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The book presents high
quality papers presented

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at the International
Conference on
Computational
Intelligence in Data
Mining (ICCIDM 2016)
organized by School of
Computer Engineering,

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Kalinga Institute of
Industrial Technology
(KIIT), Bhubaneswar,
Odisha, India during
December 10 - 11, 2016.
The book disseminates
the knowledge about

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innovative, active
research directions in
the field of data
mining, machine and
computational
intelligence, along with
current issues and

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applications of related topics. The volume aims to explicate and address the difficulties and challenges that of seamless integration of the two core disciplines

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of computer science.

This volume gathers
selected, peer-reviewed
original contributions
presented at the
International Conference
on Computational Vision

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and Bio-inspired
Computing (ICCVBIC)
conference which was
held in Coimbatore,
India, on November
29-30, 2018. The works
included here offer a

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rich and diverse
sampling of recent
developments in the
fields of Computational
Vision, Fuzzy, Image
Processing and Bio-
inspired Computing. The

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topics covered include
computer vision;
cryptography and digital
privacy; machine
learning and artificial
neural networks; genetic
algorithms and

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computational intelligence; the Internet of Things; and biometric systems, to name but a few. The applications discussed range from security,

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healthcare and epidemic control to urban computing, agriculture and robotics. In this book, researchers, graduate students and professionals will find

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innovative solutions to
real-world problems in
industry and society as
a whole, together with
inspirations for further
research.

The LNCS journal

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Transactions on Rough
Sets is devoted to the
entire spectrum of rough
sets related issues,
starting from logical
and mathematical
foundations, through all

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aspects of rough set theory and its applications, such as data mining, knowledge discovery, and intelligent information processing, to relations

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between rough sets and other approaches to uncertainty, vagueness and incompleteness, such as fuzzy sets and theory of evidence. This second volume of the

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Transactions on Rough
Sets presents 17
thoroughly reviewed
revised papers devoted
to rough set theory,
fuzzy set theory; these
papers highlight

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important aspects of these theories, their interrelation and application in various fields.

The LNCS journal
Transactions on Rough

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Sets is devoted to the entire spectrum of rough sets related issues, from logical and mathematical foundations, through all aspects of rough set

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theory and its applications, such as data mining, knowledge discovery, and intelligent information processing, to relations between rough sets and

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other approaches to uncertainty, vagueness, and incompleteness, such as fuzzy sets and theory of evidence. This book, which constitutes the eighth volume of the

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Transactions on Rough
Sets series, contains a
wide spectrum of
contributions to the
theory and applications
of rough sets. The 17
papers presented explore

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several research streams
and introduce a number
of new advances in the
foundations and
applications of
artificial intelligence,
engineering, logic,

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mathematics, and
science.

Innovation and
Interdisciplinary
Solutions for
Underserved Areas
Proceedings of the

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International Conference
on Advanced Intelligent
Systems and Informatics
2016

Third International
Conference, RSKT 2008,
Chengdu, China, May

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17-19, 2008, Proceedings
Soft Computing
Applications
8th International
Conference, RSKT 2013,
Halifax, NS, Canada,
October 11-14, 2013,

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Proceedings

Rough Sets, Fuzzy Sets,
Data Mining and Granular
Computing

Intelligent Decision
Technologies 2016

This two-volume set LNAI 10313 and

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LNAI 10314 constitutes the proceedings of the International Joint Conference on Rough Sets, IJCRS 2017, held in Olsztyn, Poland, in July 2017. The 74 revised full papers presented together with 16 short papers and 16 invited talks, were carefully reviewed and selected from

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130 submissions. The papers in this two set-volume of IJCRS 2017 follow the track already rutted by RSCTC and JRS conferences which aimed at unification of many facets of rough set theory from theoretical aspects of the rough set idea bordering on theory of concepts and going through

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algebraic structures, topological structures, logics for uncertain reasoning, decision algorithms, relations to other theories of vagueness and ambiguity, then to extensions of the rough set idea like granular structures, rough mereology, and to applications of the idea in

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diverse fields of applied science including hybrid methods like rough-fuzzy, neuro-rough, neuro-rough-fuzzy computing. IJCRS 2017 encompasses topics spread among four main tracks: Rough Sets and Data Science (in relation to RSCTC series organized since 1998); Rough Sets and Granular

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Computing (in relation to RSFDGrC series organized since 1999); Rough Sets and Knowledge Technology (in relation to RSKT series organized since 2006); and Rough Sets and Intelligent Systems (in relation to RSEISP series organized since 2007). This book constitutes the refereed

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proceedings of the 7th International Conference on Rough Sets and Current Trends in Computing, RSCTC 2010, held in Warsaw, Poland, in June 2010.

