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**Journal Of Computer
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*A key focus in recent years has
been on sustainable development*

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and promoting environmentally conscious practices. In today's rapidly evolving technological world, it is important to consider how technology can be applied to solve problems across disciplines and fields in these areas. Further

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study is needed in order to understand how technology can be applied to sustainability and the best practices, considerations, and challenges that follow. Futuristic Trends for Sustainable Development and Sustainable

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Ecosystems discusses recent advances and innovative research in the area of information and communication technology for sustainable development and covers practices in several artificial intelligence fields such as

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knowledge representation and reasoning, natural language processing, machine learning, and the semantic web. Covering topics such as blockchain, deep learning, and renewable energy, this reference work is ideal for

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computer scientists, industry professionals, researchers, academicians, scholars, instructors, and students.

Knowledge Mining Using Intelligent Agents explores the concept of knowledge discovery processes

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and enhances decision-making capability through the use of intelligent agents like ants, termites and honey bees. In order to provide readers with an integrated set of concepts and techniques for understanding

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knowledge discovery and its practical utility, this book blends two distinct disciplines data mining and knowledge discovery process, and intelligent agents-based computing (swarm intelligence and computational intelligence).

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For the more advanced reader, researchers, and decision/policy-makers are given an insight into emerging technologies and their possible hybridization, which can be used for activities like dredging, capturing, distributions and the

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utilization of knowledge in their domain of interest (i.e. business, policy-making, etc.). By studying the behavior of swarm intelligence, this book aims to integrate the computational intelligence paradigm and

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*intelligent distributed agents
architecture to optimize various
engineering problems and
efficiently represent knowledge
from the large gamut of data.
This book constitutes the
proceedings of the First*

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International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2013, held in Tamil Nadu, India on December 2013. The 82 papers presented were carefully reviewed and selected from 334 submissions.

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The papers cover the topics such as feature selection, classification, clustering, image processing, network security, speech processing, machine learning, information retrieval, recommender systems, natural

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language processing, language, cognition and computation and other certain problems in dynamical systems.

With new technologies, such as computer vision, internet of things, mobile computing, e-governance

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and e-commerce, and wide applications of social media, organizations generate a huge volume of data and at a much faster rate than several years ago. Big data in large-/small-scale systems, characterized by high

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volume, diversity, and velocity, increasingly drives decision making and is changing the landscape of business intelligence. From governments to private organizations, from communities to individuals, all areas are being

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affected by this shift. There is a high demand for big data analytics that offer insights for computing efficiency, knowledge discovery, problem solving, and event prediction. To handle this demand and this increase in big data, there

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*needs to be research on
innovative and optimized machine
learning algorithms in both large-
and small-scale systems.*

*Applications of Big Data in Large-
and Small-Scale Systems includes
state-of-the-art research findings*

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on the latest development, up-to-date issues, and challenges in the field of big data and presents the latest innovative and intelligent applications related to big data. This book encompasses big data in various multidisciplinary fields

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from the medical field to agriculture, business research, and smart cities. While highlighting topics including machine learning, cloud computing, data visualization, and more, this book is a valuable reference tool for

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computer scientists, data scientists and analysts, engineers, practitioners, stakeholders, researchers, academicians, and students interested in the versatile and innovative use of big data in both large-scale and small-scale

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systems.

*Applications in Ubiquitous
Computing*

*Recent Advances on Memetic
Algorithms and its Applications in
Image Processing*

Intelligent Circuits and Systems

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*Handbook of Research on Digital
Content Management and
Development in Modern Libraries
Smart Cyber Physical Systems
Proceedings of International
Conference on Advances in
Computing*

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This volume contains selected papers which had been presented during CISCON 2018. The papers cover the latest trends in the fields of instrumentation, sensors and systems, industrial automation & control, image and signal processing, robotics, renewable energy, power systems and power drives, with focus on solving the

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current challenges faced in the field of instrumentation and control engineering. This volume will be of use to academic and industry researchers and students working in this field.

