<<   Pattern recognitio>>

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This edition includes discussion of Bayesian classification, Bayesian networks, linear and nonlinear classifier design (including neural networks and support vector machines), dynamic programming and hidden Markov models for sequential data, feature generation (including wavelets, principal component analysis, independent component analysis and fractals), feature selection techniques, basic concepts from learning theory, and clustering concepts and algorithms. This book considers classical and current theory and practice, of both supervised and unsupervised pattern recognition, to build a complete background for professionals and students of engineering.

Image Analysis I Model-Based Image Segmentation Using Local Self-Adapting Separation SIMBA-Search IMages by Appearance Texture Defect Detection Using Invariant Textural FeaturesPoster Segmentation of Spontaneously Splitting Figures into Overlapping Layers Writer Adaptation for On-Line Handwriting Recognition Blood Vessel Detection in Retinal Images by Shape-Based Multi-threshold Probing Vehicle Detection in Aerial Images Using Generic Features, Grouping, and Context Reconstruction of Image Structure in Presence of Specular Reflections3D-Gathering & Visualisation Spatio-temporal Analysis of Human Faces Using Multi-resolution Subdivision Surfaces 3D Anisotropic Diffusion Filtering for Enhancing Noisy Actin Filament Fluorescence ImagesPoster Optimal Camera Orientation from Points and Straight Lines Points, Lines and Planes and Their Optimal Estimation A Probabilistic Approach to Simultaneous Segmentation, Object Recognition, 3D Localization and Tracking Using Stereo Improving the Robustness in Extracting 3D Point Landmarks Based on Deformable Models Efficient 3D Vertex Detection in Range Images Acquired with a Laser Image Processing Scale Adaptive Filtering Derived from the Laplace Equation One-Sided Stability of Medial Axis TransformPoster Robust Line Detection in Historical Church Registers Similarity Measures for Occlusion, Clutter, and Illumination Invariant Object Recognition Affine Point Pattern MatchingImage Sequence Analysis Surface Expansion from Range Data Sequences Illumination-Invariant Change Detection Using a Statistical Colinearity Criterion … …PosterClassifcationPosterActive VisionPosterImage Analysis II3D-ReconstructionPosterInteaction Viriual witfh Real WorldsPosterInvited Talk

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