This book constitutes the refereed proceedings of the First International Conference on Advanced Data Mining

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and Applications, ADMA 2005, held in Wuhan, China in July 2005. The conference was focused on sophisticated techniques and tools that can handle new fields of data mining, e.g. spatial data mining, biomedical data mining, and mining on high-speed and time-variant data

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streams; an expansion of data mining to new applications is also strived for. The 25 revised full papers and 75 revised short papers presented were carefully peer-reviewed and selected from over 600 submissions. The papers are organized in topical sections on association rules,

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classification, clustering, novel algorithms, text mining, multimedia mining, sequential data mining and time series mining, web mining, biomedical mining, advanced applications, security and privacy issues, spatial data mining, and streaming data mining.

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This volume contains the papers selected for presentation at the 9th International Conference on Rough Sets, Fuzzy Sets, Data Mining and Granular Computing (RSFDGrC 2003) held at Chongqing University of Posts and Telecommunications, Chongqing, P.R. China, May 26–29, 2003. There

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were 245 submissions for RSFDGrC 2003 excluding for 2 invited keynote papers and 11 invited plenary papers. Apart from the 13 invited papers, 114 papers were accepted for RSFDGrC 2003 and were included in this volume. The acceptance rate was only 46.5%. These papers were divided into

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39 regular oral presentation papers (each allotted 8 pages), 47 short oral presentation papers (each allotted 4 pages) and 28 poster presentation papers (each allotted 4 pages) on the basis of reviewer evaluations. Each paper was reviewed by three referees. The conference is a continuation and

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expansion of the International Workshops on Rough Set Theory and Applications. In particular, this was the ninth meeting in the series and the first international conference. The aim of RSFDGrC2003 was to bring together researchers from diverse fields of expertise in order to facilitate

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mutual understanding and cooperation and to help in cooperative work aimed at new hybrid paradigms. It is our great pleasure to dedicate this volume to Prof. Zdzislaw Pawlak, who first introduced the basic ideas and definitions of rough sets theory over 20 years ago.

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Innovations in Bio-inspired Computing
and Applications

4th International Conference, RSKT

2009, Gold Coast, Australia, July

14-16, 2009, Proceedings

Computational Intelligence in Data
Mining

International Joint Conference, IJCRS

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2016, Santiago de Chile, Chile,
October 7–11, 2016, Proceedings
Proceedings of the International
Conference on CIDM, 10-11
December 2016

Proceedings of the 8th KES
International Conference on
Intelligent Decision Technologies (KES-

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IDT 2016) – Part II

Rough Sets and Current Trends in
Computing

***Rough Sets, Fuzzy Sets,
Data Mining, and
Granular Computing***
***15th
International Conference,***

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***RSFDGrC 2015, Tianjin,
China, November 20-23,
2015,***

Proceedings Springer

***This book constitutes the
refereed proceedings of
the International Joint***

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***Conference on Rough
Sets, IJCRS 2016, held in
Santiago de Chile, Chile,
in October 2016. The 46
revised full papers
presented together with 7
keynotes, tutorials and***

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***expert papers were
carefully reviewed and
selected from 108
submissions. The papers
are grouped in topical
sections on Rough Sets,
Approximation and***

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***Granulation; Rough Sets,
Non-Determinism and
Incompleteness; Rough
Sets and Three-way
Decisions; Fuzziness and
Similarity in Knowledge
Representation; Machine***

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***Learning and Decision
Making; Ranking and
Clustering; Derivation
and Application of Rules
and Trees; Derivation and
Application of Feature
Subsets.***

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***This book constitutes the
refereed proceedings of
the 5th International
Conference on Rough
Sets and Current Trends
in Computing, RSCTC
2006, held in Kobe, Japan***

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***in November 2006. The
91 revised full papers
presented together with
five invited papers and
two commemorative
papers were carefully
reviewed and selected***

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from 332 submissions.

