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Collana	Lecture Notes in Artificial Intelligence ; ; 7477
Disciplina	006.3
Soggetti	Artificial intelligence Pattern recognition Data mining Optical data processing User interfaces (Computer systems) Artificial Intelligence Pattern Recognition Data Mining and Knowledge Discovery Image Processing and Computer Vision User Interfaces and Human Computer Interaction Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Learning Algorithms -- How to Quantitatively Compare Data Dissimilarities for Unsupervised Machine Learning?- Kernel Robust Soft Learning Vector Quantization -- Incremental Learning by Message Passing in Hierarchical Temporal -- Representative Prototype Sets for Data Characterization and Classification -- Feature Selection by Block Addition and Block Deletion -- Gradient Algorithms for Exploration/Exploitation Trade-Offs: Global and Local Variants -- Towards a Novel Probabilistic Graphical Model of Sequential Data: Fundamental Notions and a Solution to the Problem of Parameter Learning -- Towards a Novel Probabilistic Graphical Model of

Sequential Data: A Solution to the Problem of Structure Learning and an Empirical Evaluation -- Statistical Recognition of a Set of Patterns Using Novel Probability Neural Network -- On Graph-Associated Matrices and Their Eigenvalues for Optical Character Recognition -- Classification of Segmented Objects through a Multi-net Approach -- On Instance Selection in Audio Based Emotion Recognition -- Grayscale Images and RGB Video: Compression by Morphological Neural Network -- NeuCube EvoSpike Architecture for Spatio-temporal Modelling and Pattern Recognition of Brain Signals.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th INNS IAPR TC3 GIRPR International Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2012, held in Trento, Italy, in September 2012. The 21 revised full papers presented were carefully reviewed and selected for inclusion in this volume. They cover a large range of topics in the field of neural network- and machine learning-based pattern recognition presenting and discussing the latest research, results, and ideas in these areas.
