Hua Zhou, Wankou Yang, Zhiyong Liu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-42057-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XX, 908 p. 404 illus.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 8261
Disciplina	006.3
Soggetti	Optical data processing
	Pattern recognition
	Computer graphics
	Artificial intelligence
	Multimedia information systems
	Data mining
	Image Processing and Computer Vision
	Pattern Recognition
	Computer Graphics
	Artificial Intelligence
	Multimedia Information Systems
	Data Mining and Knowledge Discovery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Advanced Variable Window Stereo Matching Algorithm -- Unfocused Blur Assessment of SAR -- Syntactic Sensitive Complexity for Symbol-Free Sequence -- Compression in Molecular Simulation Datasets -- Online-Learning Structural Appearance Model for Robust Visual Tracking -- Polygon-Location Method Based on Uyghur Text Regional Rules -- Study on the Electromagnetic Performance of Hydroelectric Generator Based on Intelligent Control -- Text-Independent Phoneme Segmentation via Learning Critical Acoustic Change Points --

Robustness Analysis of Z-type ZLE Solving -- Orthogonal Waveform Design Based on the Modified Chaos Genetic Algorithm for MIMO Radar -- Automatic Object Tracking in Aerial Videos via Spatial-temporal Feature Clustering -- A Neural Network for Parameter Estimation of the Exponentially Damped Sinusoids -- Local-Global Joint Decision Based Clustering for Airport Recognition -- Spatio-temporal Features for Efficient Video Copy Detection -- Improve Scene Classification by Using Feature and Kernel Combination -- Horror Text Recognition Based on Generalized Expectation Criteria -- A Representative-Sequence Based Near-Duplicate Video Detection Method -- Non-negative Sparse Coding Using Independent Multi-Codebooks for Near-Duplicate Image Detection -- Machine Vision Based Automatic Micro-parts Detection System -- Segment Based Depth Extraction Approach for Monocular Image with Linear Perspective -- A Fuzzy Mix-Prototype Clustering Algorithm for Leukemia Data Analysis -- Blind Image Quality Assessment with Semi-supervised Learning and Fuzzy Logic -- Research on Quality Improvement of Polarization Imaging in Foggy Conditions -- Human Interaction Recognition by Spatial Structure Models -- Robust Principal Component Analysis for Recognition -- Time-Varying Distributed Resource Allocation Based on Thermal Minority Game -- Salient Object Detection via Fast Iterative Truncated Nuclear Norm Recovery -- An Efficient Resource Allocation Method for Multimedia Cloud Computing -- Research and Application of Corrosion Prediction Based on GRA-SVR -- Data Map -- Strip Flatness and Gauge Multivariable Control at Cold Tandem Mill Based on Fuzzy RBF Neural Network -- Medical Image Segmentation Based on FCM and Wavelets -- Image Segmentation Based on NSCT and BF-PSO Algorithm -- Non-linear Feature Fusion Based on Polynomial Correlation Filter for Face Recognition -- Automated Tongue Segmentation Based on 2D Gabor Filters and Fast Marching -- Hyperspectral Medical Images Unmixing for Cancer Screening Based on Rotational Independent Component Analysis.-Harmonious Competition Learning for Gaussian Mixtures -- Color Image Segmentation Based-on SVM Using Mixed Features and Combined Kernel -- Co-expressing Patterns of Schizophrenia Candidate Genes in Brain Regions -- Boosting Deformable Part Model by Sample Sharing and Outlier Ablation -- Multi-cue Visual Tracking Based on Sparse Representation -- Visual Saliency Detection via Homology Distribution and Color Contrast -- A Comparative Study on Selecting Acoustic Modeling Units in Deep Neural Networks Based Large Vocabulary Chinese Speech Recognition -- Multi-level Linguistic Knowledge Based Chinese Grapheme-to-Phoneme Conversion -- Blind Quality Assessment on Binary Seal Images -- Image Super-Resolution Based on Data-Driven Gaussian Process Regression -- Face Recognition Based on Non-Subsampled Contourlet Transform and Multi-order Fusion Binary Patterns -- Texture-Aware Fast Global Level Set Evolution -- A Novel Metric for Image Denoising Algorithms -- Adaptive Weight Optimization for Classification of Imbalanced Data -- Fuzzy-PI Switch Control in Intermediate Frequency Heating Process of 3PE-Coating -- An Improved Method in Change Detection of Multitemporal Remote Sensing Image -- A Probability-Based Object Tracking Method -- Pedestrian Detection Based on Incremental Learning -- Sparsity Preserving Score for Joint Feature Selection -- Methods for Photomosaic Generation Based on Different Image Similarity and Division Strategies -- A Level Set with Shape Priors Using Moment-Based Alignment and Locality Preserving Projections -- An Improved Texture Feature Extraction Method for Tyre Tread Patterns -- Multi Gesture Recognition: A Tracking Learning Detection Approach -- An Automatic MSRM Method with a Feedback Based on Shape Information for Auroral

Oval Segmentation -- An Improved ELM Algorithm Based on EM-ELM and Ridge Regression -- An Attitude Determination System of Quad-rotor Aircraft Based on Extended Kalman Filter and Data Fusion -- Connectivity of Clustered and Multi-type User CR Network: A Percolation Based Approach -- Patch-Based Tracking and Detecting for Visual Tracking -- Adaptive Regularization Parameters and Norm Selection for Sparse Gradient Based Image Restoration -- Key-Frame Selection Strategy Based on Edge Points Classification in 2D-to-3D Conversion -- Camera Localization and Pose Estimation Using an RGBD Sensor -- Sparse Brain Anatomical Network Based Classification of Schizophrenia Patients and Healthy Controls -- Sparse Learning for Face Recognition with Social Context -- Finger Vein Recognition Based on Gabor Filter -- Construction and Simulation Analysis for Stability Speed Parameter of Instantaneous Availability for One-Unit Repairable Systems -- Compressed Sensing Ensemble Classifier for Human Detection -- An Improved Particle Swarm Optimization for Complex Optimization Problems -- An Improved Method for Oriented Chamfer Matching -- Integrative Hypothesis Test and A5 Formulation: Sample Pairing Delta, Case Control Study and Boundary Based Statistics.

Sommario/riassunto	This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2013, held in Beijing, China, in July/August 2013. The 111 papers presented were carefully peer-reviewed and selected from 390 submissions. Topics covered include information theoretic and Bayesian approaches; probabilistic graphical models; pattern recognition and computer vision; signal processing and image processing; machine learning and computational intelligence; neural networks and neuro-informatics; statistical inference and uncertainty reasoning; bioinformatics and computational biology; and speech recognition and natural language processing.