***This book constitutes the
refereed proceedings of
the Third International
Conference on Rough
Sets and Knowledge
Technology, RSKT 2008,***

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***held in Chengdu, China,
in May 2008. The 91
revised full papers papers
presented together with 3
keynote papers and 6
tutorial papers were
carefully reviewed and***

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***selected from 184
submissions. They all
focus on five major
research fields:
computing theory and
paradigms, knowledge
technology, intelligent***

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***information processing,
intelligent control, and
applications. The papers
are organized in topical
sections on rough and
soft computing, rough
mereology with***

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***applications, dominance-
based rough set
approach, fuzzy-rough
hybridization, granular
computing, logical and
mathematical
foundations, formal***

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***concept analysis, data
mining, machine
learning, intelligent
information processing,
bioinformatics and
cognitive informatics,
web intelligence, pattern***

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***recognition, and real-life
applications of knowledge
technology.***

Volume 2

6th International

Conference, RSKT 2011,

Banff, Canada, October

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***9-12, 2011, Proceedings
Intelligent and Cloud
Computing
Rough Sets and
Intelligent Systems -
Professor Zdzisław
Pawlak in Memoriam***

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***23rd International
Conference on
Conceptual Modeling,
Shanghai, China,
November 8-12, 2004.
Proceedings***

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***Third International
Conference, RSCTC 2002,
Malvern, PA, USA,
October 14-16, 2002.
Proceedings***

This book constitutes the refereed
proceedings of the International

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Conference on Rough Sets and Emerging Intelligent Systems Paradigms, held in Warsaw, Poland in June 2007. The conference was dedicated to the memory of Professor Zdzislaw Pawlak. Seventy-three full papers are presented, together with two keynote lectures and eleven invited papers. Each of these papers was

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subject to a strict editorial review.

Discusses a broad scope of subject matters including multimedia systems in their widest sense, web systems and network technologies. This monograph also includes texts which deals with traditional information systems that draw on the experience of the multimedia and network

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The Springer Handbook for Computational Intelligence is the first book covering the basics, the state-of-the-art and important applications of the dynamic and rapidly expanding discipline of computational intelligence. This comprehensive handbook makes readers

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familiar with a broad spectrum of approaches to solve various problems in science and technology. Possible approaches include, for example, those being inspired by biology, living organisms and animate systems. Content is organized in seven parts: foundations; fuzzy logic; rough sets; evolutionary

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computation; neural networks; swarm intelligence and hybrid computational intelligence systems. Each Part is supervised by its own Part Editor(s) so that high-quality content as well as completeness are assured.

Militarized Conflict Modeling Using Computational Intelligence examines the

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application of computational intelligence methods to model conflict. Traditionally, conflict has been modeled using game theory. The inherent limitation of game theory when dealing with more than three players in a game is the main motivation for the application of computational intelligence in modeling conflict.

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Militarized interstate disputes (MIDs) are defined as a set of interactions between, or among, states that can result in the display, threat or actual use of military force in an explicit way. These interactions can result in either peace or conflict. This book models the relationship between key variables and the risk of conflict between

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two countries. The variables include Allies which measures the presence or absence of military alliance, Contiguity which measures whether the countries share a common boundary or not and Major Power which measures whether either or both states are a major power. Militarized

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Intelligence implements various multi-layer perception neural networks, Bayesian networks, support vector machines, neuro-fuzzy models, rough sets models, neuro-rough sets models and optimized rough sets models to create models that estimate the risk of conflict given the variables. Secondly, these

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models are used to study the sensitivity of each variable to conflict. Furthermore, a framework on how these models can be used to control the possibility of peace is proposed. Finally, new and emerging topics on modelling conflict are identified and further work is proposed.

