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Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 7619
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Soggetti	Database management Application software Artificial intelligence Information storage and retrieval Algorithms Data mining Database Management Information Systems Applications (incl. Internet) Artificial Intelligence Information Storage and Retrieval Algorithm Analysis and Problem Complexity Data Mining and Knowledge Discovery
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Nota di contenuto	Intelligent Data Analysis of Human Genetic Data -- Queries for Data Analysis -- Parallel Data Mining Revisited. Better, not Faster -- Weighting Features for Partition Around Medoids Using the Minkowski Metric -- On Initializations for the Minkowski Weighted K-Means -- A Skew-t-normal Multi-level Reduced-rank Functional PCA Model for the Analysis of Replicated Genomics Time Course Data -- Methodological Foundation for Sign Language 3D Motion Trajectory Analysis -- Assembly Detection in Continuous Neural Spike Train Data -- Online

Techniques for Dealing with Concept Drift in Process Mining -- An Evolutionary Based Clustering Algorithm Applied to Data Compression for Industrial Systems -- Multi-label LeGo - Enhancing Multi-label Classifiers with Local Patterns -- Discriminative Dimensionality Reduction Mappings -- Finding Interesting Contexts for Explaining Deviations in Bus Trip Duration Using Distribution Rules -- Curve Fitting for Short Time Series Data from High Throughput Experiments with Correction for Biological Variation -- MCut: A Thresholding Strategy for Multi-label Classification -- Improving Tag Recommendation Using Few Associations -- Identifying Anomalous Social Contexts from Mobile Proximity Data Using Binomial Mixture Models -- Constrained Clustering Using SAT -- Two-stage Approach for Electricity Consumption Forecasting in Public Buildings -- Online Predictive Model for Taxi Services -- Analysis of Noisy Biosignals for Musical Performance -- Information Theoretic Approach to Improve Performance of Networked Control Systems -- Learning Pattern Graphs for Multivariate Temporal Pattern Retrieval -- Batch-Incremental versus Instance-Incremental Learning in Dynamic and Evolving Data -- Applying Piecewise Approximation in Perceptron Training of Conditional Random Fields -- Patch-based Data Analysis Using Linear-Projection Diffusion -- Dictionary Construction for Patch-to-Tensor Embedding -- Where Are We Going? Predicting the Evolution of Individuals -- Use of General Purpose GPU Programming to Enhance the Classification of Leukemia Blast Cells in Blood Smear Images -- Intelligent Data Analysis by a Home-Use Human Monitoring Robot -- Sleep Musicalization: Automatic Music Composition from Sleep Measurements -- Engine Parameter Outlier Detection: Verification by Simulating PID Controllers Generated by Genetic Algorithm -- Unit Operational Pattern Analysis and Forecasting using EMD and SSA for Industrial Systems.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Intelligent Data Analysis, IDA 2012, held in Helsinki, Finland, in October 2012. The 32 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 88 submissions. All current aspects of intelligent data analysis are addressed, including intelligent support for modeling and analyzing data from complex, dynamical systems. The papers focus on novel applications of IDA techniques to, e.g., networked digital information systems; novel modes of data acquisition and the associated issues; robustness and scalability issues of intelligent data analysis techniques; and visualization and dissemination results.
