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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Feature Extraction and Classification -- Fiber Segmentation Using Constrained Clustering -- A New Multi-Task Learning Technique to Predict Classification of Leukemia and Prostate Cancer -- A Benchmark for Geometric Facial Beauty Study -- An Effective Feature Extraction Method Used in Breath Analysis -- Classification of Diabetics with Various Degrees of Autonomic Neuropathy Based on Linear and

Nonlinear Features Using Support Vector Machine -- Diabetes Identification and Classification by Means of a Breath Analysis System -- Automatic Measurement of Vertical Cup-to-Disc Ratio on Retinal Fundus Images -- Tongue Image Identification System on Congestion of Fungiform Papillae (CFP) -- Newborn Footprint Recognition Using Band-Limited Phase-Only Correlation -- Radii Solaris Extraction through Primitive Modelling -- A DIAMOND Method for Classifying Biological Data -- Tongue Image Texture Segmentation Based on Gabor Filter Plus Normalized Cut -- Chaos Synchronization Detector Combining Radial Basis Network for Estimation of Lower Limb Peripheral Vascular Occlusive Disease -- Classification of Wrist Pulse Blood Flow Signal Using Time Warp Edit Distance -- Computerized Pork Quality Evaluation System -- Abnormal Image Detection Using Texton Method in Wireless Capsule Endoscopy Videos -- Active Contour Method Combining Local Fitting Energy and Global Fitting Energy Dynamically -- Optic Disc Detection by Multi-scale Gaussian Filtering with Scale Production and a Vessels' Directional Matched Filter -- Retinal Vessel Centerline Extraction Using Multiscale Matched Filter and Sparse Representation-Based Classifier -- Pulse Waveform Classification Using ERP-Based Difference-Weighted KNN Classifier -- Health Care -- Development of a Ubiquitous Emergency Medical Service System Based on Zigbee and 3.5G Wireless Communication Technologies -- Digital Skating Board with RFID Technique for Upper Extremity Rehabilitation -- Knowledge Acquisition and Reasoning in Web Based Epidemic Analysis -- Assistive Communication Robot for Pre-operative Health Care -- Design and Implementation of a Digital Auscultation System -- The Application of Non-invasive Oxygen Saturation Sensor to Evaluate Blood Flow in Human -- Context Aware Health Monitoring System -- Novel Two-Stage Analytic Approach in Extraction of Strong Herb-Herb Interactions in TCM Clinical Treatment of Insomnia -- Medical Diagnosis -- Clinical Usage Considerations in the Development and Evaluation of a Computer Aided Diagnosis System for Acute Intracranial Hemorrhage on Brain CT -- Research on the Meridian Diagnostic System Based on the Measuring Principle of the Electrical Properties of Well, Source and Sea Acupoints -- Atrial Fibrillation Analysis Based on Blind Source Separation in 12-Lead ECG Data -- State-of-the-Art of Computer-Aided Detection/Diagnosis (CAD) -- Advances in Detecting Parkinson's Disease -- Using Formal Concept Analysis to Visualize Relationships of Syndromes in Traditional Chinese Medicine -- Wrist Pulse Diagnosis Using LDA -- Computerized Wrist Pulse Signal Diagnosis Using KPCA -- Framework of Computer-Assisted Instruction and Clinical Decision Support System for Orthodontics with Case-Based Reasoning -- Design of an Intelligent Reporting System for Cardiac Catheterization -- Presenting a Simplified Assistant Tool for Breast Cancer Diagnosis in Mammography to Radiologists -- Medical Image Processing and Registration -- Feature Based Non-rigid Registration Using Quaternion Subdivision -- A Sparse Decomposition Approach to Compressing Biomedical Signals -- A Comparative Study of Color Correction Algorithms for Tongue Image Inspection -- An Mean Shift Based Gray Level Co-occurrence Matrix for Endoscope Image Diagnosis -- A Novel Criterion for Characterizing Diffusion Anisotropy in HARDI Data Based on the MDL Technique.

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