International Joint Conference, IJCRS

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2017, Olsztyn, Poland, July 3–7, 2017,
Proceedings, Part I

Transactions on Rough Sets VIII

First International Conference, InterSol
2017 and Sixth Collogue National sur la
Recherche en Informatique et ses

Applications, CNRIA 2017, Dakar,
Senegal, April 11–12, 2017, Proceedings

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International Conference, RSEISP 2007,
Warsaw, Poland, June 28-30, 2007,
Proceedings

Rough Sets and Intelligent Systems
Paradigms

Rough Sets

Advanced Data Mining and Applications

This book gathers the

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proceedings of the 2nd
International Conference on
Advanced Intelligent Systems
and Informatics (AISI2016),
which took place in Cairo, Egypt
during October 24-26, 2016.
This international

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interdisciplinary conference, which highlighted essential research and developments in the field of informatics and intelligent systems, was organized by the Scientific Research Group in Egypt (SRGE)

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and sponsored by the IEEE Computational Intelligence Society (Egypt chapter) and the IEEE Robotics and Automation Society (Egypt Chapter). The book's content is divided into four main sections: Intelligent

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Language Processing, Intelligent Systems, Intelligent Robotics Systems, and Informatics.

The Rough Sets and Knowledge Technology (RSKT) conferences serve as a - jor forum that brings researchers and industry

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practitioners together to discuss and deliberate on fundamental issues of knowledge processing and management and knowledge-intensive practical solutions in the current knowledge age. - perts from

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around the world meet annually to present state-of-the-art scientific results, to nurture academic and industrial interaction, and to promote collaborative research in rough sets and knowledge technology. The

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main theme of the RSKT conference is to explore the synergy between rough sets and advanced knowledge technology and applications, including knowledge discovery, datamining, knowledge processin

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gandmanagement, granular computing, evolutionary computing, biocomputing and bioinformatics, cognitive computing and cognitive informatics, natural and artificial intelligence, Web intelligence, c-

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plex systems, and many others. The first RSKT conference was held in 2006 in Chongqing, P.R. China, followed by RSKT 2007 in Toronto, Canada and RSKT 2008 in Chengdu, P.R. China. This volume contains the papers

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selected for presentation at the 4th International Conference on Rough Sets and Knowledge Technology (RSKT2009), which was held during July 14-16 on the Gold Coast, Australia.

This book constitutes the

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refereed proceedings of the 6th International Conference on Rough Sets and Knowledge Technology, RSKT 2011, held in Banff, Canada, in September 2011. The 89 revised full papers presented together with 3

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keynote lectures and 1 invited tutorial session were carefully reviewed and selected from 229 submissions. The papers are organized in topical sections on attribute reduction and feature selection, generalized rough set

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models, machine learning with rough and hybrid techniques, knowledge technology and intelligent systems and applications.

"This book explores emerging technologies and best practices

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designed to effectively address concerns inherent in properly optimizing advanced systems, demonstrating applications in areas such as bio-engineering, space exploration, industrial informatics, information

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security, and nuclear and
renewable energies"--Provided
by publisher.

Advances in Knowledge
Discovery and Data Mining
Conceptual Modeling - ER 2004
Handbook of Research on Novel

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Soft Computing Intelligent
Algorithms

Proceedings of ICMCSI 2021

Militarized Conflict Modeling

Using Computational

Intelligence

First International Conference,

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ADMA 2005, Wuhan, China, July
22-24, 2005, Proceedings
Proceedings of the First
International Conference on
Computing, Communication and
Control System, I3CAC 2021,
7-8 June 2021, Bharath

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University, Chennai, India

*This book gathers
selected high-quality
research papers
presented at
International Conference
on Mobile Computing and*

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*Sustainable Informatics
(ICMCSI 2021) organized
by Pulchowk Campus,
Institute of
Engineering, Tribhuvan
University, Nepal,
during 29-30 January*

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2021. The book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices, to personalized, embedded

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*and sustainable
applications. The book
covers vital topics like
mobile networks,
computing models,
algorithms, sustainable
models and advanced*

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*informatics that
supports the symbiosis
of mobile computing and
sustainable informatics.
This book constitutes
the refereed proceedings
of the First*

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*International Conference
on Rough Sets and
Knowledge Technology,
RSKT 2006, held in
Chongqing, China in July
2006. The volume
presents 43 revised full*

