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Data Networking
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Big Data Networking Springer

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

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*Conference on
Big Data,
Machine
Learning, and
Applications,
BigDML 2019,
held in Silchar,
India, in
December. The 6
full papers and
3 short papers
were carefully
reviewed and
selected from*

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*152 submissions.
The papers
present research
on such topics
as computing
methodology;
machine
learning;
artificial
intelligence;
information
systems;
security and
privacy.*

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*This book
presents a
detailed review
of high-
performance
computing
infrastructures
for next-
generation big
data and fast
data analytics.
Features:
includes case
studies and*

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*learning
activities
throughout the
book and self-
study exercises
in every
chapter;
presents
detailed case
studies on
social media
analytics for
intelligent
businesses and*

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*on big data
analytics (BDA)
in the
healthcare
sector;
describes the
network
infrastructure
requirements for
effective
transfer of big
data, and the
storage
infrastructure*

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*requirements of
applications
which generate
big data;
examines real-
time analytics
solutions;
introduces in-
database
processing and
in-memory
analytics
techniques for
data mining;*

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*discusses the
use of
mainframes for
handling real-
time big data
and the latest
types of data
management
systems for BDA;
provides
information on
the use of
cluster, grid
and cloud*

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*computing
systems for BDA;
reviews the peer-
to-peer
techniques and
tools and the
common
information
visualization
techniques, used
in BDA.*

*This edited book
provides
techniques which*

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address various aspects of big data collection and analysis from social media platforms and beyond. It covers efficient compression of large networks, link prediction in hashtag graphs, visual exploration of

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*social media
data,
identifying
motifs in
multivariate
data, social
media
surveillance to
enhance search
and rescue
missions,
recommenders for
collaborative
filtering and*

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*safe travel
plans to high
risk
destinations,
analysis of
cyber influence
campaigns on
YouTube, impact
of location on
business rating,
bibliographical
and co-
authorship
network*

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*analysis, and
blog data
analytics. All
these trending
topics form a
major part of
the state of the
art in social
media and big
data analytics.
Thus, this
edited book may
be considered as
a valuable*

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*source for
readers
interested in
grasping some of
the most recent
advancements in
this high
trending domain.
This book
reports on the
latest advances
in mobile
technologies for
collecting,*

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Springer

*storing and
processing
mobile big data
in connection
with wireless
communications.
It presents
novel approaches
and applications
in which mobile
big data is
being applied
from an
engineering*

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Springer

standpoint and addresses future theoretical and practical challenges related to the big data field from a mobility perspective. Further, it provides an overview of new methodologies designed to take

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*mobile big data
to the Cloud,
enable the
processing of
real-time
streaming events
on-the-move and
enhance the
integration of
resource
availability
through the
'Anywhere,
Anything,*

Read Book Big
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Springer,

Anytime'
paradigm. By
providing both
academia and
industry
researchers and
professionals
with a timely
snapshot of
emerging mobile
big data-centric
systems and
highlighting
related

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pitfalls, as well as potential solutions, the book fills an important gap in the literature and fosters the further development in the area of mobile technologies for exploiting

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mobile big data.

Digital

Innovations in

Surface and Air

Transport

Systems

Big Data for the

Greater Good

Big Data and

Networks

Technologies

Personalized

Privacy

Protection in

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*Big Data
Intelligent
Edge, Fog and
Mist Computing
Trending
Applications
Big Data to
Improve
Strategic
Network Planning
in Airlines*

This book presents
current progress on

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challenges related to Big Data management by focusing on the particular challenges associated with context-aware data-intensive applications and services. The book is a state-of-the-art reference discussing progress made, as well as

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prompting future directions on the theories, practices, standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning

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for organizational settings including both business and e-science. Apart from inter-operable and inter-cooperative aspects, the book deals with a notable opportunity namely, the current trend in which a collectively shared and generated content is emerged

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from Internet end-users. Specifically, the book presents advances on managing and exploiting the vast size of data generated from within the smart environment (i.e. smart cities) towards an integrated, collective intelligence approach. The book

