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This book
constitutes the
refereed
proceedings of the
27th International
Conference on
Applications of
Natural Language
to Information
Systems, NLDB
2022, held in
Valencia, Spain in
Page 1/203

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June 2022. The 28 full papers and 20 short papers were carefully reviewed and selected from 106 submissions.

The papers are organized in the following topical sections:

Sentiment Analysis
and Social Media;
Text Classification;
Applications;

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Argumentation;
Information
Extraction and
Linking; User
Profiling;
Semantics;
Language
Resources and
Evaluation.

This book focuses
on the diagnostic
impact of CT scans
in severe
abdominal trauma

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and in non-traumatic acute abdomen, the two clinical entities that constitute the main reasons for referrals for this imaging technique from the intensive care unit. The concept behind it is that emergency surgeons and physicians not only

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need the clinical knowledge to manage the different pathological conditions, but that they must also have a full understanding of diagnostic imaging modalities. To this end, each chapter includes a description of a

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specific acute abdominal disorder. In addition to the clinical presentation and the diagnosis and management guidelines, there is a special focus on imaging studies with clear and concise descriptions, high-

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quality images and the evolution grading scale to aid interpretation. This easy-to-read book is an ideal source of practical information for acute care surgeons, radiologists and for all the members of the emergency team.

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The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of 4th International Conference on

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Advanced
Computing,
Networking and
Informatics. This
book brings
together academic
scientists,
professors,
research scholars
and students to
share and
disseminate
information on
knowledge and

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scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into

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applied
investigation and
convert applied
investigation into
practice.

Management
education in India
has had a
phenomenal
transformation
since the sixties. In
Masters Speak,
Vinay Nangia, who
has four decades of

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experience in
management,
brings together an
array of leaders
and pioneers in the
field. These
exclusive
interviews offer an
insight into how
management
education has
transformed over
the years and
examines the

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issues, challenges and relevance in today's competitive, professional scenario. The views and opinions of prominent educationists allow the reader to a better understanding of what management education actually

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is, and its
prospects in the
Indian context.
History,
Production and
Applications
Linguistic
Refactoring of
Business Process
Models
IEM-ICDC 2021
13th Pacific Rim
International
Conference on

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Artificial
Intelligence,
PRICAI 2014, Gold
Coast, QLD,
Australia,
December 1-5,
2014, Proceedings
4th Asia-Pacific
Symposium,
APRES 2017,
Melaka, Malaysia,
November 9-10,
2017, Proceedings
Survey

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Proceedings of
I3CS2021

This book is a
collection of high-
quality peer
reviewed
contributions
from the
academicians,
researchers,
practitioners, and
industry
professionals,

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accepted in the
International
Conference on
Advances in Data
Computing,
Communication
and Security
(I3CS2021)
organized by the
Department of
Electronics and
Communication
Engineering in

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collaboration with
the Department
of Computer
Engineering,
National Institute
of Technology,
Kurukshetra,
India during
08-10 Sep 2021.
The fast pace of
advancing
technologies and
growing

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expectations of the next-generation requires that the researchers must continuously reinvent themselves through new investigations and development of the new products. The

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theme of this conference is devised as "Embracing Innovations" for the next-generation data computing and secure communication system. Offers comprehensive

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insight into the theory, models, and techniques of ultra-dense networks and applications in 5G and other emerging wireless networks

The need for speed—and power—in wireless

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communications is growing exponentially. Data rates are projected to increase by a factor of ten every five years—and with the emerging Internet of Things (IoT) predicted to wirelessly

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connect trillions of devices across the globe, future mobile networks (5G) will grind to a halt unless more capacity is created. This book presents new research related to the theory and practice of all

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aspects of ultra-dense networks, covering recent advances in ultra-dense networks for 5G networks and beyond, including cognitive radio networks, massive multiple-input multiple-output (MIMO),

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device-to-device
(D2D)
communications,
millimeter-wave
communications,
and energy
harvesting
communications.
Clear and concise
throughout, Ultra-
Dense Networks
for 5G and
Beyond -

