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Iris Segmentation Using a Statistical Approach -- Neural Networks and Signal Processing -- Adaboost Classifier by Artificial Immune System Model -- Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems -- Designing RBFNNs Using Prototype Selection -- A Learning Social Network with Recognition of Learning Styles Using Neural Networks -- On-line Signature Verification Based on Modified Dynamic Time Warping and Wavelet Sub-band Coding -- New Dissimilarity Measures for Ultraviolet Spectra Identification -- Third Degree Volterra Kernel for Newborn Cry Estimation -- Pattern Recognition and Data Mining -- Cascading an Emerging Pattern Based Classifier -- A New Combined Filter-Wrapper Framework for Gene Subset Selection with Specialized Genetic Operators -- Hybrid Feature Selection Method for Supervised Classification Based on Laplacian Score Ranking -- Navigating K-Nearest Neighbor Graphs to Solve Nearest Neighbor Searches -- On the Design of a Hardware-Software Architecture for Acceleration of SVM's Training Phase -- A Highly Parallel Algorithm for Frequent Itemset Mining -- A Hybrid Methodology for Pattern Recognition in Signaling Cervical Cancer Pathways -- Graph Indexing and Retrieval Based on Median Graphs -- A Novel Method for Counting Models on Grid Boolean Formulas -- Natural Language and Document Processing -- Sentence to Document Level Emotion Tagging – A Coarse-Grained Study on Bengali Blogs -- Clustering Weblogs on the Basis of a Topic Detection Method -- A Naïve Bayes Approach to Cross-Lingual Word Sense Disambiguation and Lexical Substitution -- Supervised Learning for Semantic Classification of Spanish Collocations -- Recognizing Textual Entailment with Statistical Methods.