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Invited Papers, IRSS President Forum -- Orthopartitions in Knowledge Representation and Machine Learning -- Rough Sets and Fuzzy Sets in Interactive Granular Computing -- MGCC: Multi-Granularity Cognitive Computing -- Three-way decision, three-world conception, and explainable AI -- Rough set theory and applications -- scikit-weak: A Python library for Weakly Supervised Machine Learning -- Applying Rough Set Theory for Digital Forensics Evidence Analysis -- Binary boundaries and power set space of graded rough sets and their correlative ECG (Electrocardiogram) data analysis -- Neighborhood Approximate Reducts-based Ensemble Learning Algorithm and Its Application in Software Defect Prediction -- Granular computing and applications -- USV Path Planning Based on Adaptive Fuzzy Reward -- A Naive Bayes Classifier Based on Neighborhood Granulation -- Matrix representations and interdependency on an L-fuzzy covering-based rough set -- Uncertainty-aware Deep Open-set Object Detection -- Classification and deep learning -- Rule Acquisition in Generalized One-sided Decision Systems -- Density peak clustering based split-and-merge -- Multi-label feature extraction with distance-based graph attention network -- Multi-scale Subgraph Contrastive Learning for Link Prediction -- Video Object Detection with MeanShift Tracking -- MP-KMeans: K-Means with Missing Pattern for Data of Missing Not at Random -- Conceptual Knowledge Discovery and Machine Learning Based on Three-way Decisions and Granular Computing -- Using User's Expression Propensity for Sarcasm Detection based on Sequential Three-way Decision -- Concept Reduction of Object-induced Three-way Concept Lattices -- An Attention-Based Token Pruning Method for Vision Transformers -- Three-way approximate criterion reduction in multi-criteria decision analysis -- Close Contact Detection in Social Networks via Possible Attribute Analysis -- Uncertainty in Three-way Decisions, Granular Computing, and Data Science -- A Probabilistic Approach to Analyzing Agent Relations in Three-Way Conflict Analysis Based on Bayesian Confirmation -- Hierarchical multi-granulation sequential three-way decisions -- KNN Ensemble Learning Integration Algorithm based on Three-way Decision -- Attribute Reduction of Crisp-Crisp Concept Lattices Based on Three-Way Decisions -- Kernelized Fuzzy Rough Sets-based Three-Way Feature Selection -- Adaptive K-means Algorithm Based on Three-Way Decision -- 3WS-ITSC: Three-Way Sampling on Imbalanced Text Data for Sentiment Classification -- Rough-Fuzzy Clustering based on Adaptive Weighted Values and Three-way Decisions.

Sommario/riassunto

This book constitutes the proceedings of the International Joint Conference on Rough Sets, IJCRS 2022, held in Suzhou, China, in November 2022. The 28 full papers included in this book were carefully reviewed and selected from 42 submissions. They were organized in topical sections as follows: Invited papers, IRSS President Forum; rough set theory and applications; granular computing and applications; classification and deep learning; conceptual knowledge discovery and machine learning based on three-way decisions and granular computing; uncertainty in three-way decisions; granular computing, and data science.