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*papers and 58 revised
short papers, together
with 15 commemorative
and invited papers.*

*Topics include rough
computing, evolutionary
computing, fuzzy sets,*

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*granular computing,
neural computing,
machine learning and
KDD, logics and
reasoning, multiagent
systems and Web
intelligence, and more.*

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*This book constitutes
the refereed post-
conference proceedings
of the First
International Conference
on Innovation and
Interdisciplinary*

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*Solutions for
Underserved Areas,
InterSol 2017, and the
6th Colloque National
sur la Recherche en
Informatique et ses
Applications (CNRIA),*

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*held in Dakar, Senegal,
in April 2017. The 15
papers presented at
InterSol were selected
from 76 submissions and
are grouped thematically
in science, energy and*

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*environment, education,
innovation, and
healthcare. The
proceedings also contain
13 papers from the co-
located 6th CNRIA
(Colloque National sur*

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*la Recherche en
Informatique et ses
Applications) focusing
on network architecture
and security, software
engineering, data
management, and signal*

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processing.

*This book constitutes
the refereed proceedings
of the 8th Pacific-Asia
Conference on Knowledge
Discovery and Data
mining, PAKDD 2004, held*

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*in Sydney, Australia in
May 2004. The 50 revised
full papers and 31
revised short papers
presented were carefully
reviewed and selected
from a total of 238*

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*submissions. The papers
are organized in topical
sections on
classification;
clustering; association
rules; novel algorithms;
event mining, anomaly*

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*detection, and intrusion
detection; ensemble
learning; Bayesian
network and graph
mining; text mining;
multimedia mining; text
mining and Web mining;*

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*statistical methods,
sequential data mining,
and time series mining;
and biomedical data
mining.*

*Theory and Practical
Applications*

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*Rough Set and Knowledge
Technology
5th International
Conference, RSCTC 2006,
Kobe, Japan, November
6-8, 2006, Proceedings
5th International*

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*Conference, RSKT 2010,
Beijing, China, October
15-17, 2010, Proceedings
Proceedings of the 6th
International Workshop
Soft Computing
Applications (SOFA*

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2014), Volume 1

*Proceedings of the 4th
International Conference
on Innovations in Bio-
Inspired Computing and
Applications, IBICA
2013, August 22 -24,*

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*2013 - Ostrava, Czech
Republic*

*Rough Sets, Fuzzy Sets,
Data Mining, and
Granular Computing*

This book constitutes the thoroughly
refereed conference proceedings of the

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8th International Conference on Rough Sets and Knowledge Technology, RSKT 2013, held in Halifax, Canada in October 2013 as one of the co-located conferences of the 2013 Joint Rough Set Symposium, JRS 2013. The 69 papers (including 44 regular and 25

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short papers) included in the JRS proceedings (LNCS 8170 and LNCS 8171) were carefully reviewed and selected from 106 submissions. The papers in this volume cover topics such as history and future of rough sets; foundations and probabilistic rough

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sets; rules, reducts, ensembles; new trends in computing; three-way decision rough sets; and learning, predicting, modeling.

The International Conference on Rough Sets and Knowledge Technology (RSKT) has been held every year since 2006.

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RSKT serves as a major forum that brings researchers and industry practitioners together to discuss and deliberate on fundamental issues of knowledge processing and management and knowled- intensive practical solutions in the current

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knowledge age. Experts from around the world meet to present state-of-the-art scientific results, to nurture academic and industrial interaction, and to promote collaborative research in rough sets and knowledge technology. The first RSKT was held in

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Chongqing, China, followed by RSKT 2007 in Toronto, Canada, RSKT 2008 in Chengdu, China and RSKT 2009 in Gold Coast, Australia. RSKT 2010, the 5th in the series, was held in Beijing, China, October 15–17, 2010. This volume contains 98 papers selected for

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presentation at RSKT 2010. Following the success of the previous conferences, RSKT 2010 continued the tradition of a very rigorous reviewing process. Every submission was reviewed by at least two reviewers. Moreover, RSKT 2010 invited several area chairs

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to- pervise the review process of every submission. Most submissions were reviewed by three experts. The Program Committee members were deeply involved in a highly engaging selection process with discussions among reviewers and area chairs.

