Table of Contents

Mining Rich (Relational) Datasets	
Learning with Configurable Operators and RL-Based Heuristics Fernando Martínez-Plumed, Cèsar Ferri, José Hernández-Orallo, and María José Ramírez-Quintana	1
Reducing Examples in Relational Learning with Bounded-Treewidth Hypotheses	17
Mining Complex Patterns from Miscellaneous Data	
Mining Complex Event Patterns in Computer Networks Dietmar Seipel, Philipp Neubeck, Stefan Köhler, and Martin Atzmueller	33
Learning in the Presence of Large Fluctuations: A Study of Aggregation and Correlation	49
Machine Learning as an Objective Approach to Understanding Music Claire Q and $Ross\ D$. $King$	64
Pair-Based Object-Driven Action Rules	79
Mining Complex Patterns from Trajectory and Sequence Data	
Effectively Grouping Trajectory Streams	94
Healthcare Trajectory Mining by Combining Multidimensional Component and Itemsets	109
Graph-Based Approaches to Clustering Network-Constrained Trajectory Data	124



Mining Complex Patterns from Graphs and Networks	
Finding the Most Descriptive Substructures in Graphs with Discrete and Numeric Labels	138
Learning in Probabilistic Graphs Exploiting Language-Constrained Patterns	155
Improving Robustness and Flexibility of Concept Taxonomy Learning from Text	170
Discovering Evolution Chains in Dynamic Networks	185
Supporting Information Spread in a Social Internetworking Scenario Francesco Buccafurri, Gianluca Lax, Antonino Nocera, and Domenico Ursino	200
Context-Aware Predictions on Business Processes: An Ensemble-Based Solution	215
Author Index	231