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| | Livello bibliografico | Monografia |
| | Note generali | Description based upon print version of record. |
| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | Session 1. Agents -- Modeling Role-Based Agent Team -- Distributed Collaborative Filtering for Robust Recommendations Against Shilling Attacks -- Competition and Coordination in Stochastic Games -- Multiagent-Based Dynamic Deployment Planning in RTLS-Enabled Automotive Shipment Yard -- R-FRTDP: A Real-Time DP Algorithm with Tight Bounds for a Stochastic Resource Allocation Problem -- A Reorganization Strategy to Build Fault-Tolerant Multi-Agent Systems -- Session 2. Bioinformatics -- A Multi-site Subcellular Localizer for Fungal Proteins -- Selecting Genotyping Oligo Probes Via Logical Analysis of Data -- Session 3. Classification -- Learning the Semantic Meaning of a Concept from the Web -- On Combining Dissimilarity-Based Classifiers to Solve the Small Sample Size Problem for Appearance-Based Face Recognition -- A Novel Approach for Automatic Palmprint Recognition -- ICS: An Interactive Classification System -- Fast Most Similar Neighbor Classifier for Mixed Data -- Performance Measures in Classification of Human Communications -- Cost-Sensitive Decision Trees with Pre-pruning -- Probability Based Metrics for Locally Weighted Naive Bayes -- Recurrent Boosting for |

Classification of Natural and Synthetic Time-Series Data -- Pattern Classification in No-Limit Poker: A Head-Start Evolutionary Approach -- Session 4. Constraint Satisfaction -- Managing Conditional and Composite CSPs -- Multiagent Constraint Satisfaction with Multiply Sectioned Constraint Networks -- Session 5. Data Mining -- A Clustering Algorithm Based on Adaptive Subcluster Merging -- Efficient Algorithms for Video Association Mining -- Distributed Data Mining in a Ubiquitous Healthcare Framework -- Constructing a User Preference Ontology for Anti-spam Mail Systems -- Question Answering Summarization of Multiple Biomedical Documents -- A Profit-Based Business Model for Evaluating Rule Interestingness -- Session 6. Knowledge Representation and Reasoning -- Reasoning About Operations on Sets -- Analytic Results on the Hodgkin-Huxley Neural Network: Spikes Annihilation -- Improving Importance Sampling by Adaptive Split-Rejection Control in Bayesian Networks -- Adding Local Constraints to Bayesian Networks -- On the Use of Possibilistic Bases for Local Computations in Product-Based Possibilistic Networks -- Reasoning with Conditional Preferences Across Attributes -- Path Propagation for Inference in Bayesian Networks -- Problem-Solving Knowledge Mining from Users' Actions in an Intelligent Tutoring System -- Incremental Neighborhood Graphs Construction for Multidimensional Databases Indexing -- Session 7. Learning -- Learning Network Topology from Simple Sensor Data -- Reinforcement Learning in Nonstationary Environment Navigation Tasks -- On the Stability and Bias-Variance Analysis of Kernel Matrix Learning -- Session 8. Natural Language -- Query-Based Summarization of Customer Reviews -- Multi-state Directed Acyclic Graphs -- Fuzzy Clustering for Topic Analysis and Summarization of Document Collections -- Creating a Fuzzy Believer to Model Human Newspaper Readers -- Rethinking the Semantics of Complex Nominals -- A Hybrid Approach to Improving Automatic Speech Recognition Via NLP -- Session 9. Planning -- Planning in Multiagent Expedition with Collaborative Design Networks -- Hierarchical Shortest Pathfinding Applied to Route-Planning for Wheelchair Users.

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| Sommario/riassunto | This book constitutes the refereed proceedings of the 20th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2007, held in Montreal, Canada, in May 2007. The 46 revised full papers presented were carefully reviewed and selected from 260 submissions. The papers are organized in topical section on agents, bioinformatics, classification, constraint satisfaction, data mining, knowledge representation and reasoning, learning, natural language, and planning. |