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Modelling,
Analysis, and
Applications
offers a
comprehensive
coverage on such
topics as network
optimization;
mobility, handoff
control, and
interference
management;
and load

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balancing
schemes and
energy saving
techniques. It
delves into the
backhaul traffic
aspects in ultra-
dense networks
and studies
transceiver
hardware
impairments and
power

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consumption models in ultra-dense networks. The book also examines new IoT, smart-grid, and smart-city applications, as well as novel modulation, coding, and waveform designs. One of

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the first books to
focus solely on
ultra-dense
networks for 5G
in a complete
presentation

Covers advanced
architectures, self-
organizing
protocols,
resource
allocation, user-
base station

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association,
synchronization,
and signaling
Examines the
current state of
cell-free massive
MIMO, distributed
massive MIMO,
and
heterogeneous
small cell
architectures
Offers network

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measurements,
implementations,
and demos Looks
at wireless
caching
techniques,
physical layer
security,
cognitive radio,
energy
harvesting, and
D2D
communications

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in ultra-dense
networks Ultra-
Dense Networks
for 5G and
Beyond -
Modelling,
Analysis, and
Applications is an
ideal reference
for those who
want to design
high-speed, high-
capacity

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communications
in advanced
networks, and will
appeal to
postgraduate
students,
researchers, and
engineers in the
field.

This book,
Organic Fertilizers
- History,
Production and

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Applications, aims to provide an update on research issues related to organic fertilizers, highlighting their importance in sustainable agriculture and the environment. We aimed to compile

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information from diverse sources into a single volume and to give some real-life examples, extending the appreciation of organic fertilizers that may stimulate new research ideas and trends in

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relevant fields.
The contributions
in this field of
research are
gratefully
acknowledged.
The publication of
this book is of
great importance
for those
researchers,
scientists,
engineers,

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teachers,
graduate
students,
agricultural
agronomists,
farmers and crop
producers who
can use these
different
investigations to
understand the
advantages of
using organic

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fertilizers.

This book
constitutes the
proceedings of
the 4th Asia
Pacific
Requirements
Engineering
Symposium,
APRES 2017, held
in Melaka,
Malaysia, in
November 2017.

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The 11 full papers presented together with four short papers were carefully reviewed and selected from 45 submissions. The papers are organized in topical sections on big data, cyber security, crowd-

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sourcing,
requirements
challenges,
automation.

Proceedings of
ICACNI 2016,
Volume 1
Information and
Software
Technologies
Volume Eleven
Science of Heat
and

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Thermophysical
Studies

Advances in

Agronomy

GROUNDBREAKIN

G INVENTIONS IN

INFORMATION

AND

COMMUNICATION

TECHNOLOGY

Best Practices,

Experimental

Protocols, and

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Regulations

Advances in Data
Computing,
Communication and
Security Proceeding
s of
I3CS2021 Springer
Nature

Includes papers
about Argentina,
Fiji, India,
Indonesia, Kenya,
Malaysia, Mexico,

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Paraguay &
Uruguay

This book includes
selected papers
presented at
International
Conference on
Computational
Intelligence, Data
Science,, and Cloud
Computing (IEM-
ICDC 2021),
organized by the

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Department of
Information
Technology Institute
of Engineering and
Management,
Kolkata, India,
during December 22
– 24, 2021. It covers
substantial new
findings about AI
and robotics, image
processing and
NLP, cloud

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computing and big data analytics as well as in cyber-security, blockchain and IoT, and various allied fields. The book serves as a reference resource for researchers and practitioners in academia and industry.

This book

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constitutes the
refereed
proceedings of the
18th International
Conference on
Information and
Software
Technologies, ICIST
2012, held in
Kaunas, Lithuania,
in September 2012.
The 40 revised full
papers presented

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were carefully reviewed and selected from 81 submissions. The papers are organized in topical sections on artificial intelligence and knowledge engineering, business process modelling, analysis and design, formal

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analysis and design
methods,
information and
software systems
engineering,
information
technology
applications and
computer networks,
information
technology in
teaching and
learning, ontology,

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conceptual
modelling and
databases,
requirements
engineering and
business rules.