To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and

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attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G

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Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and wireless communication, this major reference work is an excellent resource for

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*computer scientists, engineers, students
and professors in higher education,
researchers, and academicians.*

*This up-to-date reference is the most
comprehensive summary of the field of
nanoscience and its applications. It begins
with fundamental properties at the
nanoscale and then goes well beyond into*

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the practical aspects of the design, synthesis, and use of nanomaterials in various industries.

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

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practical challenges encountered and solutions adopted in the fields of computing, communication and control systems. Participation of three renowned speakers and oral presentations of the 128 authors were presented in our conference. We strongly believe that the I3CAC 2021 conference provides a good forum for all

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*researchers, developers and practitioners
to discuss.*

*Mining Intelligence and Knowledge
Exploration*

*Handbook of Research on Applications
and Implementations of Machine Learning
Techniques*

Integration and Security Challenges

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*Proceedings of the First International
Conference on Computing,
Communication and Control System,
I3CAC 2021, 7-8 June 2021, Bharath
University, Chennai, India
Technology, Tools, and Use Cases
Two Day International Conference on
Data Science and Information*

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Ecosystem'21

***This book presents
selected papers from the
6th International
Conference on Inventive
Systems and Control
(ICISC 2022), held on***

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*6-7 January 2022 at JCT
College of Engineering
and Technology,
Coimbatore, India. The
conference proceedings
of ICISC 2022 includes
an analysis of the class*

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*of intelligent systems
and control techniques
that utilizes various
artificial intelligence
technologies, where
there is no mathematical
models and system*

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*available to make them
remain controlled.*

*Inspired by various
existing intelligent
techniques, the primary
goal of ICISC 2022
proceedings is to*

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*present the emerging
innovative models to
tackle the challenges
faced by the existing
computing and
communication
technologies.*

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*ICICS-2020 is the third
conference initiated by
the School of
Electronics and
Electrical Engineering
at Lovely Professional
University that explored*

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*recent innovations of
researchers working for
the development of smart
and green technologies
in the fields of Energy,
Electronics,
Communications,*

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*Computers, and Control.
ICICS provides
innovators to identify
new opportunities for
the social and economic
benefits of society.
This conference bridges*

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*the gap between
academics and R&D
institutions, social
visionaries, and experts
from all strata of
society to present their
ongoing research*

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*activities and foster
research relations
between them. It
provides opportunities
for the exchange of new
ideas, applications, and
experiences in the field*

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*of smart technologies
and finding global
partners for future
collaboration. The
ICICS-2020 was conducted
in two broad categories,
Intelligent Circuits &*

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*Intelligent Systems and
Emerging Technologies in
Electrical Engineering.
There is a need to be
aware of the challenges
awaiting us in next
generation (NextGen)*

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*networks in order to
take the proper steps to
either minimize or
eliminate issues as they
present themselves.*

*Incorporating artificial
intelligence in NextGen*

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networks for privacy and security policies will serve this purpose. It is essential to stay current with these emerging technologies and applications in

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*order to maintain safe
and secure
communications in the
future. Challenges and
Risks Involved in
Deploying 6G and NextGen
Networks explores*

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*strategies for the
design and deployment of
more secured and user-
centered NextGen
networks through
artificial intelligence
to enrich user*

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*experience. It further
investigates the
political, social, and
geographical challenges
involved in realizing
these 6G networks and
explores ways to improve*

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*the security of future
potential applications
as well as protect user
data from illegal
access. Covering topics
such as deep learning
algorithms, aerial*

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*network communication,
and edge computing, this
major reference work is
an indispensable
resource for regulatory
and policy groups,
associations and*

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*technology groups,
government and
international bodies,
technology executives
and technical
institutions, management
consulting and advisory*

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*firms, communication
engineers, network
engineers, students and
educators of higher
education, researchers,
and academicians.*

Smart Cyber Physical

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*Systems Advances,
Challenges and
Opportunities CRC Press
Next Generation
Healthcare Systems Using
Soft Computing
Techniques*

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*Proceedings of ICISC
2022*

*Handbook of Research on
Cloud Computing and Big
Data Applications in IoT
Integrating the Internet
of Things Into Software*