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When necessary, additional expert reviews were sought. As a result, only top-quality papers were chosen for presentation at the conference, including 49 regular papers (acceptance rate of 28%) and 25 short papers (acceptance rate of 14.3%). We

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would like to thank all the authors for contributing their best papers. Without their support, this conference would not have been possible.

The KES-IDT-2016 proceedings give an excellent insight into recent research, both theoretical and applied,

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in the field of intelligent decision making. The range of topics explored is wide, and covers methods of grouping, classification, prediction, decision support, modelling and many more in such areas as finance, linguistics, medicine, management and

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transportation. This proceedings contain several sections devoted to specific topics, such as: · Specialized Decision Techniques for Data Mining, Transportation and Project Management · Pattern Recognition for Decision Making Systems · New

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Advances of Soft Computing in
Industrial and Management
Engineering · Recent Advances in
Fuzzy Systems · Intelligent Data
Analysis and Applications · Reasoning-
based Intelligent Systems · Intelligent
Methods for Eye Movement Data

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Processing and Analysis · Intelligent
Decision Technologies for Water
Resources Management · Intelligent
Decision Making for Uncertain
Unstructured Big Data · Decision
Making Theory for Economics ·
Interdisciplinary Approaches in

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Business Intelligence Research and Practice · Pattern Recognition in Audio and Speech Processing The KES-IDT conference is a well-established international annual conference, interdisciplinary in nature. These two volumes of proceedings form an

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excellent account of the latest results and outcomes of recent research in this leading-edge area.

This book constitutes the refereed conference proceedings of the 15th International Conference on Rough Sets, Fuzzy Sets, Data Mining and

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Granular Computing, RSFDGrC 2015, held in Tianjin, China in November 2015 as one of the co-located conference of the 2015 Joint Rough Set Symposium, JRS 2015. The 44 papers were carefully reviewed and selected from 97 submissions. The papers in

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this volume cover topics such as rough sets: the experts speak; generalized rough sets; rough sets and graphs; rough and fuzzy hybridization; granular computing; data mining and machine learning; three-way decisions; IJCRS 2015 data challenge.

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Selected works presented at the
ICCVBIC 2018, Coimbatore, India

Rough Sets and Fuzzy Sets

New Trends in Multimedia and

Network Information Systems

ICAS2014

8th International Conference, RSCTC

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2012, Chengdu, China, August 17-20,
2012.Proceedings

I3CAC 2021

15th International Conference,

RSFDGrC 2015, Tianjin, China,

November 20-23, 2015, Proceedings

These volumes constitute the

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Proceedings of the 6th
International Workshop on Soft
Computing Applications, or
SOFA 2014, held on 24-26 July
2014 in Timisoara, Romania.
This edition was organized by
the University of Belgrade,

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Serbia in conjunction with
Romanian Society of Control
Engineering and Technical
Informatics (SRAIT) - Arad
Section, The General
Association of Engineers in
Romania - Arad Section,

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Institute of Computer Science,
Iasi Branch of the Romanian
Academy and IEEE Romanian
Section. The Soft Computing
concept was introduced by
Lotfi Zadeh in 1991 and serves
to highlight the emergence of

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computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness and low solution cost. Soft computing facilitates the use of

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fuzzy logic, neurocomputing, evolutionary computing and probabilistic computing in combination, leading to the concept of hybrid intelligent systems. The combination of such intelligent systems tools

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and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains. The conference

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papers included in these proceedings, published post conference, were grouped into the following area of research:

- Image, Text and Signal Processing
- Intelligent Transportation Modeling and

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Applications Biomedical
Applications Neural Network
and Applications Knowledge-
Based Technologies for Web
Applications, Cloud Computing,
Security, Algorithms and
Computer Networks Knowledge-

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Based Technologies Soft
Computing Techniques for
Time Series Analysis Soft
Computing and Fuzzy Logic in
Biometrics Fuzzy Applications
Theory and Fuzzy Control
Business Process

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Management Methods and Applications in Electrical Engineering The volumes provide useful information to professors, researchers and graduated students in area of soft computing techniques and

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applications, as they report
new research work on
challenging issues.

