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Nota di contenuto	Pattern Recognition and Machine Learning -- Spatiotemporal Stacked Sequential Learning for Pedestrian Detection -- Social Signaling Descriptor for Group Behaviour Analysis -- A New Smoothing Method for Lexicon-Based Handwritten Text Keyword Spotting -- Empirical Evaluation of Different Feature Representations for Social Circles Detection -- Source-Target-Source Classification Using Stacked Denoising Autoencoders -- On the Impact of Distance Metrics in Instance-Based Learning Algorithms -- Multi-class Boosting for

Imbalanced Data -- Computer Vision -- Object Discovery Using CNN
Features in Egocentric Videos -- Prototype Generation on Structural
Data Using Dissimilarity Space Representation: A Case of Study --
Estimation and Tracking of Partial Planar Templates to Improve VSLAM
-- Human Centered Scene Understanding Based on 3D Long-Term
Tracking Data -- Fast Head Pose Estimation for Human-Computer
Interaction -- Structured Light System Calibration for Perception in
Underwater Tanks -- Dense 3D SLAM in Dynamic Scenes Using Kinect
-- Scene Recognition Invariant to Symmetrical Reflections and
Illumination Conditions in Robotics -- System for Medical Mask
Detection in the Operating Room Through Facial Attributes -- Image
and Signal Processing -- New Method for Obtaining Optimal Polygonal
Approximations -- Noise Decomposition Using Polynomial
Approximation -- Color Correction for Image Stitching by Monotone
Cubic Spline Interpolation -- Structured Output Prediction with
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Categorization -- Escaping Path Approach with Extended
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Fragments -- A Fuzzy C-Means Algorithm for Fingerprint Segmentation
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Bayesian Shape Models -- Measuring Scene Detection Performance --
Threshold of Graph-Based Volumetric Segmentation -- Brain Neural
Data Analysis with Feature Space Defined by Descriptive Statistics --
Extremely Overlapping Vehicle Counting -- Sentence Clustering Using
Continuous Vector Space Representation -- Online Learning of
Stochastic Bi-automaton to Model Dialogues -- Single-Channel
Separation Between Stationary and Non-stationary Signals Using
Relevant Information -- Computer Vision -- A New Trajectory Based
Motion Segmentation Benchmark Dataset (UdG-MS15) -- Escritore: A
Multi-touch Desk with e-Pen Input for Capture, Management and
Multimodal Interactive Transcription of Handwritten Documents --
Person Enrollment by Face-Gait Fusion -- Homographic Class Template
for Logo Localization and Recognition -- Multimodal Object

Recognition Using Random Clustering Trees -- Videogrammetry System for Wind Turbine Vibration Monitoring -- Canonical Views for Scene Recognition in Mobile Robotics -- Crater Detection in Multi-ring Basins of Mercury -- Iterative Versus Voting Method to Reach Consensus Given Multiple Correspondences of Two Sets -- Extracting Categories by Hierarchical Clustering Using Global Relational Features -- A Calibration Algorithm for Multi-camera Visual Surveillance Systems Based on Single-View Metrology -- 3D-Guided Multiscale Sliding Window for Pedestrian Detection -- A Feature-Based Gaze Estimation Algorithm for Natural Light Scenarios -- Image and Signal Processing -- Fast Simple Linear Iterative Clustering by Early Candidate Cluster Elimination -- Pectoral Muscle Segmentation in Mammograms Based on Cartoon-Texture Decomposition -- PPG Beat Reconstruction Based on Shape Models and Probabilistic Templates for Signals Acquired with Conventional Smartphones -- Peripheral Nerves Segmentation in Ultrasound Images Using Non-linear Wavelets and Gaussian Processes -- Improving Diffusion Tensor Estimation Using Adaptive and Optimized Filtering Based on Local Similarity -- Dimension Reduction of Hyperspectral Image with Rare Event Preserving -- Applications -- Clustering of Strokes from Pen-Based Music Notation: An Experimental Study -- Image Analysis-Based Automatic Detection of Transmission Towers Using Aerial Imagery -- A Sliding Window Framework for Word Spotting Based on Word Attributes -- Combining Statistical and Semantic Knowledge for Sarcasm Detection in Online Dialogues -- Estimating Fuel Consumption from GPS Data -- A Bag-of-phonemes Model for Homeplace Classification of Mandarin Speakers -- A Gaussian Process Emulator for Estimating the Volume of Tissue Activated During Deep Brain Stimulation -- Genetic Seam Carving: A Genetic Algorithm Approach for Content-Aware Image Retargeting -- Analysis of Expressiveness of Portuguese Sign Language Speakers -- Automatic Eye Localization; Multi-block LBP vs. Pyramidal LBP Three-Levels Image Decomposition for Eye Visual Appearance Description -- Clinical Evaluation of an Automatic Method for Segmentation and Characterization of the Thoracic Aorta with and Without Aneurysm Patients -- Combined MPEG7 Color Descriptors for Image Classification: Bypassing the Training Phase -- A Multi-platform Graphical Software for Determining Reproductive Parameters in Fishes Using Histological Image Analysis.

Sommario/riassunto

This book constitutes the proceedings of the 6th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2015, held in Warsaw, Poland, in June/July 2015. The total of 53 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 90 submissions. They were organized in topical sections named: foundations of machine learning; image processing; image retrieval; image tracking; pattern recognition; data mining techniques for large scale data; fuzzy computing; rough sets; bioinformatics; and applications of artificial intelligence.