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Nota di contenuto	Intro -- Preface -- Organization -- Abstracts of Invited Talks -- Modeling the Complex Search Space of DataPrivacy Problems -- Classifying Large Graphswith Differential Privacy -- Statistical Forecasting Using Belief Functions -- Preference Learning: Machine Learning MeetsPreference Modeling -- Game-Theoretic Approaches to DecisionMaking in Cyber-Physical Systems Security(Extended Abstract) -- Contents -- Invited Paper -- Classifying Large Graphs with Differential Privacy -- 1 Introduction -- 2 Background -- 2.1 Graph Kernels -- 2.2 Differential Privacy and Graphs -- 3 Private Kernels for

Large Graphs -- 3.1 Private Graphlet Kernels -- 3.2 Private p-random Walk Kernels -- 4 Scaling Private Graphlet Kernels -- 4.1 Differential Privacy with Sampling -- 5 Experiments -- 5.1 Datasets -- 5.2 Experimental Setup -- 5.3 Classification Results -- 5.4 Sampling the Private Graphlet Kernel -- 6 Related Work -- 7 Conclusions -- References -- Aggregation Operators and Decision Making -- Extremal Completions of Triangular Norms Known on a Subregion of the Unit Interval -- 1 Introduction -- 2 Basic Notions and Results -- 3 Extremal Extensions of t-norms Without a Non-trivial Idempotent Element in $[a, b]$ -- 3.1 Case When $a=b$ -- 3.2 Case when $a=0$ -- 3.3 Case When $b=1$ -- 3.4 Case When $0 < a < b < 1$ -- 4 Extremal Extensions of t-norms with a Non-trivial Idempotent Element in $[a, b]$ -- 5 Conclusion -- References -- The Notion of Pre-aggregation Function -- 1 Introduction -- 2 Preliminaries -- 3 Pre-aggregation Functions -- 4 A Way to Build Pre-aggregation Functions -- 5 Conclusion -- References -- Weighted Quasi-Arithmetic Mean on Two-Dimensional Regions and Their Applications -- 1 Introduction -- 2 Risk Neutral, Risk Averse and Risk Loving -- 3 Weighted Quasi-Arithmetic Means on Two-Dimensional Regions -- 4 Risk Premiums on Two-Dimensional Regions. 5 Construction of Two-Dimensional Utilities from One-Dimensional Utilities -- References -- A Comparison of the GAI Model and the Choquet Integral w.r.t. a k-ary Capacity -- 1 Introduction -- 2 Basic Definitions -- 2.1 (k-ary) Capacity and the Choquet Integral -- 2.2 GAI Model -- 3 Link Between the GAI Model and a k-ary Capacity When All Attributes Are Discrete -- 4 A Much Cheaper Description of the Monotonicity Conditions When All Attributes Are Discrete -- 4.1 Complexity of the Monotonicity Conditions -- 4.2 Representation Result of 2-additive GAI Models -- 5 Extension of k-ary Choquet Integral -- References -- Estimating Unknown Values in Reciprocal Intuitionistic Preference Relations via Asymmetric Fuzzy Preference Relations -- 1 Introduction -- 2 Preference Relations in Decision Making -- 2.1 Fuzzy Preference Relation -- 2.2 Intuitionistic Fuzzy Preference Relation -- 3 Consistency of Fuzzy Preferences -- 4 Reciprocal Intuitionistic Fuzzy Preference Relations and Asymmetric Fuzzy Preference Relations -- 5 Estimating Unknown Values in Incomplete Reciprocal Intuitionistic Fuzzy Preference Relations -- 6 Conclusion -- References -- Handling Risk Attitudes for Preference Learning and Intelligent Decision Support -- 1 Introduction -- 2 Inferring Preferences from Imprecise Data -- 3 Fuzzy-Linguistic Structures -- 4 Measuring Risk Attitudes with Fuzzy Linguistic Structures -- 5 Learning Types for Decision Support -- 6 Intelligent Decision Support -- 7 Conclusions -- References -- Representation of Ordinal Preferences over Infinite Products -- 1 Introduction -- 2 Notations and Settings -- 2.1 Definitions -- 2.2 Examples -- 2.3 Representation of a Symmetric Preference Structure -- 3 Additive Representation of Independent Symmetric Preference Structure -- 4 Step-Based Preference Structure -- 5 Concluding Remarks -- References -- Clustering and Similarity. Spherical k-Means++ Clustering -- 1 Introduction -- 2 Preparation -- 2.1 Spherical k-Means Clustering -- 3 Extension of Dissimilarity in SKM -- 4 Analysis -- 4.1 Preliminary Step -- 4.2 Main Step -- 5 Spherical k-Means++ -- 6 Conclusion -- References -- On Possibilistic Clustering Methods Based on Shannon/Tsallis-Entropy for Spherical Data and Categorical Multivariate Data -- 1 Introduction -- 2 Preliminaries -- 2.1 Notation, Fuzzyc-Means, and Its Variants -- 2.2 Possibilistic Clustering -- 2.3 Fuzzy Clustering for Spherical Data -- 2.4 Fuzzy Clustering for Categorical Multivariate Data -- 3 Proposed Method --

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Sommario/riassunto

This book constitutes the proceedings of the 12th International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2015, held in Skövde, Sweden, in September 2015. The 18 revised full papers presented were carefully reviewed and selected from 38 submissions. They discuss theory and tools for modeling decisions, as well as applications that encompass decision making processes and information fusion techniques.

2. Record Nr.	UNINA9910715256803321
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