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*Engineering Practices
Futuristic Trends for
Sustainable Development
and Sustainable
Ecosystems
Research and
Applications in Global*

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Supercomputing

Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems. They cover not only information and

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communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management. Therefore, it is critical to remain up-to-date on the latest advancements

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and applications, as well as current issues and challenges. The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and

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the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this

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publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

This book is a collection of high-quality peer reviewed contributions

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from the academicians,
researchers, practitioners, and
industry professionals, accepted in
the International Conference on
Advances in Data Computing,
Communication and Security
(I3CS2021) organized by the

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

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

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conference is devised as "Embracing Innovations" for the next-generation data computing and secure communication system. Edge computing and analytics are fascinating the whole world of computing. Industry and business

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are keenly embracing this sound concept to develop customer-centric solutions by enhancing their operations, offerings, and outputs. There is a bevy of advancements in this domain that came with the arrival of IoT devices. The

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seamless convergence of microservices and serverless computing creates vast opportunities. With the help of IoT devices and these other developments, there has become a deep interest in business

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automation and additional improvisations in edge computing. With the steady growth of edge devices and applications of IoT fog/edge computing and analytics, there are also distinct challenges and threats. Research has been

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keenly focused on identifying and understanding these issues and shortcomings to bring viable solution approaches and algorithms. Cases on Edge Computing and Analytics describes the latest innovations,

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improvements, and transformations happening with edge devices and computing. It addresses the key concerns of the edge computing paradigm, how they are processed, and the various technologies and tools empowering edge computing

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and analytics. While highlighting topics within edge computing such as the key drivers for implementation, computing capabilities, security considerations, and use-cases, this book is ideal for IT industry

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professionals and project managers, computer scientists, computer engineers, and practitioners, stakeholders, researchers, academicians, and students looking for research on the latest trends and transitions in edge

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?This book takes a deep dive into ubiquitous computing for applications in health, business, education, tourism, and transportation. The rich interdisciplinary contents of the

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book appeal to readers from diverse disciplines who aspire to create new and innovative research initiatives and applications in ubiquitous computing. Topics include condition monitoring and diagnostics; multi-objective

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optimization in design, multi-objective optimization of machining parameters, and more. The book benefits researchers, advanced students, as well as practitioners interested in applications of ubiquitous computing. Features

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practical, tested applications in
ubiquitous computing Includes
applications such as health,
business, education, electronics,
tourism, and transportation
Applicable to researchers,
academics, students, and

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professionals

I3CAC 2021

Proceedings of I3CS2021

Advances in Data Computing,

Communication and Security

Handbook of Research on Design,

Deployment, Automation, and

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Testing Strategies for 6G Mobile
Core Network

Control Instrumentation Systems
Computational Intelligence and
Information Technology

This book gathers
selected papers

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presented at the 5th
International Conference
on Intelligent Data
Communication
Technologies and
Internet of Things
(ICICI 2021), organized

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by JCT College of
Engineering and
Technology, Coimbatore,
Tamil Nadu, India during
27 28 August 2021. This
book solicits the
innovative research

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ideas and solutions for almost all the intelligent data intensive theories and application domains. The general scope of this book covers the design,

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architecture, modeling,
software, infrastructure
and applications of
intelligent
communication
architectures and
systems for big data or

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data-intensive applications. In particular, this book reports the novel and recent research works on big data, mobile and wireless networks,

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artificial intelligence,
machine learning, social
network mining,
intelligent computing
technologies, image
analysis, robotics and
autonomous systems, data

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security and privacy.

This book includes
original research
findings in the field of
memetic algorithms for
image processing
applications. It gathers

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contributions on theory,
case studies, and design
methods pertaining to
memetic algorithms for
image processing
applications ranging
from defence, medical

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image processing, and
surveillance, to
computer vision,
robotics, etc. The
content presented here
provides new directions
for future research from

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both theoretical and practical viewpoints, and will spur further advances in the field.