Feed

Supplementation

Blocks

Proceedings of First
International
Conference on
Smart System,

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Innovations and
Computing
Urea-molasses
Multinutrient Blocks
: Simple and
Effective Feed
Supplement
Technology for
Ruminant
Agriculture
Advances in Data
Computing,
Communication and

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Security

Organic Fertilizers

Handbook of LC-MS

Bioanalysis

Computational

Intelligence in Data

Mining - Volume 3

*This omnibus edition
features the ever-
popular adventures of
Satyajit Ray's enduring
creation, the
professional sleuth*

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Pradosh C. Mitter (Feluda). In his escapades, Feluda is accompanied by his cousin Topshe and the bumbling crime writer Lalmohan Ganguly (Jatayu). From Jaisalmer to Simla, from the Ellora Caves to Varanasi, the trio traverse fascinating locales to unravel one devious crime after

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another.

*Holocene Climate
Change and
Environment presents
detailed, diverse case
studies from a range of
environmental and
geological regions on
the Indian subcontinent
which occupies the
central part of the
monsoon domain. This
book examines
Holocene events at*

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different time intervals based on a new, high-resolution, multi-proxy records (pollen, spores, NPP, diatoms, grain size characteristics, total organic carbon, carbon/nitrogen ratio, stable isotopes) and other physical tools from all regions of India. It also covers new facilities in chronological study and

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luminescence dating, which have added a new dimension toward understanding the Holocene glacial retreats evolution of coastal landforms, landscape dynamics and human evolution. Each chapter is presented with a unified structure for ease of access and application, including an introduction,

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*geographic details,
field work and
sampling techniques,
methods, results and
discussion. This detailed
examination of such an
important region
provides key insights in
climate modeling and
global prediction
systems. Provides data
and research from
environmentally and
geologically diverse*

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*regions across the
Indian subcontinent
Presents an integrated
and interdisciplinary
approach, including
considerations of
human impacts
Features detailed case
studies that include
methods and data,
allowing for
applications related to
research and global
modeling*

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Soil and water salinity is a major challenge for the agricultural community and policy makers in terms of meeting the burgeoning population's demand for food and other agricultural commodities. In coastal regions, climate change and sea level rise will aggravate the problem with more and more

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areas becoming saline due to intrusion of sea water. As such there is a pressing need for modern tools and innovative techniques for the identification of salty soils and poor-quality waters, crop production, soil reclamation and lowering the water table in waterlogged areas.

Tackling next-

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generation problems such as contamination of soil and underground water due to fluoride and arsenic, as well as developing multi-stress tolerant crops is also a high priority. Further, techniques for domesticating halophytes, mangrove-based aquacultures, using seaweed cultures

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as agricultural crops and integrated farming systems need to be perfected. This book addresses all these aspects in detail, highlighting the diverse solutions to tackle the complex problem of salinity and waterlogging and safer management of poor-quality waters. With chapters written by

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leading experts, it is a valuable resource for researchers planning future investigations, policy makers, farmers and other stakeholders, and for students wanting insights into vital issues of environment.

Natural language is one of the most important means of human communication. It

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enables us to express our will, to exchange thoughts and to document our knowledge in written sources. Owing to its substantial role in many facets of human life, technology for automatically analyzing and processing natural language has recently become increasingly important. In fact,

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natural language processing tools have paved the way for entirely new business opportunities. The goal of this book is to facilitate the automatic analysis of natural language in process models and to employ this analysis for assisting process model stakeholders.

