

Pattern Recognition Algorithms for Data Mining



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(Kareem Johnston)

PATTERN RECOGNITION ALGORITHMS FOR DATA MINING

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CRC Press/Ane Books, 2004. Hardcover. Book Condition: New. Pattern Recognition Algorithms for Data Mining addresses different pattern recognition (PR) tasks in a unified framework with both theoretical and experimental results. Tasks covered include data condensation, feature selection, case generation, clustering/classification, and rule generation and evaluation. This volume presents various theories, methodologies, and algorithms, using both classical approaches and hybrid paradigms. The authors emphasize large datasets with overlapping, intractable, or nonlinear boundary classes, and datasets that demonstrate granular computing in soft frameworks. Organized into eight chapters, the book begins with an introduction to PR, data mining, and knowledge discovery concepts. The authors analyze the tasks of multi-scale data condensation and dimensionality reduction, then explore the problem of learning with support vector machine (SVM). They conclude by highlighting the significance of granular computing for different mining tasks in a soft paradigm.

INTRODUCTION Introduction Pattern Recognition in Brief Knowledge Discovery in Databases (KDD) Data Mining Different Perspectives of Data Mining Scaling Pattern Recognition Algorithms to Large Data Sets Significance of Soft Computing in KDD Scope of the Book

MULTISCALE DATA CONDENSATION Introduction Data Condensation Algorithms Multiscale Representation of Data Nearest Neighbor Density Estimate Multiscale Data Condensation Algorithm Experimental Results and Comparisons Summary

UNSUPERVISED FEATURE SELECTION Introduction Feature Extraction Feature Selection Feature Selection Using Feature Similarity (FSFS) Feature Evaluation Indices Experimental Results and Comparisons Summary

ACTIVE LEARNING USING SUPPORT VECTOR MACHINE Introduction Support Vector Machine Incremental Support Vector Learning with Multiple Points Statistical Query Model of Learning Learning Support Vectors with Statistical Queries Experimental Results and Comparison Summary

ROUGH-FUZZY CASE GENERATION Introduction Soft Granular Computing Rough Sets Linguistic Representation of Patterns and Fuzzy Granulation Rough-fuzzy Case Generation Methodology Experimental Results and Comparison Summary

ROUGH-FUZZY CLUSTERING Introduction Clustering Methodologies Algorithms for Clustering Large Data Sets CEMMiSTRI: Clustering using EM, Minimal Spanning Tree and Rough-fuzzy Initialization...

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