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Nota di contenuto	Improvements over adaptive local hyperplane to achieve better classification / Hongmin Cai -- Prognostic models based on linear

separability / Leon Bobrowski -- One class classification for anomaly detection : support vector data description revisited / Eric J. Pauwels and Onkar Ambekar -- How to interpret decision trees? / Petra Perner -- Comparing classifiers and meta-classifiers / Elio Lozano and Edgar Acuna -- Fast data acquisition in cost-sensitive learning / Victor S. Sheng -- Applications of a unified medical data miner (UMDM) for prediction, classification, interpretation and visualization on medical datasets : the diabetes dataset case / Nawaz Mohamudally and Dost Muhammad Khan -- Melanoma diagnosis and classification web center system : the non-invasive diagnosis support subsystem / Wiesaw Paja and Mariusz Wrzesien -- Characterizing cell types through differentially expressed gene clusters using a model-based approach / Juliane Perner and Elena Zotenko -- Experiments with hybridization and optimization of the rules knowledge base for classification of MMPI profiles / Jerzy Gomua ... (et al.) -- Unsupervised classification of hyperspectral images on spherical manifolds / Dalton Lunga and Okan Ersoy -- Recognition of porosity in wood microscopic anatomical images / Shen Pan and Mineichi Kudo -- Exploratory hierarchical clustering for management zone delineation in precision agriculture / Georg Russ and Rudolf Kruse -- High classification rates for continuous cow activity recognition using low-cost GPS positioning sensors and standard machine learning techniques / Torben Godsk and Mikkel Baun Kjaergaard -- Mining pixel evolutions in satellite image time series for agricultural monitoring / Andreea Julea ... (et al.) -- Robust, non-redundant feature selection for yield analysis in semiconductor manufacturing / Eric St. Pierre and Eugen Tuv -- Integrated use of ICA and ANN to recognize the mixture control chart patterns in a process / Yuehjen E. Shao, Yini Lin, and Ya-Chi Chan -- Optimized fuzzy decision tree data mining for engineering applications / Liam Evans and Niels Lohse -- Graph-based data warehousing using the core-facets model / Dung N. Lam, Alexander Y. Liu, and Cheryl E. Martin -- General sales forecast models for automobile markets based on time series analysis and data mining techniques / Marco Hulsmann ... (et al.) -- Towards a spatial instance learning method for deep web pages / Ermelinda Oro and Massimo Ruffolo -- Applying user signatures on fraud detection in telecommunications networks / Joao Lopes, Orlando Belo, and Carlos Vieira -- Methods in case-based classification in bioinformatics : lessons learned / Isabelle Bichindaritz -- Prediction of batch-end quality for an industrial polymerization process / Geert Gins ... (et al.).

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th Industrial Conference on Data Mining, ICDM 2011, held in New York, USA in September 2011. The 22 revised full papers presented were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections on data mining in medicine and agriculture, data mining in marketing, data mining for Industrial processes and in telecommunication, Multimedia Data Mining, theoretical aspects of data mining, Data Warehousing, WebMining and Information Mining.
