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The Pacific-Asia Conference on
Knowledge Discovery and Data
Mining (PAKDD) has been held

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every year since 1997. PAKDD 2008, the 12th in the series, was held at Osaka, Japan during May 20–23, 2008. PAKDD is a leading international conference in the area of data mining. It provides an international

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forum for - searchers and industry practitioners to share their new ideas, original research results, and practical development experiences from all KDD-related areas - cluding data mining, data

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warehousing, machine learning, databases, statistics, knowledge acquisition, automatic scientific discovery, data visualization, causal induction, and knowledge-based systems. This year we

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received a total of 312 research papers from 34 countries and regions in Asia, Australia, North America, South America, Europe, and Africa. Every submitted paper was rigorously reviewed by

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two or three reviewers, discussed by the reviewers under the supervision of an Area Chair, and judged by the Program Committee Chairs. When there was a disagreement, the Area Chair

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and/or the Program Committee Chairs provided an additional review. Thus, many submissions were reviewed by four experts. The Program Committee members were deeply involved in a highly

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selective process. As a result, only approximately 11.9% of the 312 submissions were accepted as long papers, 12.8% of them were accepted as regular papers, and 11.5% of them were accepted as short

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papers.

This volume emphasizes the primary role played by images in computer science. In the last two decades images have replaced written texts; the enormous possibilities of the

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image language have overcome written language in an ever-more-restricted ambit. An image is better than one thousand words; so it was straightforward to apply visual language in the field of

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computer science. Nowadays everything that appears on a computer screen is an image, regardless of whether it is a word or a picture. Is it possible to realize an e-learning program without working in

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terms of images? The answer is undoubtedly no, even if several problems arise in this context: the qualitative and quantitative content of the image we need to use for a specific task; the

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psychological effect on the user, including the level of attention and the correct perception of the image significance. Most of these problems form the basis of image-understanding

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techniques. Widespread use of images requires organization of the information in the databank or database, whose dimensions are sometimes so wide as to be too complex to manage; therefore information

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retrieval techniques arise from this need. The new instruments used in image and/or remote diagnosis, image transmission, the respect of the law in force and the ever-more-relevant image

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storage capacity required for this task imply the use of techniques of visual language and information retrieval. The proceedings have been selected for coverage in: OCo Index to Scientific & Technical

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Proceedings- (ISTP- / ISI
Proceedings) OCo Index to
Scientific & Technical
Proceedings (ISTP CDROM
version / ISI Proceedings)"
The DK Eyewitness Travel
Guide: Bulgaria is your

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indispensable guide to this beautiful part of the world. The fully updated guide includes unique cutaways, floor plans, and reconstructions of the must-see sites, plus street-by-street maps of all the

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fascinating cities and towns. This new-look guide is also packed with photographs and illustrations that lead you straight to the best attractions. This uniquely visual DK Eyewitness Travel Guide will

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help you discover everything region-by-region, from local festivals and markets to day trips around the countryside. Detailed listings will guide you to the best hotels, restaurants, bars, and shops for all

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budgets, while detailed practical information will help you to get around, whether by train, bus, or car. Plus, DK's excellent insider tips and essential local information will help you explore every corner

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of Bulgaria effortlessly.
This book encompasses a wide range of mathematical concepts relating to regularly repeating surface decoration from basic principles of symmetry to more complex

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issues of graph theory, group theory and topology. It presents a comprehensive means of classifying and constructing patterns and tilings. The classification of designs is investigated and

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discussed forming a broad basis upon which designers may build their own ideas. A wide range of original illustrative material is included. In a complex area previously best understood by

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mathematicians and
crystallographers, the author
develops and applies
mathematical thinking to the
context of regularly repeating
surface-pattern design in a
manner accessible to artists

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and designers. Design construction is covered from first principles through to methods appropriate for adaptation to large-scale screen-printing production. The book extends

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mathematical thinking beyond symmetry group classification. New ideas are developed involving motif orientation and positioning, including reference to a crystal structure, leading on to the

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classification and construction of discrete patterns and isohedral tilings. Designed to broaden the scope of surface-pattern designers by increasing their knowledge in otherwise impenetrable theory

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of geometry this 'designer friendly' book serves as a manual for all types of surface design including textiles, wallpapers and wrapping paper. It is also of value to crystallographers,

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mathematicians and
architects.