“Neutrosophic Sets and Systems” has been created for publications

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on advanced studies in
neutrosophy,
neutrosophic set,
neutrosophic logic,
neutrosophic
probability,
neutrosophic statistics

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that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc. As today's world

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continues to advance,
Artificial Intelligence
(AI) is a field that has
become a staple of
technological
development and led to
the advancement of

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numerous professional industries. An application within AI that has gained attention is machine learning. Machine learning uses

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statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades. Understanding

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this technology and its
countless
implementations is
pivotal for scientists
and researchers across
the world. The Handbook
of Research on Emerging

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Trends and Applications
of Machine Learning
provides a high-level
understanding of various
machine learning
algorithms along with
modern tools and

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techniques using
Artificial Intelligence.
In addition, this book
explores the critical
role that machine
learning plays in a
variety of professional

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fields including
healthcare, business,
and computer science.
While highlighting
topics including image
processing, predictive
analytics, and smart

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grid management, this book is ideally designed for developers, data scientists, business analysts, information architects, finance agents, healthcare

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professionals,
researchers, retail
traders, professors, and
graduate students
seeking current research
on the benefits,
implementations, and

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trends of machine
learning.

First International
Conference, CIIT 2011,
Pune, India, November
7-8, 2011. Proceedings
RFID Technology

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Integration for Business
Performance Improvement
Enterprise Digital
Transformation
Challenges and Risks
Involved in Deploying 6G
and NextGen Networks

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Proceedings of ICICI
2021

Proceedings of CISCON
2018

International Transaction Journal of
Engineering, Management, &
Applied Sciences & Technologies

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publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related

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disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

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This is the first International Conference on Advances in Computing (ICAdC-2012). The scope of the conference includes all the areas of New Theoretical Computer Science, Systems and Software, and Intelligent systems.

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Conference Proceedings is a culmination of research results, papers and the theory related to all the three major areas of computing mentioned above. Helps budding researchers, graduates in the areas of Computer Science, Information

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Science, Electronics,
Telecommunication,
Instrumentation, Networking to take
forward their research work based
on the reviewed results in the paper
by mutual interaction through e-mail
contacts in the proceedings.

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Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure

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adequate usage. The Handbook of Research on Pattern Engineering System Development for Big Data Analytics is a critical scholarly resource that examines the incorporation of pattern management in business

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technologies as well as decision making and prediction process through the use of data management and analysis. Featuring coverage on a broad range of topics such as business intelligence, feature extraction, and

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data collection, this publication is geared towards professionals, academicians, practitioners, and researchers seeking current research on the development of pattern management systems for business applications.

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Climate change is a major problem, generating both risks and opportunities that will have a direct impact on the economy and the financial sector. In recent years, climate change has threatened both the survival of the financial system

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and economic development. The growing occurrence of extreme climate events combined with the imprudent nature of economic growth can cause unsustainable levels of harm to the financial sectors. On the other hand, it

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presents a range of new business challenges. In contrast to the most evident physical risks, companies are vulnerable to transformational risks that arise from the reaction of society to climate change, such as technological change, regulation

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and markets that can boost the cost of doing business, threats to the profitability of existing goods, or effects on the value of the asset. Climate change also offers new business opportunities, and it has made research in the context of a

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sustainable financial sector indispensable. The Handbook of Research on Climate Change and the Sustainable Financial Sector focuses on the impacts of climate change on various sectors of the world economy. This book covers

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how businesses can improve their sustainability, the impact of climate change on the financial sector, and specifically, the impacts on financial services, supply chains, and the socio-economic status of the world. Beyond focusing on the impacts to

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the financial industry itself, this book assesses how climate change in the financial sector affects the well-being of society in areas such as unemployment, economic recessions, decreases in consumer purchases, and more. This book is

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essential for stockbrokers, business managers, directors, fund managers, financial analysts, consultants and actuaries, institutional investors, policymakers, practitioners, researchers, academicians, and

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students interested in a comprehensive view of the impact of climate change on the financial sector.

