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Altri autori (Persone)	SchwenkerFriedhelm MarinaiSimone
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Note generali	"The second IAPR TC3 Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2006, was held at the University of Ulm (Germany)"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Unsupervised Learning -- Simple and Effective Connectionist Nonparametric Estimation of Probability Density Functions -- Comparison Between Two Spatio-Temporal Organization Maps for Speech Recognition -- Adaptive Feedback Inhibition Improves Pattern Discrimination Learning -- Semi-supervised Learning -- Supervised Batch Neural Gas -- Fuzzy Labeled Self-Organizing Map with Label- Adjusted Prototypes -- On the Effects of Constraints in Semi- supervised Hierarchical Clustering -- A Study of the Robustness of KNN

Classifiers Trained Using Soft Labels -- Supervised Learning -- An Experimental Study on Training Radial Basis Functions by Gradient Descent -- A Local Tangent Space Alignment Based Transductive Classification Algorithm -- Incremental Manifold Learning Via Tangent Space Alignment -- A Convolutional Neural Network Tolerant of Synaptic Faults for Low-Power Analog Hardware -- Ammonium Estimation in a Biological Wastewater Plant Using Feedforward Neural Networks -- Support Vector Learning -- Support Vector Regression Using Mahalanobis Kernels -- Incremental Training of Support Vector Machines Using Truncated Hypercones -- Fast Training of Linear Programming Support Vector Machines Using Decomposition Techniques -- Multiple Classifier Systems -- Multiple Classifier Systems for Embedded String Patterns -- Multiple Neural Networks for Facial Feature Localization in Orientation-Free Face Images -- Hierarchical Neural Networks Utilising Dempster-Shafer Evidence Theory -- Combining MF Networks: A Comparison Among Statistical Methods and Stacked Generalization -- Visual Object Recognition -- Object Detection and Feature Base Learning with Sparse Convolutional Neural Networks -- Visual Classification of Images by Learning Geometric Appearances Through Boosting -- An Eye Detection System Based on Neural Autoassociators -- Orientation Histograms for Face Recognition -- Data Mining in Bioinformatics -- An Empirical Comparison of Feature Reduction Methods in the Context of Microarray Data Classification -- Unsupervised Feature Selection for Biomarker Identification in Chromatography and Gene Expression Data -- Learning and Feature Selection Using the Set Covering Machine with Data-Dependent Rays on Gene Expression Profiles.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second IAPR Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2006, held in Ulm, Germany in August/September 2006. The 26 revised papers presented were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on unsupervised learning, semi-supervised learning, supervised learning, support vector learning, multiple classifier systems, visual object recognition, and data mining in bioinformatics.
