1. Record Nr. UNISA996465507603316

Titolo	Rough Sets and Current Trends in Computing [[electronic resource]] : Third International Conference, RSCTC 2002, Malvern, PA, USA, October 14-16, 2002. Proceedings / / edited by James J. Alpigini, James F. Peters, Andrzeij Skowron, Ning Zhong
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002
ISBN	3-540-45813-1
Edizione	[1st ed. 2002.]
Descrizione fisica	1 online resource (XVI, 644 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2475
Disciplina	004
Soggetti	Computers Software engineering Artificial intelligence Mathematical logic Pattern recognition Theory of Computation Software Engineering/Programming and Operating Systems Artificial Intelligence Mathematical Logic and Formal Languages Computation by Abstract Devices Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Keynote Papers -- In Pursuit of Patterns in Data Reasoning from Data - The Rough Set Way -- Toward a Theory of Hierarchical Definability (THD) -- Plenary Papers -- Modelling Biological Phenomena with Rough Sets -- Database Mining on Derived Attributes Granular and Rough Computing Approach -- A Proposed Evolutionary, Self-Organizing Automaton for the Control of Dynamic Systems -- Rough Set Analysis of Preference-Ordered Data -- Fuzzy Sets, Multi-valued Mappings, and Rough Sets -- Foundations and Methods I -- Investigating the Choice of l and u Values in the Extended Variable Precision Rough Sets Model

Cancer Data Mining with Ordered Information -- Web Mining -- A Granular Approach for Analyzing the Degree of Affability of a Web Site -- Comparison of Classification Methods for Customer Attrition Analysis -- User Profile Model: A View from Artificial Intelligence -- Mining the Client's Life Cycle Behaviour in the Web -- PagePrompter: An Intelligent Web Agent Created Using Data Mining Techniques -- VPRSM Approach to WEB Searching -- Applications I -- Rough Set Approach to the Survival Analysis -- The Identification of Low-Paying Workplaces: An Analysis Using the Variable Precision Rough Sets Model -- A Search for the Best Data Mining Method to Predict Melanoma -- Towards the Classification of Musical Works: A Rough Set Approach -- Segmentation of Medical Images Based on Approximations in Rough Set Theory -- Adaptive Robust Estimation for Filtering Motion Vectors -- Rough Set Feature Selection and Diagnostic Rule Generation for Industrial Applications -- Applications II -- ?-Connected Approximations for Rough Sets -- Adaptive Classifier Construction: An Approach to Handwritten Digit Recognition -- The Application of Support Diagnose in Mitochondrial Encephalomyopathies -- Obstacle Classification by a Line-Crawling Robot: A Rough Neurocomputing Approach -- Rough Neural Network for Software Change Prediction -- Handling Spatial Uncertainty in Binary Images: A Rough Set Based Approach -- Evolutionary Algorithms and Rough Sets-Based Hybrid Approach to Classificatory Decomposition of Cortical Evoked Potentials -- Rough Mereological Localization and Navigation.

Sommario/riassunto

This volume contains the papers selected for presentation at the Third Inter- tional Conference on Rough Sets and Current Trends in Computing (RSCTC 2002) held at Penn State Great Valley, Malvern, Pennsylvania, U.S.A., 14–16 October 2002. Rough set theoryand its applications constitute a branch of soft computing that has exhibited a signi?cant growth rate during recent years. RSCTC 2002 provided a forum for exchanging ideas among manyresearchers in the rough set communityand in various areas of soft computing and served as a stimulus for mutual understanding and cooperation. In recent years, there have been a number of advances in rough set theoryand applications. Hence, we have witnessed a growing number of international workshops on rough sets and their applications. In addition, it should be observed that one of the beauties of rough sets and the rough set philosophyis that it tends to complement and reinforce research in manytraditional research areas and applications. This is the main reason that manyinternational conferences are now including rough sets into the list of topics.