On the Move to Meaningful
Internet Systems: OTM 2013
Conferences
Challenges of Access to
Justice

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New Trends In Fuzzy Logic li -
Proceedings Of The Wilf '97 -
Second Italian Workshop On
Fuzzy Logic 1997
Earthquake Hazard Impact and
Urban Planning
supplement to the book of

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abstracts and author index the
genetics and exploitation of
heterosis in crops

ICCDC 2021

Linked Data is a method of
publishing structured data
to facilitate sharing,

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linking, searching and re-use. Many such datasets have already been published, but although their number and size continues to increase, the main objectives of linking

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and integration have not yet been fully realized, and even seemingly simple tasks, like finding all the available information for an entity, are still challenging. This book,

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Services for Connecting and Integrating Big Numbers of Linked Datasets, is the 50th volume in the series 'Studies on the Semantic Web'. The book analyzes

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the research work done in the area of linked data integration, and focuses on methods that can be used at large scale. It then proposes indexes and algorithms for tackling

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some of the challenges,
such as, methods for
performing cross-dataset
identity reasoning,
finding all the available
information for an entity,
methods for ordering

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content-based dataset discovery, and others. The author demonstrates how content-based dataset discovery can be reduced to solving optimization problems, and techniques

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are proposed for solving these efficiently while taking the contents of the datasets into consideration. To order them in real time, the proposed indexes and

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algorithms have been implemented in a suite of services called LODsyndesis, in turn enabling the implementation of other high level services, such

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as techniques for
knowledge graph
embeddings, and services
for data enrichment which
can be exploited for
machine-learning tasks,
and which also improve the

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prediction of machine-learning problems.

This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for

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Intelligent Systems, ISMIS
2003, held in Maebashi
City, Japan, 28-31
October, 2003. The
symposium was organized by
the Maebashi Institute of
Technology in co-operation

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with the Japanese Society
for Artificial
Intelligence. It was
sponsored by the Maebashi
Institute of Technology,
Maebashi Convention
Bureau, Maebashi City

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Government, Gunma
Prefecture Government, US
AFOSR/AOARD, the Web
Intelligence Consortium
(Japan), Gunma Information
Service Industry
Association, and Ryomo

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Systems Co., Ltd. ISMIS is a conference series that was started in 1986 in Knoxville, Tennessee. Since then it has been held in Charlotte (North Carolina), Knoxville

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(Tennessee), Turin (Italy), Trondheim (Norway), Warsaw (Poland), Zakopane (Poland), and Lyon (France). The program committee selected the following major areas for

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ISMIS 2003: active media
human-computer
interaction, autonomic and
evolutionary computation,
intelligent agent
technology, intelligent
information retrieval,

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intelligent information
systems, knowledge
representation and
integration, knowledge
discovery and data mining,
logic for artificial
intelligence, soft

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computing, and Web intelligence.

Thiagi's 100 Favorite Games is an exciting new resource from Sivasailam "Thiagi" Thiagarajan, who is acknowledged as the

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world's foremost authority on interactive learning. This is a first-of-its-kind collection that represents game play at its very best. Thiagi offers the "how-to" and

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the "lowdown" on his all-time favorite games. With this resource, you'll never be stuck for a fun, innovative, and effective activity. Thiagi's 100 Favorite Games can be used

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to: Illustrate concepts
Aid learning transfer
Improve team work Build
critical skills in any
training event Energize
meetings Or us as
icebreakers, or openers

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and closers to a formal training session
Decision makers are often faced with several conflicting alternatives. How do they evaluate trade-offs when there are more