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also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications. The book contains 19 self-contained chapters that were very carefully selected based on peer review

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by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities: Section I: Foundations and Principles Section II: Advanced Models and Architectures Section

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III: Advanced

Applications and
Future Trends The
book is intended for
researchers interested
in joining
interdisciplinary and
transdisciplinary
works in the areas of
Smart Environments,
Internet of Things
and various
computational

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technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era. This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT

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(ICCBI 2020),
organized by Vaigai
College Engineering,
Madurai, Tamil
Nadu, India, during
15–16 December
2020. The book
covers original papers
on computer
networks, network
protocols and wireless
networks, data
communication

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technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.

This book constitutes

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the refereed post-conference proceedings of the 15th International Conference on Body Area Networks, BodyNets 2020, held in Tallinn, Estonia, in October 2020. The conference was held virtually due to the COVID-19 pandemic. The 15

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papers presented were selected from 30 submissions and issue new technologies to provide trustable measuring and communications mechanisms from the data source to medical health databases. Wireless body area networks (WBAN) are one

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major element in this process. Not only on-body devices but also technologies providing information from inside a body are in the focus of this conference.

Dependable communications combined with accurate localization and behavior analysis

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will benefit WBAN technology and make the healthcare processes more effective.

This book introduces the latest research findings in cloud, edge, fog, and mist computing and their applications in various fields using geospatial data. It

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solves a number of problems of cloud computing and big data, such as scheduling, security issues using different techniques, which researchers from industry and academia have been attempting to solve in virtual environments. Some of these

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problems are of an intractable nature and so efficient technologies like fog, edge and mist computing play an important role in addressing these issues. By exploring emerging advances in cloud computing and big data analytics and their engineering

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applications, the book enables researchers to understand the mechanisms needed to implement cloud, edge, fog, and mist computing in their own endeavours, and motivates them to examine their own research findings and developments.

Big Data Applications
Page 38/216

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and Use Cases

Data Science and Big
Data Computing
Body Area Networks.
Smart IoT and Big
Data for Intelligent
Health

Proceedings of the
2018 Future of
Information and
Communication
Conference (FICC),

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Vol. 1

Encyclopedia of Big
Data

Cloud Computing for
Geospatial Big Data
Analytics

*This book presents the
data privacy protection
which has been
extensively applied in our
current era of big data.
However, research into
big data privacy is still in*

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its infancy. Given the fact that existing protection methods can result in low data utility and unbalanced trade-offs, personalized privacy protection has become a rapidly expanding research topic. In this book, the authors explore emerging threats and existing privacy protection methods, and discuss in

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detail both the advantages and disadvantages of personalized privacy protection. Traditional methods, such as differential privacy and cryptography, are discussed using a comparative and intersectional approach, and are contrasted with emerging methods like federated learning and

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generative adversarial nets. The advances discussed cover various applications, e.g. cyber-physical systems, social networks, and location-based services. Given its scope, the book is of interest to scientists, policy-makers, researchers, and postgraduates alike. This book highlights state-of-the-art research on

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big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments.

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Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload,

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retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer.

Further, the book

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discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as

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health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design.

Intended as a

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comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

This book provides a review of advanced topics relating to the theory, research, analysis

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and implementation in the context of big data platforms and their applications, with a focus on methods, techniques, and performance evaluation. The explosive growth in the volume, speed, and variety of data being produced every day requires a continuous increase in the processing speeds of servers and of

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entire network

*infrastructures, as well
as new resource
management models.*

*This poses significant
challenges (and provides
striking development
opportunities) for data
intensive and high-
performance computing,
i.e., how to efficiently
turn extremely large
datasets into valuable
information and*

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meaningful knowledge. The task of context data management is further complicated by the variety of sources such data derives from, resulting in different data formats, with varying storage, transformation, delivery, and archiving requirements. At the same time rapid responses are needed for

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real-time applications.

With the emergence of cloud infrastructures, achieving highly scalable data management in such contexts is a critical problem, as the overall application performance is highly dependent on the properties of the data management service.