Literacy Skill Development for
Library Science Professionals
First International Conference,

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MIKE 2013, Tamil Nadu, India,
December 18-20, 2013,
Proceedings
Public Policy, Education, and
Global Trends (Volume Ten)

Classification and Clustering in

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Biomedical Signal Processing
Big Data Using Deep Learning
Algorithms

With the increasing use of
information communication
technology in education, new
skills and competencies among

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library science professionals are required for them to effectively disseminate necessary information to users. It is essential to equip educators and students with the requisite digital and information literacy

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competencies. Literacy Skill
Development for Library Science
Professionals provides emerging
research exploring the roles and
applications of information
literacy and technology within
library science and education.

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Featuring coverage on a broad range of topics such as electronic resources, mobile learning, and social media, this book is ideally designed for librarians, information and communication technology

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researchers, academicians, and graduate-level students seeking current research on the ability to find, evaluate, use, and share information in library science.

BIOINFORMATICS AND
MEDICAL APPLICATIONS The

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main topics addressed in this book are big data analytics problems in bioinformatics research such as microarray data analysis, sequence analysis, genomics-based analytics, disease network

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analysis, techniques for big data analytics, and health information technology. Bioinformatics and Medical Applications: Big Data Using Deep Learning Algorithms analyses massive biological datasets using computational

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approaches and the latest cutting-edge technologies to capture and interpret biological data. The book delivers various bioinformatics computational methods used to identify diseases at an early stage by

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assembling cutting-edge resources into a single collection designed to enlighten the reader on topics focusing on computer science, mathematics, and biology. In modern biology and medicine, bioinformatics is

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critical for data management.

This book explains the bioinformatician's important tools and examines how they are used to evaluate biological data and advance disease knowledge.

The editors have curated a

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distinguished group of perceptive and concise chapters that presents the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to healthcare. Applying deep

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learning techniques for data-driven solutions in health information allows automated analysis whose method can be more advantageous in supporting the problems arising from medical and health-related

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information. Audience The primary audience for the book includes specialists, researchers, postgraduates, designers, experts, and engineers, who are occupied with biometric research and security-related issues.

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To provide the necessary security and quality assurance activities into Internet of Things (IoT)-based software development, innovative engineering practices are vital. They must be given an even

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higher level of importance than most other events in the field. Integrating the Internet of Things Into Software Engineering Practices provides research on the integration of IoT into the software development life cycle

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(SDLC) in terms of requirements management, analysis, design, coding, and testing, and provides security and quality assurance activities to IoT-based software development. The content within this publication covers agile

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software, language specification, and collaborative software and is designed for analysts, security experts, IoT software programmers, computer and software engineers, students, professionals, and researchers.

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This book presents soft computing techniques and applications used in healthcare systems, along with the latest advancements. Written as a guide for assessing the roles that these techniques play, the book

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also highlights implementation strategies, lists problem-solving solutions, and paves the way for future research endeavors in smart and next-generation healthcare systems. This book provides applications of soft

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computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles that various techniques, such as machine learning, fuzzy logic, and statical mathematics, play in the

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advancements of smart healthcare systems. The book presents the basics as well as the advanced concepts to help beginners, as well as industry professionals, get up to speed on the latest developments in

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healthcare systems. The book examines descriptive, predictive, and social network techniques and discusses analytical tools and the important role they play in finding solutions to problems in healthcare systems. A

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framework of robust and novel healthcare techniques is highlighted, as well as implementation strategies and a setup for future research endeavors. Healthcare Systems Using Soft Computing

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Techniques is a valuable resource for researchers and postgraduate students in healthcare systems engineering, computer science, information technology, and applied mathematics. The book

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introduces beginners to—and at the same time brings industry professionals up to speed with—the important role soft computing techniques play in smart healthcare systems.

Proceedings of RACCCS 2021

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Handbook of Research on
Climate Change and the
Sustainable Financial Sector
Advances, Challenges and
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Neutrosophic Sets and Systems,
Book Series, Vol. 29, 2019

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Internet of Things

Inventive Systems and Control

***Collection assessment can
be defined as the
systematic quantitative
and qualitative
measurement of the degree***

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*to which a library's
collections meet the
library's goals,
objectives, and the needs
of its users. E-resources
are creating new
challenges for collection*

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assessment, which require that the collection be measured, analyzed, and judged according to specific criteria for relevancy, size, quality, and use. The Handbook of

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***Research on Digital
Content Management and
Development in Modern
Libraries is a critical
scholarly resource that
examines collection
management and quality***

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*within information
services. Featuring a wide
range of topics such as e-
resources, knowledge
management, and consortia,
this book is ideal for
professionals,*

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academicians, academic librarians, researchers, and students in the fields of library and information science, education, computer science, and information technology.