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than three criteria? To help people make optimal decisions, scholars in the discipline of multiple criteria decision making (MCDM) continue to develop new methods for

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structuring preferences
and determining the
correct relative weights
for criteria. A
compilation of modern
decision-making
techniques, Multiple

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Attribute Decision Making:
Methods and Applications
focuses on the fuzzy set
approach to multiple
attribute decision making
(MADM). Drawing on their
experience, the authors

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bring together current methods and real-life applications of MADM techniques for decision analysis. They also propose a novel hybrid MADM model that combines

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DEMATEL and analytic network process (ANP) with VIKOR procedures. The first part of the book focuses on the theory of each method and includes examples that can be

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calculated without a computer, providing a complete understanding of the procedures. Methods include the analytic hierarchy process (AHP), ANP, simple additive

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weighting method, ELECTRE, PROMETHEE, the gray relational model, fuzzy integral technique, rough sets, and the structural model. Integrating theory and practice, the second

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part of the book illustrates how methods can be used to solve real-world MADM problems. Applications covered in the book include: AHP to select planning and design

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services for a
construction project
TOPSIS and VIKOR to
evaluate the best
alternative-fuel vehicles
for urban areas ELECTRE to
solve network design

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problems in urban
transportation planning
PROMETEE to set priorities
for the development of new
energy systems, from solar
thermal to hydrogen energy
Fuzzy integrals to

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evaluate enterprise
intranet web sites Rough
sets to make decisions in
insurance marketing
Helping readers understand
how to apply MADM
techniques to their

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decision making, this book is suitable for undergraduate and graduate students as well as practitioners.

UM99 User Modeling
Image

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International Conference,
Glasgow, UK, May 8-11,
2006, Proceedings, Part IV
Confederated International
Conferences: CoopIS, DOA-
Trusted Cloud and ODBASE
2013, Graz, Austria,

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September 9-13, 2013.

Proceedings.

Mining Sequential Patterns
from Large Data Sets

Principles of Data Mining
and Knowledge Discovery

In many applications, e.g.,

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bioinformatics, web access traces, system utilization logs, etc., the data is naturally in the form of sequences. It has been of great interests to analyze the sequential data to find their inherent characteristics. The sequential pattern is

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one of the most widely studied models to capture such characteristics. Examples of sequential patterns include but are not limited to protein sequence motifs and web page navigation traces. In this book, we focus on

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sequential pattern mining. To meet different needs of various applications, several models of sequential patterns have been proposed. We do not only study the mathematical definitions and application domains of these

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models, but also the algorithms on how to effectively and efficiently find these patterns. The objective of this book is to provide computer scientists and domain - perts such as life scientists with a set of tools in analyzing and understanding the

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nature of various sequences by : (1) identifying the specific model(s) of sequential patterns that are most suitable, and (2) providing an efficient algorithm for mining these patterns. Chapter 1

INTRODUCTION Data Mining is

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the process of extracting implicit knowledge and discovery of interesting characteristics and patterns that are not explicitly represented in the databases. The techniques can play an important role in understanding data and in

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capturing intrinsic relationships among data instances. Data mining has been an active research area in the past decade and has been proved to be very useful.

A unique treatment of digital video distribution technology in a business

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context, Digital Video Distribution in Broadband, Television, Mobile and Converged Networks explores a range of diverse topics within the field through a combination of theory and practice to provide the best possible insight and exposure.

