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Collana	Lecture Notes in Artificial Intelligence ; ; 4994
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Soggetti	Artificial intelligence User interfaces (Computer systems) Computer engineering Data mining Application software Database management Artificial Intelligence User Interfaces and Human Computer Interaction Computer Engineering Data Mining and Knowledge Discovery Information Systems Applications (incl. Internet) Database Management
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Invited Papers -- From Goals to High-Variability Software Design -- Exploring the Power of Heuristics and Links in Multi-relational Data Mining -- Intelligent Software Engineering Tools for NASA's Crew Exploration Vehicle -- Knowledge Discovery and Data Mining - Foundations -- Boosting Support Vector Machines for Imbalanced Data Sets -- Class-Oriented Reduction of Decision Tree Complexity -- Evaluating Decision Trees Grown with Asymmetric Entropies -- Stepwise Induction of Logistic Model Trees -- Stochastic

Propositionalization for Efficient Multi-relational Learning -- Analyzing Behavior of Objective Rule Evaluation Indices Based on Pearson Product-Moment Correlation Coefficient -- Knowledge Discovery and Data Mining - Advances -- Obtaining Low-Arity Discretizations from Online Data Streams -- Maps Ensemble for Semi-Supervised Learning of Large High Dimensional Datasets -- Mining Induced and Embedded Subtrees in Ordered, Unordered, and Partially-Ordered Trees -- A Structure-Based Clustering on LDAP Directory Information -- iZi: A New Toolkit for Pattern Mining Problems -- A Multi-relational Hierarchical Clustering Method for Datalog Knowledge Bases -- LAREDAM – Considerations on System of Local Analytical Reports from Data Mining -- Outlier Detection Techniques for Process Mining Applications -- Knowledge Discovery and Data Mining - Mining Changes and Actionable Patterns -- Action Rule Extraction from a Decision Table: ARED -- Discovering the Concise Set of Actionable Patterns -- Discovering Emerging Patterns for Anomaly Detection in Network Connection Data -- Temporal Extrapolation within a Static Clustering -- Discovering Explanations from Longitudinal Data -- Logic for Artificial Intelligence -- Reduced Implicate/Implicant Tries -- Golden Ratio Annealing for Satisfiability Problems Using Dynamically Cooling Schemes -- Modeling Cooperation in P2P Data Management Systems -- Interactions between Rough Parts in Object Perception -- Autonomic and Evolutionary Computation -- A Multi-objective Optimal Approach for UAV Routing in Reconnaissance Mission with Stochastic Observation Time -- Hybrid Unsupervised/Supervised Virtual Reality Spaces for Visualizing Gastric and Liver Cancer Databases: An Evolutionary Computation Approach -- Self-calibrating Strategies for Evolutionary Approaches that Solve Constrained Combinatorial Problems -- Soft Computing -- Towards Fuzzy Query Answering Using Fuzzy Views – A Graded-Subsumption-Based Approach -- Term Distribution-Based Initialization of Fuzzy Text Clustering -- Cooperative Answering to Flexible Queries Via a Tolerance Relation -- Effectiveness of Fuzzy Discretization for Class Association Rule-Based Classification -- Towards a Crisp Representation of Fuzzy Description Logics under ?ukasiewicz Semantics -- Rough Set Approximations in Formal Concept Analysis and Knowledge Spaces -- An Ant Colony System Algorithm to Solve Routing Problems Applied to the Delivery of Bottled Products -- Databases and Data Warehouses -- Predicate Indexing for Incremental Multi-Query Optimization -- SQL Queries with CASE Expressions -- Top-Down Compression of Data Cubes in the Presence of Simultaneous Multiple Hierarchical Range Queries -- Degrees of Exclusivity in Disjunctive Databases -- The Ramification Problem in Temporal Databases: A Solution Implemented in SQL -- Digital Library -- Image Databases Browsing by Unsupervised Learning -- Decision Tree Induction for Identifying Trends in Line Graphs -- Automatic Handling of Digital Image Repositories: A Brief Survey -- Development of the XML Digital Library from the Parliament of Andalucía for Intelligent Structured Retrieval -- Intelligent Information Retrieval -- Evaluating Information Retrieval System Performance Based on Multi-grade Relevance -- A Dynamic Window Based Passage Extraction Algorithm for Genomics Information Retrieval -- Mining Scalar Representations in a Non-tagged Music Database -- Identification of Dominating Instrument in Mixes of Sounds of the Same Pitch -- Performance Weights for the Linear Combination Data Fusion Method in Information Retrieval -- Combining Multiple Sources of Evidence in Web Information Extraction -- Text Mining -- Autonomous News Clustering and Classification for an Intelligent Web Portal -- On Determining the Optimal Partition in Agglomerative Clustering of Documents --

Ontological Summaries through Hierarchical Clustering --
Classification of Web Services Using Tensor Space Model and Rough Ensemble Classifier -- Intelligent Information Systems -- Agent-Based Assistant for e-Negotiations -- Local Soft Belief Updating for Relational Classification -- On a Probabilistic Combination of Prediction Sources -- Effective Document-Oriented Telemetry Data Compression -- Knowledge Representation and Integration -- Improving Integration with Subjective Combining of Ontology Mappings -- Text Onto Miner – A Semi Automated Ontology Building System -- Ontology-Driven Adaptive Medical Information Collection System -- An Effective Ontology Matching Technique -- A Causal Approach for Explaining Why a Heuristic Algorithm Outperforms Another in Solving an Instance Set of the Bin Packing Problem -- Web Service and Intelligence -- A Graph b-Coloring Based Method for Composition-Oriented Web Services Classification -- OWL-S Atomic Services Composition with SWRL Rules -- A Web-Based Interface for Hiding Bayesian Network Inference -- Applications -- Extraction of Informative Genes from Integrated Microarray Data -- Using Data Mining for Dynamic Level Design in Games -- A Logic Programming Based Framework for Security Protocol Verification -- Applying Cost Sensitive Feature Selection in an Electric Database.

Sommario/riassunto

This book constitutes the refereed proceedings of the 17th International Symposium on Methodologies for Intelligent Systems, ISMIS 2008, held in Toronto, Canada, in May 2008. The 68 revised papers presented together with 3 plenary talks were carefully reviewed and selected from over 100 submissions. The papers are organized in topical sections on knowledge discovery and data mining: foundations, advances, mining changes and actional patterns; logic for artificial intelligence, autonomic and evolutionary computation, soft computing, databases and data warehouses, digital library, intelligent information retrieval, text mining, intelligent information systems, knowledge representation and integration, Web service and intelligence, as well as applications.