This volume contains the
papers selected for
presentation at the Third Inter-
national Conference on Rough

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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 theory and its applications constitute a branch of soft

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computing that has exhibited a significant growth rate during recent years. RSCTC 2002 provided a forum for exchanging ideas among many researchers in the rough set community and in various

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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 theory and applications. Hence,

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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 philosophy is

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that it tends to complement and reinforce research in many traditional research areas and applications. This is the main reason that many international conferences are now including rough sets

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into the list of topics.

By applying data analytics techniques and machine learning algorithms to predict disease, medical practitioners can more accurately diagnose and treat patients. However,

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researchers face problems in identifying suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as seeking different ways to build

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and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to

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making disease predictions through the identification of symptoms and information retrieval from images such as MRIs, ECGs, EEGs, etc. Highlighting a wide range of topics including clinical

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decision support systems, biomedical image analysis, and prediction models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts,

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hospital administrators,
researchers, academicians,
and graduate and post-
graduate students.

This book constitutes the
refereed proceedings of the
23rd International Conference

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on Conceptual Modeling, ER
2004, held in Shanghai, China,
in November 2004. The 57
revised full papers presented
together with three invited
contributions and 8
demonstration and poster

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papers were carefully reviewed and selected from 295 submissions. The papers are organized in topical sections on conceptual modeling, datawarehouses, schema integration, data classification

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and mining, web-based information systems, query processing, web services, schema evolution, conceptual modeling applications, UML, XML modeling, and industrial presentations.

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Springer Handbook of
Computational Intelligence
Transactions on Rough Sets II
ICAS2014-International
Conference on Analytics Driven
Solutions
Proceedings of ICICC 2019,

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Volume 2

New Trends in Computational
Vision and Bio-inspired
Computing
Handbook of Research on
Disease Prediction Through
Data Analytics and Machine

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Learning

Rough Sets and Knowledge
Technology

**This book features a
collection of high-quality
research papers presented
at the International**

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**Conference on Intelligent
and Cloud Computing (ICICC
2019), held at Siksha 'O'
Anusandhan (Deemed to be
University), Bhubaneswar,
India, on December 20,
2019. Including**

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**contributions on system
and network design that
can support existing and
future applications and
services, it covers topics
such as cloud computing
system and network**

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**design, optimization for
cloud computing,
networking, and
applications, green cloud
system design, cloud
storage design and
networking, storage**

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**security, cloud system
models, big data storage,
intra-cloud computing,
mobile cloud system
design, real-time resource
reporting and monitoring
for cloud management,**

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**machine learning, data
mining for cloud
computing, data-driven
methodology and
architecture, and
networking for machine
learning systems.**

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I3CAC provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss not only the most recent innovations, trends, and

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**concerns but also practical
challenges encountered
and solutions adopted in
the fields of computing,
communication and control
systems. Participation of
three renowned speakers**

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**and oral presentations of
the 128 authors were
presented in our
conference. We strongly
believe that the I3CAC 2021
conference provides a good
forum for all researchers,**

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**developers and
practitioners to discuss.
This volume of Advances in
Intelligent Systems and
Computing contains
accepted papers presented
at IBICA2013, the 4th**

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**International Conference on
Innovations in Bio-inspired
Computing and
Applications. The aim of
IBICA 2013 was to provide a
platform for world research
leaders and practitioners,**

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**to discuss the full spectrum
of current theoretical
developments, emerging
technologies, and
innovative applications of
Bio-inspired Computing. Bio-
inspired Computing is**

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**currently one of the most
exciting research areas,
and it is continuously
demonstrating exceptional
strength in solving complex
real life problems. The main
driving force of the**

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**conference is to further
explore the intriguing
potential of Bio-inspired
Computing. IBICA 2013 was
held in Ostrava, Czech
Republic and hosted by the
VSB - Technical University**

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of Ostrava.