Therefore, a technique

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is defined that automatically recognizes and annotates process model element labels. In addition, this technique is leveraged to support organizations in effectively utilizing their process models in various ways. The book is organized into seven chapters. It starts with an overview of business

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*process management
and linguistics and
continues with
conceptual
contributions on parsing
and annotating process
model elements, with
the detection and
correction of process
model guideline
violations, with the
generation of natural
language from process
models and finally ends*

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*with the derivation of
service candidates from
process models.*

*Information Science
and Applications 2017*

*Knowledge-Based
Software Engineering:
2018*

Requirements

Engineering for

Internet of Things

Proceedings of the 12th

Joint Conference on

Knowledge-Based

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*Software Engineering
(JCKBSE 2018) Corfu,
Greece*

Gul Mohar

Companion-4

Natural Language

Processing and

Information Systems

Progress in Intelligent

Computing Techniques:

Theory, Practice, and

Applications

This series

provides an

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unequalled
source of
information on
an area of
chemistry that
continues to
grow in
importance.
Divided into
sections mainly
according to
the particular
spectroscopic

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technique used,
coverage in
each volume
includes: NMR
(with reference
to stereochemis-
try, dynamic
systems,
paramagnetic
complexes,
solid state NMR
and Groups
13-18); nuclear

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quadrupole
resonance
spectroscopy;
vibrational
spectroscopy of
main group and
transition
element
compounds and
coordinated
ligands; and
electron
diffraction.

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Reflecting the growing volume of published work in the field, researchers will find this an invaluable source of information on current methods and applications.

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Volume 39
provides a
critical review
of the
literature
published up to
late 2004.

Machine
Learning in Bio-
Signal Analysis
and Diagnostic
Imaging
presents

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original
research on the
advanced
analysis and
classification
techniques of
biomedical
signals and
images that
cover both
supervised and
unsupervised
machine

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learning
models,
standards,
algorithms, and
their
applications,
along with the
difficulties
and challenges
faced by
healthcare
professionals
in analyzing

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biomedical
signals and
diagnostic
images. These
intelligent
recommender
systems are
designed based
on machine
learning, soft
computing,
computer
vision,

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artificial
intelligence
and data mining
techniques.
Classification
and clustering
techniques,
such as PCA,
SVM,
techniques,
Naive Bayes,
Neural Network,
Decision trees,

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and Association
Rule Mining are
among the
approaches
presented. The
design of high
accuracy
decision
support systems
assists and
eases the job
of healthcare
practitioners

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and suits a variety of applications. Integrating Machine Learning (ML) technology with human visual psychometrics helps to meet the demands of radiologists in improving the

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efficiency and quality of diagnosis in dealing with unique and complex diseases in real time by reducing human errors and allowing fast and rigorous analysis. The

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book's target audience includes professors and students in biomedical engineering and medical schools, researchers and engineers. Examines a variety of

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machine
learning
techniques
applied to bio-
signal analysis
and diagnostic
imaging
Discusses
various methods
of using
intelligent
systems based
on machine

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learning, soft
computing,
computer
vision,
artificial
intelligence
and data mining
Covers the most
recent research
on machine
learning in
imaging
analysis and

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includes
applications to
a number of
domains
This book
contains
selected papers
from the 8th
International
Conference on
Information
Science and
Applications

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(ICISA 2017)
and provides a
snapshot of the
latest issues
encountered in
technical
convergence and
convergences of
security
technology. It
explores how
information
science is core

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to most current
research,
industrial and
commercial
activities and
consists of
contributions
covering topics
including
Ubiquitous
Computing,
Networks and
Information

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Systems,
Multimedia and
Visualization,
Middleware and
Operating
Systems,
Security and
Privacy, Data
Mining and
Artificial
Intelligence,
Software
Engineering,

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and Web
Technology. The
proceedings
introduce the
most recent
information
technology and
ideas,
applications
and problems
related to
technology
convergence,

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illustrated
through case
studies, and
reviews
converging
existing
security
techniques.
Through this
volume, readers
will gain an
understanding
of the current

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state-of-the-art information strategies and technologies of convergence security. The intended readerships are researchers in academia, industry and other research institutes

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focusing on
information
science and
technology.