The book offers a timely snapshot of neural network technologies as a

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*significant component of
big data analytics
platforms. It promotes
new advances and
research directions in
efficient and innovative
algorithmic approaches
to analyzing big data
(e.g. deep networks,
nature-inspired and
brain-inspired
algorithms);
implementations on
different computing*

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platforms (e.g. neuromorphic, graphics processing units (GPUs), clouds, clusters); and big data analytics applications to solve real-world problems (e.g. weather prediction, transportation, energy management). The book, which reports on the second edition of the INNS Conference on Big Data, held on October

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23–25, 2016, in

Thessaloniki, Greece,

depicts an interesting

collaborative adventure

of neural networks with

big data and other

learning technologies.

Data Science and Big

Data Analytics

Data Science for Social

Good

A Roadmap from

Models to Technologies

Digital Political

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Springer

*Participation, Social
Networks and Big Data
Data Science and
Security*

*Big Data and Security
Big Data Platforms and
Applications*

The Encyclopedia of
Big Data Technologies
provides researchers,
educators, students
and industry
professionals with a
comprehensive

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authority over the most relevant Big Data Technology concepts. With over 300 articles written by worldwide subject matter experts from both industry and academia, the encyclopedia covers topics such as big data storage systems, NoSQL database, cloud computing,

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distributed systems,
data processing, data
management,
machine learning and
social technologies,
data science. Each
peer-reviewed, highly
structured entry
provides the reader
with basic
terminology, subject
overviews, key
research results,
application examples,

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future directions, cross references and a bibliography. The entries are expository and tutorial, making this reference a practical resource for students, academics, or professionals. In addition, the distinguished, international editorial board of the encyclopedia consists

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of well-respected
scholars, each
developing topics
based upon their
expertise.

Big Data and
Networks

Technologies Springer

This book constitutes
the refereed

proceedings of the

5th International

Conference on Soft

Computing in Data

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Science, SCDS 2019, held in Iizuka, Japan, in August 2019. The 30 revised full papers presented were carefully reviewed and selected from 75 submissions. The papers are organized in topical sections on information and customer analytics; visual data science; machine and deep

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learning; big data
analytics;
computational and
artificial intelligence;
social network and
media analytics.

This book presents
the best-selected
papers presented at
the International
Conference on Data
Science, Computation
and Security
(IDSCS-2021),

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organized by the
Department of Data
Science, CHRIST
(Deemed to be
University), Pune
Lavasa Campus, India,
during April 16–17,
2021. The proceeding
is targeting the
current research
works in the areas of
data science, data
security, data
analytics, artificial

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intelligence, machine learning, computer vision, algorithms design, computer networking, data mining, big data, text mining, knowledge representation, soft computing, and cloud computing.

Handbook of Big Data
Technologies
Proceedings of IDSCS
2021

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Springer

Proceedings of the
INNS Big Data and
Deep Learning
Conference
INNSBDDL2019, held
at Sestri Levante,
Genova, Italy 16-18
April 2019
Big Data Concepts,
Theories, and
Applications
Proceedings of the
2nd INNS Conference
on Big Data, October

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Springer

23-25, 2016,

Thessaloniki, Greece

Network Data

Analytics

Philanthropy and

Social Impact in a

Complex World

In order to carry out

data analytics, we

need powerful and

flexible computing

software. However

the software available

for data analytics is

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often proprietary and can be expensive.

This book reviews Apache tools, which are open source and easy to use. After providing an overview of the background of data analytics, covering the different types of analysis and the basics of using Hadoop as a tool, it focuses on different

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Hadoop ecosystem tools, like Apache Flume, Apache Spark, Apache Storm, Apache Hive, R, and Python, which can be used for different types of analysis. It then examines the different machine learning techniques that are useful for data analytics, and how to visualize data

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with different graphs
and charts.