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The theoretical foundations inside assist a fuller understanding of the technologies used in practice, while real-world examples are correspondingly used to emphasize the applicability of theory in the commercial world. Fully illustrated

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throughout to help explain the fundamental concepts of digital media distribution, Digital Video Distribution in Broadband, Television, Mobile and Converged Networks is divided into three major parts starting initially with the basic

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industry trends that have been driving the adoption of video and making its distribution over the Internet an economically viable solution. This is followed with detail descriptions of challenges and solutions in distributing video in

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□open□ networks such as the Internet. The final part focuses on the challenges and solutions for distributing video in □closed□ networks such as the managed network of Telcos. Provides an A to Z of digital video distribution

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featuring technology, business, research, products and case studies. Features research topics exploring P2P Streaming, Digital Video Distribution over Disruption-Tolerant Networks and Scalable Video on Demand. Includes real

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world product descriptions on
Transcoders, such as Rhozet, and
IPTV Quality of Service Monitoring
product, such as Ineoquest.
This book constitutes the thoroughly
refereed post-conference
proceedings of the 8th International

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Workshop on Security and Trust Management, STM 2012, held in Pisa, Italy, in September 2012 - in conjunction with the 17th European Symposium Research in Computer Security (ESORICS 2012). The 20 revised full papers were carefully

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reviewed and selected from 57 submissions. The papers are organized into topical sections on policy enforcement and monitoring; access control; trust, reputation, and privacy; distributed systems and physical security; authentication and

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security policies.

These proceedings include most of the available information on this major seismic event and its consequences. With an estimated moment magnitude of 7.7 and a heavy toll in terms of human and

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economic losses, it ranks as the largest intermediate-depth earthquake in Europe in the twentieth century. Nevertheless, because of the difficult conditions in the 1940s, the lessons learnt after the Vrancea earthquake were not

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extensively shared with the international scientific community and thus, this book fills a gap in the literature discussing the knowledge acquired after major disasters. Past experience together with current understanding of the 1940 Vrancea

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earthquake are presented along with the latest information on Romanian seismicity, seismic hazard and risk assessment, and seismic evaluation and rehabilitation of buildings and structures. Moreover, it includes excerpts from Romanian post-

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disaster reports and textbooks
concerning the earthquake.

E-learning, Understanding,
Information Retrieval, Medical :
Proceedings of the First
International Workshop, Cagliari,
Italy, 9-10 June 2003

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8th International Workshop, STM
2012, Pisa, Italy, September 13-14,
2012, Revised Selected Papers
Algorithms and Architectures for
Parallel Processing
Proceedings of the Seventh
International Conference

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The 1940 Vrancea Earthquake.
Issues, Insights and Lessons Learnt
Calculus and Mechanics on Two-
Point Homogenous Riemannian
Spaces

*Coverage in this
proceedings includes XML*

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*schemas, data mining,
spatial data, indexes
and cubes, data streams,
P2P and transactions,
complex pattern
processing, IR
techniques, queries and*

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*transactions, XML
databases, data
warehouses, and
distributed data.
Final issue of each
volume includes table of
cases reported in the*

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volume.

This book focuses on the use of Artificial Intelligence and Machine Learning (AI/ML) based techniques to solve issues related to

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*communication networks,
their layers, as well as
their applications. The
book first offers an
introduction to recent
trends regarding
communication networks.*

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The authors then provide an overview of theoretical concepts of AI/ML, techniques and protocols used in different layers of communication.

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Furthermore, this book presents solutions that help analyze complex patterns in user data and ultimately improve productivity.

Throughout, AI/ML-based
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*solutions are provided,
for topics such as
signal detection,
channel modeling,
resource optimization,
routing protocol design,
transport layer*

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*optimization,
user/application
behavior prediction,
software-defined
networking, congestion
control, communication
network optimization,*

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security, and anomaly detection. The book features chapters from a large spectrum of authors including researchers, students, as well as industrials

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*involved in research and
development. Presents
Artificial Intelligence
and Machine Learning
(AI/ML) based techniques
to solve communication
networks related issues*

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as well as real world applications; Provides a focus on how AI/ML can be applied in different layers of communication networks; Highlights solutions that help

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D6 D7 D8 D9

*analyze complex patterns
in user data and
ultimately improve
productivity.*

*New Pathways to Civil
Justice in
EuropeChallenges of*

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*Access to
JusticeSpringer Nature
Volume 2 Proceedings The
7th International
Conference on Complex
Networks and Their
Applications COMPLEX*

