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Tagging with Small Training Corpora -- A Search Engine for Morphologically Complex Languages -- Errors Detection and Correction in Large Scale Data Collecting -- A New Framework to Assess Association Rules -- Communities of Interest -- An Evaluation of Grading Classifiers -- Finding Informative Rules in Interval Sequences -- Correlation-Based and Contextual Merit-Based Ensemble Feature Selection -- Nonmetric Multidimensional Scaling with Neural Networks -- Functional Trees for Regression -- Data Mining with Products of Trees -- S 3Bagging: Fast Classifier Induction Method with Subsampling and Bagging -- RNA-Sequence-Structure Properties and Selenocysteine Insertion -- An Algorithm for Segmenting Categorical Time Series into Meaningful Episodes -- An Empirical Comparison of Pruning Methods for Ensemble Classifiers -- A framework for Modelling Short, High-Dimensional Multivariate Time Series: Preliminary Results in Virus Gene Expression Data Analysis -- Using Multiattribute Prediction Suffix Graphs for Spanish Part-of-Speech Tagging -- Self-Supervised Chinese Word Segmentation -- Analyzing Data Clusters: A Rough Sets Approach to Extract Cluster-Defining Symbolic Rules -- Finding Polynomials to Fit Multivariate Data Having Numeric and Nominal Variables -- Fluent Learning: Elucidating the Structure of Episodes -- An Intelligent Decision Support Model for Aviation Weather Forcasting -- MAMBO: Discovering Association Rules Based on Conditional Independencies -- Model Building for Random Fields -- Active Hidden Markov Models for Information Extraction -- Adaptive Lightweight Text Filtering -- General Algorithm for Approximate Inference in Multiply Sectioned Bayesian Networks -- Investigating Temporal Patterns of Fault Behaviour Within Large Telephony Networks -- Closed Set Based Discovery of Representative Association Rules -- Intelligent Sensor Analysis and Actuator Control -- Sampling of Highly Correlated Data for Polynomial Regression and Model Discovery -- The IDA’01 Robot Data Challenge -- The IDA’01 Robot Data Challenge.