The book covers
a wide range of
topics in
Computer
Science and
Information
Technology
including swarm
intelligence,

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artificial
intelligence,
evolutionary
algorithms, and
bio-inspired
algorithms. It
is a collection
of papers
presented at
the First
International
Conference on
Intelligent

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Computing and
Communication
(ICIC2) 2016.
The prime areas
of the
conference are
Intelligent
Computing,
Intelligent
Communication,
Bio-
informatics, Ge
o-informatics,

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Algorithm,
Graphics and
Image
Processing,
Graph Labeling,
Web Security,
Privacy and e-
Commerce,
Computational
Geometry,
Service Orient
Architecture,
and Data

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Engineering.
Soil Carbon
Stabilization
to Mitigate
Climate Change
Masters Speak
Proceedings of
a Workshop
Principles &
practice of
marine diesel
engines

Conceptual

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Modeling
Biological
Control of Gastro-intestinal
Nematodes of Ruminants Using
Predacious Fungi
Spectroscopic
Properties of
Inorganic and Organometallic
Compounds

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The edited volume contains original papers contributed to 1st International Conference on Smart System, Innovations and Computing (SSIC 2017) by researchers from different countries. The contributions focuses on two main areas, i.e. Smart Systems Innovations which

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includes applications for smart cities, smart grid, social computing and privacy challenges with their theory, specification, design, performance, and system building. And second Computing of Complex Solutions which includes algorithms, security solutions, communication and

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networking approaches. The volume provides a snapshot of current progress in related areas and a glimpse of future possibilities. This volume is useful for researchers, Ph.D. students, and professionals working in the core areas of smart systems, innovations and computing.

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In the past decades, organizations had to face numerous challenges due to intensifying globalization, shorter innovation cycles and growing IT support. Business process management is seen as a comprehensive approach to address these challenges. For this purpose, business

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process models are increasingly utilized to document and redesign relevant parts of the organization's business operations. Since organizations tend to have a huge number of such models, analysis techniques are required that ensure the quality of these process models in an automatic fashion. The goal of

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this doctoral thesis is the development of model refactoring techniques by integrating and applying concepts from the three main branches of theoretical linguistics: syntax, semantics, and pragmatics. The syntactical refactoring technique addresses linguistic issues that

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arise by expressing process behavior with natural language. The semantic refactoring technique reworks terminology with overlapping and synonymous meaning. The pragmatic refactoring technique provides recommendations for incompletely specified process models. All of

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the presented techniques have been evaluated with real-world process model repositories from various industries to demonstrate their applicability and efficiency.

Science of Heat and Thermophysical Studies provides a non-traditional bridging of historical,

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philosophical, societal and scientific aspects of heat with a comprehensive approach to the field of generalized thermodynamics. It involves Greek philosophical views and their impact on the development of contemporary ideas. Covered topics include:

- *the concept of heat* •

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*thermometry and
calorimetry • early
concepts of temperature
and its gradients • non-
equilibrium and
quantum
thermodynamics •
chemical kinetics •
entropy, order and
information • thermal
science applied to
economy(econophysics)
, ecosystems, and
process dynamics or*

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*mesoscopic scales
(quantum diffusion) •
importance of energy
science and its
influence to societal life
The Gul Mohar
Companion Offers
Reading Passages With
An Express Link To
The Lessons In The
Reader. The First
Grammatical Item Is
Always Explicitly
Linked To Grammar*

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*That Is Taught In The
Reader; The Second
Grammatical Item Is
An Extension.*

*Additional Exercises
On Vocabulary,
Functions, Listening,
Functional Writing,
Spelling And
Punctuation, And A
New Section For
Examination Practice
Have Been Added.
Theoretical*

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*Foundations,
Techniques, and
Applications
Natural Language in
Business Process
Models
18th International
Conference, ICIST
2012, Kaunas,
Lithuania, September
13-14, 2012.
Proceedings
Proceedings of
International*

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*Conference on
Computational
Intelligence, Data
Science and Cloud
Computing
Holocene Climate
Change and
Environment
Proceedings of the
International
Conference on CIDM,
20-21 December 2014
Introduction to
Thermal Analysis*