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*NETWORKS 2018
Microprocessor System
13th International
Conference, DASFAA 2008,
New Delhi, India, March
19-21, 2008, Proceedings
An Application of Rough*

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Mereology
19th International
Conference, ICA3PP 2019,
Melbourne, VIC,
Australia, December
9-11, 2019, Proceedings,
Part I

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*Pattern Recognition:
From Classical To Modern
Approaches*

This volume includes most of the recent results obtained by Italian researchers in fuzzy logic. It collects selected papers from the

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1997 Italian Workshop on Fuzzy Logic — WILF '97 and some invited papers, covering the mathematical foundations of fuzzy logic, neuro-fuzzy systems, hardware implementation of fuzzy logic controllers, and gives an update on applications to control, physics,

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**decision support systems and
pattern analysis.**

**This is an introduction to classical
and quantum mechanics on two-
point homogenous Riemannian
spaces, empahsizing spaces with
constant curvature. Chapters 1-4
provide basic notations for**

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studying two-body dynamics. Chapter 5 deals with the problem of finding explicitly invariant expressions for the two-body quantum Hamiltonian. Chapter 6 addresses one-body problems in a central potential. Chapter 7 investigates the classical

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counterpart of the quantum system introduced in Chapter 5. Chapter 8 discusses applications in the quantum realm.

This book constitutes the refereed proceedings of the Third European Conference on Principles and Practice of Knowledge Discovery in

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Databases, PKDD'99, held in Prague, Czech Republic in September 1999. The 28 revised full papers and 48 poster presentations were carefully reviewed and selected from 106 full papers submitted. The papers are organized in topical sections on

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**time series, applications,
taxonomies and partitions, logic
methods, distributed and
multirelational databases, text
mining and feature selection, rules
and induction, and interesting and
unusual issues.**

This guide will help you explore

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Copenhagen, learn about the country's Viking history, its beautiful natural landscape, Danish design, and the art of hygge, and get hotel and restaurant recommendations and insider tips to help you plan the perfect trip. Discover the historic amusement

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park of Tivoli and the prestigious Nationalmuseet. Hike around Denmark's spectacular waterways, discover Aarhus, a 2017 European Capital of Culture, and visit the royal palaces of Kronborg Slot and Frederiksborg Slot. DK Eyewitness Travel Guide: Denmark is full of

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inspiring photography and unique illustrations of major attractions such as Storebælt Bridge, Rosenborg Slot, and Christiansborg Slot. With hundreds of full-color photographs, hand-drawn illustrations, and custom maps that illuminate every page,

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**DK Eyewitness Travel Guide:
Denmark truly shows you this city
as no one else can.**

DECISION SUPPORT SYSTEMS

**Digital Video Distribution in
Broadband, Television, Mobile and
Converged Networks**

Thiagi's 100 Favorite Games

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**New Pathways to Civil Justice in
Europe**

**DK Eyewitness Denmark Travel
Guide**

**DATA COMMUNICATIONS AND
COMPUTER NETWORKS**

**This book focuses on four topical and
interconnected, innovative pathways to**

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civil justice within the context of securing and improving access to justice: the use of Artificial Intelligence and its interactions with judicial systems; ADR and ODR tracks in privatising justice systems; the effects of increased self-representation on access to justice; and court

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specialization and the establishment of commercial courts to counter the trend of vanishing court trials. Top academics and experts from Europe, the US and Canada address these topics in a critical and multidisciplinary manner, combining legal, socio-legal and empirical insights. The book is part of

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‘Building EU Civil Justice’, a five-year research project funded by the European Research Council. It will be of interest to scholars and policymakers, as well as practitioners working in the areas of civil justice, alternative dispute resolution, court systems, and legal tech. The chapters

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“Introduction: The Future of Access to Justice – Beyond Science Fiction” and “Constituting a Civil Legal System Called “Just”: Law, Money, Power, and Publicity” are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

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The two-volume set LNCS 11944-11945 constitutes the proceedings of the 19th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2019, held in Melbourne, Australia, in December 2019. The 73 full and 29 short papers presented were carefully reviewed and

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selected from 251 submissions. The papers are organized in topical sections on: Parallel and Distributed Architectures, Software Systems and Programming Models, Distributed and Parallel and Network-based Computing, Big Data and its Applications, Distributed and Parallel

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Algorithms, Applications of Distributed and Parallel Computing, Service Dependability and Security, IoT and CPS Computing, Performance Modelling and Evaluation.