Presenting data
analytics from a
practice-oriented
viewpoint, the book
discusses useful tools
and approaches for
data analytics,
supported by concrete
code examples. The
book is a valuable
reference resource for
graduate students

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and professionals in related fields, and is also of interest to general readers with an understanding of data analytics.

This book constitutes the refereed proceedings of the Second International Conference on Big Data and Security, ICBDS 2020, held in Singapore,

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Singapore, in
December 2020. The
44 revised full papers
and 8 short papers
were carefully
reviewed and
selected out of 153
submissions. The
papers included in
this book are
organized according
to the topical sections
on cybersecurity and
privacy, big data,

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blockchain and
internet of things, and
artificial intelligence/
machine learning
security.

This book explores
the changes in
political
communication in light
of the development of
a public opinion
mediated by web 2.0
technologies. One of
the most important

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changes in political communication is related to the process of disintermediation, i.e. the process by which digital technologies allow citizens to compete in the public space with those agents who, traditionally, co-opted public opinion. However, while disintermediation has

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undeniably generated a number of advances, having linked citizens to the public debate, the authors highlight some aspects where disintermediation is moving away from a rational and inclusive public space. They argue that these aspects, related to the immediacy,

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polarization and incivility of the communication, obscure the possibilities for democratization of digital political communication.

This book constitutes the proceedings of the 9th International Conference on Big Data, BigData 2020, held as part of SCF

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2020, during
September 18-20,
2020. The conference
was planned to take
place in Honolulu, HI,
USA and was
changed to a virtual
format due to the
COVID-19 pandemic.
The 16 full and 3
short papers
presented were
carefully reviewed
and selected from 52

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submissions. The topics covered are Big Data Architecture, Big Data Modeling, Big Data As A Service, Big Data for Vertical Industries (Government, Healthcare, etc.), Big Data Analytics, Big Data Toolkits, Big Data Open Platforms, Economic Analysis, Big Data for

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Enterprise

Transformation, Big

Data in Business

Performance

Management, Big

Data for Business

Model Innovations

and Analytics, Big

Data in Enterprise

Management Models

and Practices, Big

Data in Government

Management Models

and Practices, and

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Big Data in Smart
Planet Solutions.
15th EAI International
Conference,
BODYNETS 2020,
Tallinn, Estonia,
October 21, 2020,
Proceedings
Recent Advances in
Big Data and Deep
Learning
Big Data and Social
Media Analytics
Data Science

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Foundations of Data
Science Based
Healthcare Internet of
Things
Advances in
Information and
Communication
Networks
A Primer
The book,
gathering the
proceedings of
the Future of

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Information
and
Communication
Conference
(FICC) 2018,
is a
remarkable
collection of
chapters
covering a
wide range of
topics in

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areas of
information
and
communication
technologies
and their
applications
to the real
world. It
includes 104
papers and
posters by

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pioneering
academic
researchers,
scientists,
industrial
engineers, and
students from
all around the
world, which
contribute to
our
understanding

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of relevant
trends of
current
research on
communication,
data science,
ambient
intelligence,
networking,
computing,
security and
Internet of

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Things. This book collects state of the art chapters on all aspects of information science and communication technologies, from classical to intelligent,

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and covers
both theory
and
applications
of the latest
technologies
and
methodologies.
Presenting sta
te-of-the-art
intelligent
methods and

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techniques for solving real-world problems along with a vision of the future research, this book is an interesting and useful resource. This

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Springer

illuminating
text/reference
surveys the
state of the
art in data
science, and
provides
practical
guidance on
big data
analytics.
Expert

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Springer

perspectives
are provided
by
authoritative
researchers
and
practitioners
from around
the world,
discussing
research
developments

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and emerging trends, presenting case studies on helpful frameworks and innovative methodologies, and suggesting best practices for efficient and effective

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data

analytics.

Features:

reviews a

framework for

fast data

applications,

a technique

for complex

event

processing,

and

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agglomerative
approaches for
the
partitioning
of networks;
introduces a
unified
approach to
data modeling
and
management,
and a

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distributed
computing
perspective on
interfacing
physical and
cyber worlds;
presents
techniques for
machine
learning for
big data, and
identifying

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duplicate
records in
data
repositories;
examines
enabling
technologies
and tools for
data mining;
proposes
frameworks for
data

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extraction,
and adaptive
decision
making and
social media
analysis.