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**This book
constitutes the
refereed
proceedings of
the 13th
Pacific Rim
Conference on
Artificial
Intelligence,
PRICAI 2014,
held in Gold
Coast,
Queensland,**

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**Australia, in
December 2014.
The 74 full
papers and 20
short papers
presented in
this volume
were carefully
reviewed and
selected from
203
submissions.
The topics**

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**include
inference;
reasoning;
robotics;
social
intelligence.
AI foundations;
applications of
AI; agents;
Bayesian
networks;
neural
networks;**

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**Markov
networks;
bioinformatics;
cognitive
systems;
constraint
satisfaction;
data mining and
knowledge
discovery;
decision
theory;
evolutionary**

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**computation;
games and
interactive
entertainment;
heuristics;
knowledge
acquisition and
ontology;
knowledge
representation,
machine
learning;
multimodal**

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**interaction;
natural
language
processing;
planning and
scheduling;
probabilistic.
This book
constitutes the
refereed
proceedings of
the 34th
International**

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**Conference on
Conceptual
Modeling, ER
2015, held in
Stockholm,
Sweden, in
October 2015.
The 26 full and
19 short papers
presented were
carefully
reviewed and
selected from**

Read Online Dk Sanyal

131

submissions.

**The papers are
organized in
topical
sections on
business
process and
goal models,
ontology-based
models and
ontology
patterns,**

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**constraints,
normalization,
interoperabilit
y and
integration,
collaborative
modeling,
variability and
uncertainty
modeling,
modeling and
visualization
of user**

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**generated
content, schema
discovery and
evolution,
process and
text mining,
domain-based
modeling, data
models and
semantics, and
applications of
conceptual
modeling.**

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**to Thermal
Analysis
Techniques and
Applications
Edited by
Michael E.
Brown Chemistry
Department,
Rhodes
University,
Grahamstown,
South Africa
KLUWER ACADEMIC**

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**PUBLISHERS NEW
YORK, BOSTON,
DORDRECHT,
LONDON, MOSCOW
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Print ISBN:
1-4020-0472-9
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Publishers New
York, Boston,
Dordrecht,**

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**London, Moscow
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Consolidates
the information
LC-MS
bioanalytical**

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**scientists need
to analyze
small molecules
and
macromolecules
The field of
bioanalysis has
advanced
rapidly,
propelled by
new approaches
for developing
bioanalytical**

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methods, new liquid chromatographic (LC) techniques, and new mass spectrometric (MS) instruments. Moreover, there are a host of guidelines and regulations designed to ensure the

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quality of bioanalytical results. Presenting the best practices, experimental protocols, and the latest understanding of regulations, this book offers a comprehensive

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**review of LC-MS
bioanalysis of
small molecules
and macromolecules.
It not only
addresses the
needs of bioana-
lytical scientists
working on
routine
projects, but
also explores
advanced and**

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**emerging
technologies
such as high-
resolution mass
spectrometry and
dried blood
spot
microsampling.
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features
contributions
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ircontributions
reflect a
review of the
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findings,
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own firsthand a**

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**nalytical labora
tory**

**experience. The
book thoroughly
examines:**

**Fundamentals of
LC-MS**

**bioanalysis in
drug discovery,
drug development
, and**

**therapeutic
drug monitoring**

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**The current
understanding
of regulations
governing LC-
MSbioanalysis
Best practices
and detailed
technical
instructions
for LC-
MSbioanalysis
method
development,**

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**validation, and
stability assess
ment of
analyte(s) of
interest**

**Experimental
guidelines and
protocols for
quantitative LC-
MSbioanalysis
of challenging
molecules,
including pro-**

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drugs, acylglucuronides, N-oxides, reactive compounds, and photosensitive and autooxidative compounds
With its focus on current bioanalytical practice,
Handbook of LC-

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**MS Bioanalysis
enables
bioanalytical
scientists to
develop and
validate robust
LC-MS assay
methods, all in
compliance
with current
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The Complete**

