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Collana	Lecture notes in artificial intelligence ; ; 5783 Lecture notes in computer science
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Soggetti	Artificial intelligence Automatic theorem proving Decision making - Data processing
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Social Choice Theory -- A Complete Conclusion-Based Procedure for Judgment Aggregation -- A Geometric Approach to Paradoxes of Majority Voting in Abstract Aggregation Theory -- Manipulating Tournaments in Cup and Round Robin Competitions -- Iterated Majority Voting -- Committee Selection with a Weight Constraint Based on Lexicographic Rankings of Individuals -- The Effects of Noise and Manipulation on the Accuracy of Collective Decision Rules -- Subset Weight Maximization with Two Competing Agents -- The Complexity of Probabilistic Lobbying -- On the Complexity of Efficiency and Envy-Freeness in Fair Division of Indivisible Goods with Additive Preferences -- On Low-Envy Truthful Allocations -- On Multi-dimensional Envy-Free Mechanisms -- Stable Rankings in Collective Decision Making with Imprecise Information -- Finding Best k Policies -- Multiple Criteria Decision Analysis -- New Hybrid Recommender Approaches: An Application to Equity Funds Selection -- A Prescriptive Approach for Eliciting Imprecise Weight Statements in an MCDA Process -- Inverse Analysis from a Condorcet Robustness Denotation of Valued Outranking Relations -- Directional Decomposition of Multiattribute

Utility Functions -- The Possible and the Necessary for Multiple Criteria
Group Decision -- Preferences in an Open World -- Extending
Argumentation to Make Good Decisions -- Building Consistent Pairwise
Comparison Matrices over Abelian Linearly Ordered Groups --
Aggregating Interval Orders by Propositional Optimization -- Circular
Representations of a Valued Preference Matrix -- Decision under
Uncertainty -- The First Belief Dominance: A New Approach in Evidence
Theory for Comparing Basic Belief Assignments -- Interpreting GUHA
Data Mining Logic in Paraconsistent Fuzzy Logic Framework -- Insuring
Risk-Averse Agents -- Adversarial Risk Analysis: Applications to Basic
Counterterrorism Models -- Game Theory without Decision-Theoretic
Paradoxes -- Ranking Methods Based on Dominance Measures
Accounting for Imprecision -- Optimisation -- Optimizing the Hurwicz
Criterion in Decision Trees with Imprecise Probabilities -- Axioms for a
Class of Algorithms of Sequential Decision Making -- Algorithmic
Aspects of Scenario-Based Multi-stage Decision Process Optimization
-- Choquet Optimization Using GAI Networks for
Multiagent/Multicriteria Decision-Making -- Compact Preference
Representation in Stable Marriage Problems -- Neuroevolutionary
Inventory Control in Multi-Echelon Systems -- Determining a Minimum
Spanning Tree with Disjunctive Constraints -- Learning -- An Inductive
Methodology for Data-Based Rules Building -- A Framework for
Designing a Fuzzy Rule-Based Classifier -- Anytime Self-play Learning
to Satisfy Functional Optimality Criteria.

Sommario/riassunto

This volume contains the papers presented at ADT 2009, the first International Conference on Algorithmic Decision Theory. The conference was held in San Servolo, a small island of the Venice lagoon, during October 20-23, 2009. The program of the conference included oral presentations, posters, invited talks, and tutorials. The conference received 65 submissions of which 39 papers were accepted (9 papers were posters). The topics of these papers range from computational social choice preference modeling, from uncertainty to preference learning, from multi-criteria decision making to game theory.
