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Autore	Hu Mengjun
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Altri autori (Persone)	CornelisChris ZhangYan LingrasPawan SlezakDominik YaoJingTao
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Nota di contenuto	-- Rough Set Models and Foundations. -- Mapper-Based Rough Sets. -- On Tolerance-based Rough Set Operators and Their Covering Generalizations. -- Parametrized -Decision Valuation for Variable Precision Rough Set Model. -- Rough Algebraic Semantics of Concepts in Distributed Cognition Perspective. -- Description logic for rough concepts. -- Rule Induction and Machine Learning. -- Greedy Algorithm for Construction of Deterministic Decision Trees for Conventional Decision Tables from Closed Classes. -- Study of Dependency Degree and Bayesian Networks for Conflict Scenarios. -- Consideration of Detecting Data and Functional Dependency in Tabular

Data with Missing Values by the Obtained Rules.. -- Distance-Based Fuzzy-Rough Sets and Their Application To The Classification Problem. -- Dealing with Missing Values Meaning Unknown in Probabilistic Approximations. -- On Complexity of Deterministic and Nondeterministic Decision Trees for Decision Tables with Many-valued Decisions from Closed Classes. -- Simulating Functioning of Decision Trees for Tasks on Decision Rule Systems. -- RIONIDA: A Novel Algorithm for Imbalanced Data Combining Instance-Based Learning and Rule Induction. -- Granular Computing. -- Information System in the Light of Interactive Granular Computing. -- GBTWSVM: Granular-ball Twin Support Vector Machine. -- Fuzzy Granular-balls based Spectral Clustering. -- A Vector Is a Granule: A Novel Extension of the Variable Precision Rough Set Model. -- Rough Set Applications. -- Cross-Weighting Knowledge Distillation for Object Detection. -- A Method of Multi-USV Reward Design Using Fuzzy Control. -- Hyp-DAN: Hyperbolic Distance-aware Attention Networks. -- Optimizing Rough Set Flow Graph Inference. -- Multimodal Propaganda Detection in Memes with Tolerance-based Soft Computing Method.

Sommario/riassunto

This two-volume set LNAI 14839-14840 constitutes the refereed proceedings of the International Joint Conference on Rough Sets, IJCRS 2024, held in Halifax, NS, Canada, during May 17–20, 2024. The 43 full papers included in this book were carefully reviewed and selected from 56 submissions. They are organized in topical sections as follows: Part I: Rough Set Models and Foundations; Rule Induction and Machine Learning; Granular Computing; and Rough Set Applications. Part II: Three-Way Decision and Rough Sets; Three-Way Decision in Data Analytics; Three-Way Decision in Broad Senses; Rental Market Data Mining; and Applications of Deep Learning and Soft Computing.