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**Adventures of
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high-quality research
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Congress 2019,
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experts in the areas
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applications, AI and
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interfaces, computer
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and the IoT, social
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of subject matter in
the crop and soil
sciences
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limited resources

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and changing market conditions and in the attempt to enhance productivity for strengthening livelihoods, many technologies have been used to improve feed use and animal performance at the farm level. A

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particularly
successful example,
in terms of both
geographic range of
use and relative
simplicity in
formulation and
preparation, is the
urea-molasses multi-
nutrient block
technology. This
publication provides

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a comprehensive
overview of
development and use
of the block
technology in
countries around the
world and it might
be of great practical
value to extension
workers, students,
researchers and
those thinking of

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using such feed supplementation technology or of starting commercial production.--Publisher's description. The contributed volume aims to explicate and address the difficulties and challenges for the

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seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. Data Mining aims at the automatic discovery of underlying non-trivial knowledge from datasets by

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applying intelligent analysis techniques. The interest in this research area has experienced a considerable growth in the last years due to two key factors: (a) knowledge hidden in organizations' databases can be

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exploited to improve strategic and managerial decision-making; (b) the large volume of data managed by organizations makes it impossible to carry out a manual analysis. The book addresses different methods and

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techniques of integration for enhancing the overall goal of data mining. The book helps to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and

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computational
intelligence, along
with some current
issues and
applications of
related topics.

Research

Developments in
Saline Agriculture
Techniques and
Applications

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Volume I

Proceedings of the
Global AI Congress
2019

Advances in
Electrical
Engineering and
Computational
Science

Management

Education In India

Carbon stabilization

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involves to capturing carbon from the atmosphere and fix it in the forms soil organic carbon stock for a long period of time, it will be present to escape as a greenhouse gas in the form of carbon dioxide. Soil carbon storage is an

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important ecosystem service, resulting from interactions of several ecological processes. This process is primarily mediated by plants through photosynthesis, with carbon stored in the form of soil organic carbon. Soil carbon

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levels have reduced over decades of conversion of pristine ecosystems into agriculture landscape, which now offers the opportunity to store carbon from air into the soil. Carbon stabilization into the agricultural soils is a

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*novel approach of
research and offers
promising reduction
in the atmospheric
carbon dioxide levels.
This book brings
together all aspects of
soil carbon
sequestration and
stabilization, with a
special focus on
diversity of*

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*microorganisms and
management
practices of soil in
agricultural systems.
It discusses the role
of ecosystem
functioning, recent
and future prospects,
soil microbial
ecological studies,
rhizosphere
microflora, and*

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*organic matter in soil
carbon stabilization.
It also explores
carbon
transformation in
soil, biological
management and its
genetics, microbial
transformation of
soil carbon, plant
growth promoting
rhizobacteria*

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(PGPRs), and their role in sustainable agriculture. The book offers a spectrum of ideas of new technological inventions and fundamentals of soil sustainability. It will be suitable for teachers, researchers, and policymakers,

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*undergraduate and
graduate students of
soil science, soil
microbiology,
agronomy, ecology,
and environmental
sciences*

*This book
summarizes the new
research results
presented at the 12th
Joint Conference on*

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*Knowledge-Based
Software Engineering
(JCKBSE 2018),
which took place on
August 27–30, 2018
on the island of
Corfu, Greece. The
JCKBSE is a well-
established
international biennial
conference that
focuses on the*

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*applications of
Artificial Intelligence
in Software
Engineering. The
JCKBSE 2018 was
organized by the
Department of
Informatics of the
University of
Piraeus, the
Department of
Computer and*

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*Information
Engineering of
Nippon Institute of
Technology, and the
Department of
Informatics of Ionian
University. The book
will benefit not only
experts and
researchers in the
field of (Knowledge-
Based) Software*

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*Engineering, but also
general readers in the
fields of Artificial
Intelligence,
Computational
Intelligence and
Computer Science
who wish to learn
more about the field
of (Knowledge-
Based) Software
Engineering and its*

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applications. An extensive list of bibliographic references at the end of each paper encourages readers to probe further into the application areas that interest them most.

