

Advances in computational intelligence : 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, Catania, Italy, July 9-13, 2012 : proceedings, part I

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Abstrak

These four volumes (CCIS 297, 298, 299, 300) constitute the proceedings of the 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, held in Catania, Italy, in July 2012. The 258 revised full papers presented together with six invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on fuzzy machine learning and on-line modeling, computing with words and decision making, soft computing in computer vision, rough sets and complex data analysis, theory and applications, intelligent databases and information system, information fusion systems, philosophical and methodological aspects of soft computing, basic issues in rough sets, 40th anniversary of the measures of fuzziness, SPS11 uncertainty in profiling systems and applications, handling uncertainty with copulas, formal methods to deal with uncertainty of many-valued events, linguistic summarization and description of data; fuzzy implications, theory and applications, sensing and data mining for teaching and learning, theory and applications of intuitionistic fuzzy sets, approximate aspects of data mining and database analytics, fuzzy numbers and their applications, information processing and management of uncertainty in knowledge-based systems, aggregation functions, imprecise probabilities, probabilistic graphical models with imprecision, theory and applications, belief function theory, basics and/or applications, fuzzy uncertainty in economics and business, new trends in De Finetti's approach, fuzzy measures and integrals, multicriteria decision making, uncertainty in privacy and security, uncertainty in the spirit of Pietro Benvenuti, coopetition; game theory, probabilistic approach.