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***Moreover, the book will
provide insights and
support executives
concerned with the
management of expertise,
knowledge, information,
and organizational***

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*development in different
types of work communities
and environments.*

*Rapidly generating and
processing large amounts
of data, supercomputers
are currently at the*

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Leading edge of computing technologies.

Supercomputers are employed in many different fields, establishing them as an integral part of the computational sciences.

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***Research and Applications
in Global Supercomputing
investigates current and
emerging research in the
field, as well as the
application of this
technology to a variety of***

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areas. Highlighting a broad range of concepts, this publication is a comprehensive reference source for professionals, researchers, students, and practitioners interested

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*in the various topics
pertaining to
supercomputing and how
this technology can be
applied to solve problems
in a multitude of
disciplines.*

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This book features high-quality, peer-reviewed papers from the Fourth International Conference on Recent Advancements in Computer, Communication, and Computational Sciences

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***(RACCCS 2021), held at
Aryabhata College of
Engineering and Research
Center, Ajmer, India, on
August 20–21, 2021.
Presenting the latest
developments and technical***

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solutions in computational sciences, it covers a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing

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technologies, advanced software engineering, the web and informatics, and intelligent image processing. As such, it helps those in the computer industry and

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***academia to use the
advances in next-
generation communication
and computational
technology to shape real-
world applications.
Digital transformation***

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***(DT) has become a
buzzword. Every industry
segment across the globe
is consciously jumping
toward digital innovation
and disruption to get
ahead of their***

competitors. In other words, every aspect of running a business is being digitally empowered to reap all the benefits of the digital paradigm. All kinds of digitally

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***enabled businesses across
the globe are
intrinsically capable of
achieving bigger and
better things for their
constituents. Their
consumers, clients, and***

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***customers will realize
immense benefits with real
digital transformation
initiatives and
implementations. The much-
awaited business
transformation can be***

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***easily and elegantly
accomplished with a
workable and winnable
digital transformation
strategy, plan, and
execution. There are
several enablers and***

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***accelerators for realizing
the much-discussed digital
transformation. There are
a lot of digitization and
digitalization
technologies available to
streamline and speed up***

*the process of the
required transformation.
Industrial Internet of
Things (IIoT) technologies
in close association with
decisive advancements in
the artificial*

***intelligence (AI) space
can bring forth the
desired transitions. The
other prominent and
dominant technologies
toward forming digital
organizations include***

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***cloud IT, edge/fog
computing, real-time data
analytics platforms,
blockchain technology,
digital twin paradigm,
virtual and augmented
reality (VR/AR)***

***techniques, enterprise
mobility, and 5G
communication. These
technological innovations
are intrinsically
competent and versatile
enough to fulfill the***

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***varying requirements for
establishing and
sustaining digital
enterprises. Enterprise
Digital Transformation:
Technology, Tools, and Use
Cases features chapters on***

the evolving aspects of digital transformation and intelligence. It covers the unique competencies of digitally transformed enterprises, IIoT use cases, and applications.

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It explains promising technological solutions widely associated with digital innovation and disruption. The book focuses on setting up and sustaining smart factories

*that are fulfilling the
Industry 4.0 vision that
is realized through the
IIoT and allied
technologies.*

*Handbook of Research on
Pattern Engineering System*

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***Development for Big Data
Analytics***

***Handbook of Research on
Emerging Trends and
Applications of Machine
Learning***

21st Century Nanoscience –

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***A Handbook
Intelligent Data
Communication Technologies
and Internet of Things
Ambient Communications and
Computer Systems
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2021

The development of radio-frequency electromagnetic fields for wireless data transmission has presented several new opportunities for sharing, tracking, and

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reading digital
information in various
industries. RFID
Technology Integration for
Business Performance
Improvement presents
emerging research

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surrounding the use and value of Radio Frequency Identification (RFID) technology for cost reduction, supply chain improvement, inventory management, and partner

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relationship management.
This publication is ideal
for use by business
managers, researchers,
academics, and advanced-
level students seeking
research on the management

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strategies, operational techniques, opportunities, and challenges of implementing and using this new technology in a business setting.