This volume, containing contributions by experts from all over the world, is a collection of 21 articles which present

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review and research material describing the evolution and recent developments of various pattern recognition methodologies, ranging from statistical, syntactic/linguistic, fuzzy-set-theoretic, neural, genetic-algorithmic and rough-set-theoretic to hybrid soft computing, with significant real-life applications.

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In addition, the book describes efficient soft machine learning algorithms for data mining and knowledge discovery. With a balanced mixture of theory, algorithms and applications, as well as up-to-date information and an extensive bibliography, Pattern Recognition: From Classical to Modern Approaches

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is a very useful resource.

**Computational Analysis and
Understanding of Natural Languages:
Principles, Methods and Applications,
Volume 38, the latest release in this
monograph that provides a cohesive and
integrated exposition of these advances
and associated applications, includes**

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new chapters on Linguistics: Core Concepts and Principles, Grammars, Open-Source Libraries, Application Frameworks, Workflow Systems, Mathematical Essentials, Probability, Inference and Prediction Methods, Random Processes, Bayesian Methods, Machine Learning, Artificial Neural

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Networks for Natural Language Processing, Information Retrieval, Language Core Tasks, Language Understanding Applications, and more. The synergistic confluence of linguistics, statistics, big data, and high-performance computing is the underlying force for the recent and

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dramatic advances in analyzing and understanding natural languages, hence making this series all the more important. Provides a thorough treatment of open-source libraries, application frameworks and workflow systems for natural language analysis and understanding Presents new

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**chapters on Linguistics: Core Concepts
and Principles, Grammars, Open-
Source Libraries, Application
Frameworks, Workflow Systems,
Mathematical Essentials, Probability,
and more**

**Security and Trust Management
Trends, Challenges and Solutions**

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**Proceedings of the 3rd International
Conference on Communication, Devices
and Computing**

Reports of the United States Tax Court

7th International Workshop,

RSFDGrC'99, Yamaguchi, Japan,

November 9-11, 1999 Proceedings

Middle East Economic Survey

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This book highlights cutting-edge research in the field of network science, offering scientists, researchers, students and practitioners a unique update on the latest advances in theory, together with a wealth of applications. It presents the peer-reviewed

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proceedings of the VII International Conference on Complex Networks and their Applications (COMPLEX NETWORKS 2018), which was held in Cambridge on December 11-13, 2018. The carefully selected papers cover a wide range of theoretical topics such as network models and

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measures; community structure and network dynamics; diffusion, epidemics and spreading processes; and resilience and control; as well as all the main network applications, including social and political networks; networks in finance and economics; biological and

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neuroscience networks; and
technological networks.

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courses within materials science and engineering. Includes over 430 illustrations and 400 homework problems. Solutions, data files for crystal structures, and appendices, available from www.cambridge.org/9780521651516

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Primarily intended as a text for undergraduate courses in Electronics and Communications Engineering, Computer Science, IT courses, and Computer Applications, this up-to-date and accessible text gives an indepth analysis of data communications and computer

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networks in an easy-to-read style. Though a new title, it is a completely revised and fully updated version of the author's earlier book *Data Communications*. The rapid strides made during the last decade in the fields of data communication and networking, and the close link

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between these two subjects have prompted the author to add several chapters on computer networks in this text. The book gives a masterly analysis of topics ranging from the principles of data transmission to computer networking applications. It also provides standard protocols,

