Advances in knowledge discovery and management.

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Monografía

This book is a collection of representative and novel works done in Data Mining, Knowledge Discovery, Clustering and Classification that were originally presented in French at the EGC'2012 Conference held in Bordeaux, France, on January 2012. This conference was the 12th edition of this event, which takes place each year and which is now successful and well-known in the French-speaking community. This community was structured in 2003 by the foundation of the French-speaking EGC society (EGC in French stands for "Extraction et Gestion des Connaissances" and means "Knowledge Discovery and Management", or KDM). This book is intended to be read by all researchers interested in these fields, including PhD or MSc students, and researchers from public or private laboratories. It concerns both theoretical and practical aspects of KDM. The book is structured in two parts called "Knowledge Discovery and Data Mining" and "Classification and Feature Extraction or Selection". The first part (6 chapters) deals with data clustering and data mining. The three remaining chapters of the second part are related to classification and feature extraction or feature selection

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Bibliografía: Includes bibliographical references (pages 218-220) and author index

Contenido: Part I:) Knowledge Discovery and Data Mining -- Optimizing a Hierarchical Community Structure of a Complex Network François Queyroi. -- Nonparametric Hierarchical Clustering of Functional Data Marc Boullé, Romain Guigourès and Fabrice Rossi. -- Multi-view Clustering on Relational Data Francisco de A.T. de Carvalho, Yves Lechevallier, Thierry Despeyroux and Filipe M. de Melo. -- Relaxing Time Granularity for Mining Frequent Sequences Asma Ben Zakour, Sofian Maabout, Mohamed Mosbah and Marc Sistiaga. -- Semantic Event Extraction from Biological Texts Using a Kernel-Based Method Rim Faiz, Maha Amami and Aymen Elkhlifi. -- Supervised Pre-processing of Numerical Variables for Multi-Relational Data Mining Dhafer Lahbib, Marc Boullé and Dominique Laurent -- Part II:) Classification and Feature Extraction or Selection -- Combination of Single Feature Classifiers for Fast Feature Selection Hassan Chouaib, Florence Cloppet and Nicole Vincent. -- Classification of EEG Signals by an Evolutionary Algorithm Laurent Vézard, Pierrick Legrand, Marie Chavent and Frédérique Faïta-Aïnseba. -- Large Scale Image Classification: Fast Feature Extraction, Multi-codebook Approach and Multi-core SVM Training Thanh-Nghi Doan and François Poulet

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