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The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues, from logical and mathematical foundations, through all aspects of rough set theory and its applications, such as data mining, knowledge discovery, and intelligent information processing, to relations between rough sets and other approaches to uncertainty, vagueness, and incompleteness, such as fuzzy sets and theory of evidence. This book, which constitutes the fifth volume of the Transactions on Rough Sets series, is dedicated to the monumental life, work and creative genius of Zdzislaw Pawlak, the originator of rough sets, who passed away in April 2006. It opens with a commemorative article that gives a brief coverage of Pawlak's works in rough set theory, molecular computing, philosophy, painting and poetry. Fifteen papers explore the theory of rough sets in various domains as well as new applications of rough sets. In addition, this volume of the TRS series includes a complete monograph on rough sets and approximate Boolean reasoning systems that covers both the foundations and the applications of data mining.

Commemoration Zdzistaw Pawlak: Life and WorkRegular Papers Rough Belief Change Rough Sets and Vague Concept Approximation: From Approximation to Adaptive Learning Matching 2D hnage Segments with Genetic Algorithms and Approximation Spaces An Efficient Algorithm for Inference in Rough Set Flow Graphs Intelligent Algorithms for Movie Sound Tracks Restoration Rough Set-Based Application to Recognition of Emotionally-Charged Animated Character's Gestures Introducing a Rule hnportance Measure Variable Precision Bayesian Rough Set Model and Its Application to Kansei Engineering P300 Wave Detection Based on Rough Sets Multimodal Classification: Case Studies Arrow Decision Logic for Relational Information Systems On Generalized Rough Fuzzy Approximation Operators Rough Set Approximations in Formal Concept Analysis Motion-Information-Based Video Retrieval System Using Rough Pre-classification.Dissertations and Monographs Approximate Boolean Reasoning: Foundations and Applications in Data MiningAuthor Index

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