**This book constitutes the
refereed proceedings of the
8th International
Conference on Rough Sets
and Current Trends in
Computing, RSCTC, held in**

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Chengdu, China, in August 2012, as one of the co-located conferences of the 2012 Joint Rough Set Symposium, JRS 2012. The 55 revised full papers presented together with

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**one keynote paper were
carefully reviewed and
selected from numerous
submissions. The papers
are organized in topical
sections on rough sets and
its applications; current**

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**trends in computing;
decision-theoretic rough
set model and applications;
formal concept analysis and
granular computing; mining
complex data with granular
computing; data mining**

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competition.

**First International
Conference, RSKT 2006,
Chongqing, China, July
24-26, 2006, Proceedings
Transactions on Rough Sets
X**

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**9th International
Conference, RSFDGrC 2003,
Chongqing, China, May
26-29, 2003, Proceedings
12th International
Conference, RSFDGrC 2009,
Delhi, India, December**

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**16-18, 2009, Proceedings
8th Pacific-Asia Conference,
PAKDD 2004, Sydney,
Australia, May 26-28, 2004,
Proceedings
Mobile Computing and
Sustainable Informatics**

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**7th International
Conference, RSCTC 2010,
Warsaw, Poland, June
28-30, 2010 Proceedings**

*This book constitutes the
refereed proceedings of
the 12th International*

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*Conference on Rough Sets,
Fuzzy Sets, Data Mining,
and Granular Computing,
RSFDGrC 2009, held in
Delhi, India in December
2009 in conjunction with
the Third International*

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*Conference on Pattern
Recognition and Machine
Intelligence, PReMI 2009.
RSFDGrC 2009 is the core
component of a broader
Rough Set Year in India
initiative, RSIndia09. The*

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*56 revised full papers
presented together with 6
invited papers and a
report on the Rough Set
Year in India 2009 project
were carefully reviewed
and selected from a total*

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of 130 submissions. The papers are organized in topical sections on foundations of rough sets and beyond; rough set algorithms and applications; fuzzy set

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foundations and applications; data mining and knowledge discovery; clustering and current trends in computing; and information retrieval and text mining.

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*On behalf of the
Organizing Committee, we
would like to welcome you
to the proceedings of the
23rd International
Conference on Conceptual
Modeling (ER 2004). This*

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conference provided an international forum for technical discussion on conceptual modeling of information systems among researchers, developers and users. This was the

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third time that this conference was held in Asia; the first time was in Singapore in 1998 and the second time was in Yokohama, Japan in 2001. China is the third largest

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*nation with the largest
population in the world.
Shanghai, the largest city
in China and a great
metropolis, famous in Asia
and throughout the world,
is therefore a most*

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*appropriate location to
host this conference. This
volume contains papers
selected for presentation
and includes the two
keynote talks by Prof.
Hector Garcia-Molina and*

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*Prof. Gerhard Weikum, and
an invited talk by Dr.
Xiao Ji. This volume also
contains industrial papers
and demo/poster papers. An
additional volume contains
papers from 6 workshops.*

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*The conference also featured three tutorials:
(1) Web Change Management and Delta Mining:
Opportunities and Solutions, by Sanjay Madria, (2) A Survey*

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*of Data Quality Issues in
Cooperative Information
Systems, by Carlo Batini,
and (3) Visual SQL - An ER-
Based Introduction to
Database Programming, by
Bernhard Thalheim.*

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This book is dedicated to the memory of Professor Zdzisław Pawlak who passed away almost six year ago. He is the founder of the Polish school of Artificial

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Intelligence and one of the pioneers in Computer Engineering and Computer Science with worldwide influence. He was a truly great scientist, researcher, teacher and a

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human being. This book prepared in two volumes contains more than 50 chapters. This demonstrates that the scientific approaches discovered by of Professor

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Zdzisław Pawlak,
especially the rough set
approach as a tool for
dealing with imperfect
knowledge, are vivid and
intensively explored by
many researchers in many

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places throughout the world. The submitted papers prove that interest in rough set research is growing and is possible to see many new excellent results both on

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*theoretical foundations
and applications of rough
sets alone or in
combination with other
approaches. We are proud
to offer the readers this
book.*

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This book, which constitutes the tenth volume of the Transactions on Rough Sets series, focuses on a number of research streams that were either directly or

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*indirectly begun by the
seminal work on rough sets
by Zdzislaw Pawlak.*