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Soggetti	Artificial intelligence Computers Microprocessors Mathematical statistics Pattern recognition Bioinformatics Artificial Intelligence Computation by Abstract Devices Processor Architectures Probability and Statistics in Computer Science Pattern Recognition
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Eduardo R. Caianiello Lecture -- Nonparametric Hidden Markov Models: Principles and Applications to Speech Recognition -- Models -- Cooperative Games in a Stochastic Environment -- Lattice Models for Context-Driven Regularization in Motion Perception -- On the Dynamics of Scale-Free Boolean Networks -- Architectures and Algorithms -- A Deterministic Learning Approach Based on Discrepancy -- An Hybrid Neural/Genetic Approach to Continuous Multi-objective Optimization Problems -- An Algorithm to Model Paradigm Shifting in Fuzzy Clustering -- ANFIS Synthesis by Hyperplane Clustering for Time Series Prediction -- Generalized Splitting 2D Flexible Activation

Function -- Image and Signal Processing -- Face Localization with Recursive Neural Networks -- Multi-class Image Coding via EM-KLT Algorithm -- A Face Detection System Based on Color and Support Vector Machines -- A Neural Architecture for 3D Segmentation -- Automatic Polyphonic Piano Music Transcription by a Multi-classification Discriminative-Learning -- An Adaptive Learning Algorithm for ECG Noise and Baseline Drift Removal -- Towards an Automatic Lesion Segmentation Method for Dual Echo Magnetic Resonance Images Using an Ensemble of Neural Networks -- A Probabilistic Neural Networks System to Recognize 3D Face of People -- Dereverberation of Acoustic Signals by Independent Component Analysis -- Applications -- Supervised and Unsupervised Analysis Applied to Strombolian E.Q. -- Intracranial Pressure Signal Processing by Adaptive Fuzzy Network -- Soft Computing Techniques for Classification of Bronze Age Axes -- Environmental Risk and Territorial Compatibility: A Soft Computing Approach -- Neural Network Approach for Estimation and Prediction of Time to Disruption in Tokamak Reactors -- A Concurrent Neural Classifier for HTML Documents Retrieval -- Bayesian Modelling for Packet Channels -- Neural Networks for Photometric Redshifts Evaluation -- Special Session on "Bioinformatics and Statistics" Chaired by Francesco Masulli -- Prediction of Signal Peptide in Proteins with Neural Networks -- Proteomic Profiling of Inherited Breast Cancer: Identification of Molecular Targets for Early Detection, Prognosis and Treatment, and Related Bioinformatics Tools -- Browsing Large Pedigrees to Study of the Isolated Populations in the "Parco Nazionale del Cilento e Vallo di Diano" -- Monitoring of Car Driving Awareness from Biosignals -- Markov Analysis of Protein Sequence Similarities -- Divergence Projections for Variable Selection in Multi-layer Perceptron Networks -- Large Scale Prediction of Protein Interactions by a SVM-Based Method -- Gene Selection Using Random Voronoi Ensembles -- QSAR/QSPR Studies by Kernel Machines, Recursive Neural Networks and Their Integration -- An Application of Low Bias Bagged SVMs to the Classification of Heterogeneous Malignant Tissues -- Special Session on "Formats of Knowledge: words, images, narratives" Chaired by Maria Rita Ciceri -- Narrative Thought in Childhood and Adolescence Hierarchical Models of Story Composition and Interpretation -- Degrees of Similarity in Knowledge Transfer -- Formats and Languages of Knowledge: Models of Links for Learning Processes -- Pictures and Words: Analogies and Specificity in Knowledge Organization -- Emotional and Metaemotional Competence: A Developmental View.