This book uses tutorials and new material to describe

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the basic concepts of soft-computing which potentially can be used in real-life sensor network applications. It is organized in a manner that exemplifies the use of an assortment of soft-computing applications for

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solving different problems in sensor networking. Written by worldwide experts, the chapters provide a balanced mixture of different problems concerning channel access, routing, coverage, localization, lifetime maximization and

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*target tracking using
emerging soft-
computing
applications.
Advances in
computers and
communications have
revolutionised the
way we live. This has
happened in a short
span of sixty-five
years. Today we*

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wonder how people lived without access to mobile phones and the Internet. • This book seeks to answer the following questions lucidly to a non-specialist general reader: • How did this revolution happen? • What groundbreaking

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*inventions led to this
revolution? • Why
are they
groundbreaking
inventions? • Who
were the innovators
and inventors of
these technologies? •
What led them to
these inventions?
Fifteen
groundbreaking*

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*inventions: Fortran,
Integrated Circuits,
Relational Database
Management Systems,
Local Area
Networks, Personal
Computers, Public
Key Encryption,
Computer Graphics,
Internet, GPS, World
Wide Web, Search
Engines, Digitisation*

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*and Compression of
Multimedia, Mobile
Computing, Cloud
Computing, and Deep
Learning (AI) are
described cogently by
Professor V.*

*Rajaraman, a doyen
of Computer Science
education and
research in India.*

TARGET

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professionals in the

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Anyone who wants to

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Soft Computing

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Sensor Networks

A Generalized

Approach to Thermal

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Analysis

*Modelling, Analysis,
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*27th International
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*Natural Language to
Information Systems,*

NLDB 2022,

*Valencia, Spain, June
15–17, 2022,*

Proceedings

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*SSIC 2017, Jaipur,
India*

*PRICAI 2014:
Trends in Artificial
Intelligence*

*Ultra-Dense
Networks for 5G and
Beyond*

This book
features
extended
versions of

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selected
papers that
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and discussed
at the 7th
International
Doctoral
Symposium on
Applied
Computation
and Security
Systems (ACSS

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2020) held in
Kolkata, India
on February
28-29, 2020.

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Technology,
both from the
University of
Calcutta, the
symposium's
international
partners were
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University of
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and Bialystok
University of
Technology,
Poland. The
chapters cover
topics such as
biometrics,
image
processing,
pattern
recognition,
algorithms,

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cloud
computing,
wireless
sensor
networks and
security
systems,
reflecting the
various
symposium
sessions.
This book

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addresses
various
aspects of how
smart
healthcare can
be used to
detect and
analyze
diseases, the
underlying
methodologies,
and related

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security

concerns.

Healthcare is a multidisciplinary field that involves a range of factors like the financial system, social factors, health

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technologies,
and
organizational
structures
that affect
the healthcare
provided to
individuals,
families,
institutions,
organizations,
and

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populations.
The goals of
healthcare
services
include
patient
safety,
timeliness,
effectiveness,
efficiency,
and equity.
Smart

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healthcare
consists of m-
health, e-
health,
electronic
resource
management,
smart and
intelligent
home services,
and medical
devices. The

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Internet of Things (IoT) is a system comprising real-world things that interact and communicate with each other via networking technologies.

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The wide range of potential applications of IoT includes healthcare services. IoT-enabled healthcare technologies are suitable for remote

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health
monitoring,
including reha
bilitation,
assisted
ambient
living, etc.
In turn,
healthcare
analytics can
be applied to
the data

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gathered from
different
areas to
improve
healthcare at
minimum
expense.

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Computing,
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Performance
Computing, and
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applications.
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Engineering
and
Computational
Science will
offer the
state of art
of tremendous
advances in
electrical
engineering
and
computational

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science and
also serve as
an excellent
reference work
for
researchers
and graduate
students
working
with/on
electrical
engineering

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and
computational
science.
ICISA 2017