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thereby enabling to bridge the gap between theory and practice. What's more, it correlates the network protocols to the concepts, which are explained with the help of numerous examples to facilitate students' understanding of the subject. This well-organized text presents the

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latest developments in the field and details current topics of interest such as Multicasting, MPLS, IPv6, Gigabit Ethernets, IPSec, SSL, Auto-negotiation, Wireless LANs, Network security, Differentiated services, and ADSL. Besides students, the practicing professionals would find

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the book to be a valuable resource. The book, in its second edition introduces a full chapter on Quality of Service, highlighting the meaning, parameters and functions required for quality of service. This book is recommended in Kaziranga University, Nagaland, IIT Guwahati,

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Assam and West Bengal University of Technology (WBUT), West Bengal for B.Tech. Key Features • The book is self-contained and student friendly. • The sequential organization lends flexibility in designing courses on the subject. • Large number of examples, diagrams and tables illustrate the

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concepts discussed in the text. •
Numerous exercises (with answers),
a list of acronyms, and references to
protocol standards.
Logical-Mathematical Reasoning for
Teens is a resourceful book specially
packaged to improve and promote
logical-mathematical reasoning

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among teenagers. Logical-Mathematical Reasoning for Teens practically demonstrates the approaches to logical thinking and creative reasoning through construction of puzzles, models and concepts, and by using distributive regeneration of ordered system as a

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tool. These practical approaches include recognition of patterns, handling of logical thinking through manipulative and critical thinking skills, derivation of formulas through the use of graph, and solving logical-mathematical reasoning problems. The cutting-edge exercises in the

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book are tailored to unearth and improve logical-mathematical reasoning among teenagers. Careers which draw on logical-mathematical reasoning include mathematicians, scientific researchers, computer programmers, police investigators, engineers, economists, accountants,

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lawyers, and animal trackers.
14th International Symposium,
ISMIS 2003, Maebashi City, Japan,
October 28-31, 2003, Proceedings
Advances in Knowledge Discovery
and Data Mining
Computational Science and Its
Applications - ICCSA 2006

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Multiple Attribute Decision Making
12th Pacific-Asia Conference, PAKDD
2008 Osaka, Japan, May 20-23, 2008
Proceedings

Complex Networks and Their
Applications VII

This volume constitutes the refereed
proceedings of the confederated

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international conferences: Cooperative Information Systems (CoopIS 2013), Distributed Objects and Applications (DOA-Trusted Cloud 2013), and Ontologies, Data Bases and Applications of SEmantics (ODBASE 2013) held as part of OTM 2013 in September 2013 in Graz, Austria. The

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47 revised full papers presented together with 6 short papers and 5 keynotes were carefully reviewed and selected from a total of 137 submissions. The papers are organized in topical sections on business process management; process modelling; service

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management; social networking;
models and schemas; technical
advances in cloud computing; towards
trusted cloud computing; privacy for
the cloud; querying and mining
semantic information; semantic
matching and mapping; semantic
information management; semantics

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in use.

This compact and easy-to-read book describes in detail the basic principles of Decision Support Systems (DSS).

The book also gives a comprehensive account of the various models used in decision making process, the many facets of DSS, and explains how they

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are implemented. Further, it discusses the significance of business reengineering, the role of client-server technology, Internet and Intranet, and analyzes the concepts of Database Management Systems (DBMS), model management and various GUIs. Designed as a textbook for the

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undergraduate and postgraduate students of Computer Science and Management, this book would also be of considerable assistance to the practising professional.

This book presents a study in knowledge discovery in data with knowledge understood as a set of

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relations among objects and their properties. Relations in this case are implicative decision rules and the paradigm in which they are induced is that of computing with granules defined by rough inclusions, the latter introduced and studied within rough mereology, the fuzzified version of

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mereology. In this book basic classes of rough inclusions are defined and based on them methods for inducing granular structures from data are highlighted. The resulting granular structures are subjected to classifying algorithms, notably k —nearest neighbors and bayesian classifiers.