"This book examines the

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practical applications and
implementation of various
machine learning
techniques in various
fields such as
agriculture, medical,
image processing, and

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networking"--

Smart Cyber Physical

Systems: Advances,

Challenges and

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9780367337889 Cyber

Physical Systems (CPS) are

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the new generation of collaborative computational entities, with a prime focus on integration of the physical world and cyber space. Through a feedback

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mechanism, the system adapts itself to new conditions in real time. The scope of this book includes research experience by experts in CPS infrastructure

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systems, incorporating sustainability by embedding computing and communication in day-to-day applications. CPS, integrated with Blockchain, Artificial

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Intelligence, Internet of Things, Big Data, Cloud Computing and Communication, lay a foundation for the fourth industrial revolution, Industry 4.0. This book

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will be of immense use to practitioners in industries with a focus on autonomous and adaptive configuration, and on optimization, leading to increased agility,

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elasticity and cost effectiveness. The contributors of this book include renowned academics, industry practitioners and researchers. It offers a

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rigorous introduction to
the theoretical
foundations, techniques
and practical solutions,
through case studies.
Building CPS with
effective communication,

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control, intelligence and security is discussed in terms of societal and research perspectives. The objective of this book is to provide a forum for researchers and

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practitioners to exchange ideas and to achieve progress in CPS by highlighting applications, advances and research challenges. It is highly recommended to be used as

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a reference book for graduate and post-graduate level programmes in universities, with a focus on research in computer science-related courses. IoT is empowered by

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various technologies used to detect, gather, store, act, process, transmit, oversee, and examine information. The combination of emergent technologies for

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information processing and distributed security, such as Cloud computing, Artificial intelligence, and Blockchain, brings new challenges in addressing distributed security

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methods that form the foundation of improved and eventually entirely new products and services. As systems interact with each other, it is essential to have an agreed

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interoperability standard,
which is safe and valid.

This book aims at
providing an introduction
by illustrating state-of-
the-art security
challenges and threats in

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IoT and the latest developments in IoT with Cloud, AI, and Blockchain security challenges. Various application case studies from domains such as science, engineering,

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and healthcare are introduced, along with their architecture and how they leverage various technologies Cloud, AI, and Blockchain. This book provides a comprehensive

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guide to researchers and students to design IoT integrated AI, Cloud, and Blockchain projects and to have an overview of the next generation challenges that may arise in the

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coming years.

Knowledge Mining Using
Intelligent Agents

Cases on Edge Computing
and Analytics

Bioinformatics and Medical
Applications

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Indian Science Abstracts
Applications of Big Data
in Large- and Small-Scale
Systems

This book constitutes the
proceedings of the First
International Conference on

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Computational Intelligence and Information Technology, CIIT 2011, held in Pune, India, in November 2011. The 58 revised full papers, 67 revised short papers, and 32 poster papers presented were carefully reviewed and selected from 483 initial submissions. The papers are

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contributed by innovative academics and industrial experts in the field of computer science, information technology, computational engineering, mobile communication and security and offer a stage to a common forum, where a constructive dialog on

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theoretical concepts, practical ideas and results of the state of the art can be developed.

Advanced techniques in image processing have led to many innovations supporting the medical field, especially in the area of disease diagnosis. Biomedical

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imaging is an essential part of early disease detection and often considered a first step in the proper management of medical pathological conditions.

Classification and Clustering in Biomedical Signal Processing focuses on existing and proposed

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methods for medical imaging, signal processing, and analysis for the purposes of diagnosing and monitoring patient conditions. Featuring the most recent empirical research findings in the areas of signal processing for biomedical applications with an emphasis on

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classification and clustering techniques, this essential publication is designed for use by medical professionals, IT developers, and advanced-level graduate students.