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Nota di contenuto	Keynote Papers -- Neuroeconomics: Yet Another Field Where Rough Sets Can Be Useful? -- Research Directions in the KES Centre -- Logical and Mathematical Foundations -- On Irreducible Descriptive Sets of Attributes for Information Systems -- Dominance-Based Rough Set Approach and Bipolar Abstract Rough Approximation Spaces -- Paraconsistent Logic Programs with Four-Valued Rough Sets -- An Equivalent Definition of Rough Sets -- A Note on Attribute Reduction in the Decision-Theoretic Rough Set Model -- An Interpretation of Belief Functions on Infinite Universes in the Theory of Rough Sets -- Some Remarks on Approximations of Arbitrary Binary Relations by Partial Orders -- On Rough Equalities and Rough Equivalences of Sets -- Data Analysis -- Statistical Independence of Multi-variables from the Viewpoint of Linear Algebra -- Rough Mereology in Classification of Data: Voting by Means of Residual Rough Inclusions -- Rough Set Approach to Information Tables with Imprecise Decisions -- Computing Approximations of Dominance-Based Rough Sets by Bit-Vector Encodings -- A Framework for Multiagent Mobile Robotics: Spatial Reasoning Based on Rough Mereology in Player/Stage System -- Natural versus Granular Computing: Classifiers from Granular Structures -- Data Mining -- Inducing Better Rule Sets by Adding Missing Attribute Values -- Rule Induction: Combining Rough Set and

Statistical Approaches -- Action Rules Discovery without Pre-existing Classification Rules -- Hierarchical Learning in Classification of Structured Objects -- A Comparison of the LERS Classification System and Rule Management in PRSM -- Similarity Relation in Classification Problems -- Probabilistic Granule Analysis -- Paraconsistent Case-Based Reasoning Applied to a Restoration of Electrical Power Substations -- Solving the Attribute Reduction Problem with Ant Colony Optimization -- Actor Critic Learning: A Near Set Approach -- Compact Rule Learner on Weighted Fuzzy Approximation Spaces for Class Imbalanced and Hybrid Data -- Feature Selection Based on the Rough Set Theory and Expectation-Maximization Clustering Algorithm -- Outlier Detection Based on Granular Computing -- Implementing a Rule Generation Method Based on Secondary Differences of Two Criteria -- Lower and Upper Approximations of Rules in Non-deterministic Information Systems -- A New Approach to Fuzzy-Rough Nearest Neighbour Classification -- Decision Support Systems -- Towards Approximation of Risk -- Business Aviation Decision-Making Using Rough Sets -- Phase Transition in SONFIS and SORST -- A New Rough Sets Decision Method Based on PCA and Ordinal Regression -- Rough Set Flow Graphs and Max???* Fuzzy Relation Equations in State Prediction Problems -- Clustering -- Precision of Rough Set Clustering -- A Dynamic Approach to Rough Clustering -- Learning Patterns from Clusters Using Reduct -- Pattern Recognition and Image Processing -- Experiments with Rough Set Approach to Face Recognition -- Standard and Fuzzy Rough Entropy Clustering Algorithms in Image Segmentation -- Efficient Mining of Jumping Emerging Patterns with Occurrence Counts for Classification -- Evolutionary Algorithm for Fingerprint Images Filtration -- Efficient Discovery of Top-K Minimal Jumping Emerging Patterns -- Hierarchical Tree for Dissemination of Polyphonic Noise -- A Data Driven Emotion Recognition Method Based on Rough Set Theory -- Learning from Soft-Computing Methods on Abnormalities in Audio Data -- Bioinformatics -- Shadowed Clustering for Speech Data and Medical Image Segmentation -- Computational Intelligence Techniques Applied to Magnetic Resonance Spectroscopy Data of Human Brain Cancers -- A Hybrid Model for Aiding in Decision Making for the Neuropsychological Diagnosis of Alzheimer's Disease -- Special Sessions -- Rough Sets in Data Warehousing -- Classification Challenges in Email Archiving -- Approximation Theories: Granular Computing vs Rough Sets.

Sommario/riassunto

This book constitutes the refereed proceedings of the 6th International Conference on Rough Sets and Current Trends in Computing, RSCTC 2008, held in Akron, OH, USA, in October 2008. The 49 revised full papers presented together with 2 keynote papers and 3 special session papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on logical and mathematical foundations, data analysis, data mining, decision support systems, clustering, pattern recognition and image processing, as well as bioinformatics. The three special session papers cover topics such as rough sets in data warehousing, classification challenges in email archiving, and approximation theories: granular computing vs. rough sets.