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Experimental results are given in detail both in tabular and visualized form for fourteen data sets from UCI data repository. A striking feature of granular classifiers obtained by this approach is that preserving the accuracy of them on original data, they reduce substantially the size of

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the granulated data set as well as the set of granular decision rules. This feature makes the presented approach attractive in cases where a small number of rules providing a high classification accuracy is desirable. As basic algorithms used throughout the text are explained and illustrated with

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hand examples, the book may also serve as a textbook.

The five-volume set LNCS 3980-3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2006. The volumes present a total of 664 papers

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organized according to the five major conference themes: computational methods, algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling, graphics and visualization information systems and information

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technologies. This is Part IV.
Proceedings of the Symposium
Commemorating 75 Years from
November 10, 1940 Vrancea
Earthquake

Third European Conference, PKDD'99
Prague, Czech Republic, September

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15-18, 1999 Proceedings
Geometric Symmetry in Patterns and
Tilings
Structure of Materials
LOGICAL-MATHEMATICAL
REASONING FOR TEENS
This book constitutes the refereed

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proceedings of the 7th International Workshop on Rough Sets, Fuzzy Sets, Data Mining, and Granular-Soft Computing, RSFDGrC'99, held in Yamaguchi, Japan, in November 1999. The 45 revised regular papers and 15 revised short papers presented

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together with four invited contributions were carefully reviewed and selected from 89 submissions.

The book is divided into sections on rough computing: foundations and applications, rough set theory and applications, fuzzy set theory and

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applications, nonclassical logic and approximate reasoning, information granulation and granular computing, data mining and knowledge discovery, machine learning, and intelligent agents and systems.

User modeling researchers look for

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ways of enabling interactive software systems to adapt to their users-by constructing, maintaining, and exploiting user models, which are representations of properties of individual users. User modeling has been found to enhance the

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effectiveness and/or usability of software systems in a wide variety of situations. Techniques for user modeling have been developed and evaluated by researchers in a number of fields, including artificial intelligence, education, psychology,

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linguistics, human-computer interaction, and information science. The biennial series of International Conferences on User Modeling provides a forum in which academic and industrial researchers from all of these fields can exchange their

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complementary insights on user modeling issues. The published proceedings of these conferences represent a major source of information about developments in this area.

The classical field dealing with

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earthquakes is called “ earthquake engineering ” and considered to be a branch of structural engineering. In projects dealing with strategies for earthquake risk mitigation, urban planning approaches are often neglected. Today interventions are

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needed on a city, rather than a building, scale. This work deals with the impact of earthquakes, including also a broader view on multihazards in urban areas. Uniquely among other works in the field, particular importance is given to urban planning

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issues, in conservation of heritage and emergency management. Multicriteria decision making and broad participation of those affected by disasters are included.

This book provides insights into the 3rd International Conference on

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Communication, Devices and Computing (ICCDC 2021), which was held in Haldia, India, on August 16-18, 2021. It covers new ideas, applications, and the experiences of research engineers, scientists, industrialists, scholars, and students

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from around the globe. The proceedings highlight cutting-edge research on communication, electronic devices, and computing and address diverse areas such as 5G communication, spread spectrum systems, wireless sensor networks, and

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signal processing for secure communication, error control coding, printed antennas, analysis of wireless networks, antenna array systems, analog and digital signal processing for communication systems, frequency selective surfaces,

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radar communication, and substrate integrated waveguide and microwave passive components, which are key to state-of-the-art innovations in communication technologies. .

New Directions in Rough Sets, Data Mining, and Granular-Soft

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Computing

Services for Connecting and
Integrating Big Numbers of Linked
Datasets

Switching Theory and Logic Design

Computational Analysis and

Understanding of Natural Languages:

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Principles, Methods and Applications
Computational Intelligence in Recent
Communication Networks
Foundations of Intelligent Systems