This handbook
brings
together a
variety of
approaches to
the uses of

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big data in
multiple
fields,
primarily
science,
medicine, and
business. This
single
resource
features
contributions
from

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researchers
around the
world from a
variety of
fields, where
they share
their findings
and
experience.
This book is
intended to
help spur

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Springer

further
innovation in
big data. The
research is
presented in a
way that
allows
readers,
regardless of
their field of
study, to
learn from how

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applications
have proven
successful and
how similar
applications
could be used
in their own
field.

Contributions
stem from
researchers in
fields such as

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physics,
biology,
energy,
healthcare,
and business.

The
contributors
also discuss
important
topics such as
fraud
detection,

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privacy
implications,
legal
perspectives,
and ethical
handling of
big data.

This book
constitutes
the refereed
proceedings of
the 7th

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International
Conference on
Information
Management and
Big Data,
SIMBig 2020,
held in Lima,
Peru, in
October 2020.*
The 32 revised
full papers
and 7 revised

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short papers
presented were
carefully
reviewed and
selected from
122
submissions.
The papers
address topics
such as
natural
language

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processing and
text mining;
machine
learning;
image
processing;
social
networks; data-
driven
software
engineering;
graph mining;

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and Semantic
Web,
repositories,
and
visualization.

*The
conference was
held
virtually.

Big Data
Mobile Big
Data

Read Book Big
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Springer
Frameworks and
Methodologies
9th
International
Conference,
Held as Part
of the
Services
Conference
Federation,
SCF 2020,
Honolulu, HI,

Read Book Big
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Springer

USA, September
18-20, 2020,
Proceedings
Second
International
Conference,
ICBDS 2020,
Singapore,
Singapore,
December
20-22, 2020,
Revised

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Springer

Selected
Papers
Case Studies,
Methods,
Techniques,
and
Performance
Evaluation
Computing
Systems and
Approaches

This book

Page 109/216

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gathers the
outcomes of
the second
ECCOMAS CM3
Conference
series on
transport,
which
addressed the
main
challenges and
opportunities

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that

computation
and big data
represent for
transport and
mobility in
the
automotive,
logistics,
aeronautics
and marine-
maritime

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fields.

Through a series of plenary lectures and mini-forums with lectures followed by question-and-answer sessions, the conference

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explored
potential
solutions and
innovations to
improve
transport and
mobility in
surface and
air
applications.
The book seeks
to answer the

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question of
how
computational
research in
transport can
provide
innovative
solutions to
Green
Transportation
challenges
identified in

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the ambitious
Horizon 2020
program. In
particular,
the respective
papers present
the state of
the art in
transport
modeling,
simulation and
optimization

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in the fields
of maritime,
aeronautics,
automotive and
logistics
research. In
addition, the
content
includes two
white papers
on transport
challenges and

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prospects.

Given its
scope, the
book will be
of interest to
students,
researchers,
engineers and
practitioners
whose work
involves the
implementation

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Springer**

of Intelligent
Transport
Systems (ITS)
software for
the optimal
use of roads,
including
safety and
security,
traffic and
travel data,
surface and

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air traffic
management,
and freight
logistics.

This book
offers a basic
understanding
of the
Internet of
Things (IoT),
its design
issues and

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challenges for
healthcare
applications.

It also
provides
details of the
challenges of
healthcare big
data, role of
big data in
healthcare and
techniques,

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and tools for
IoT in
healthcare.
This book
offers a
strong
foundation to
a beginner.
All technical
details that
include
healthcare

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data

collection

unit,

technologies

and tools used

for the big

data analytics

implementation

are explained

in a clear and

organized

format.

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This book targets an audience with a basic understanding of deep learning, its architectures, and its application in the multimedia domain.

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Background in machine learning is helpful in exploring various aspects of deep learning. Deep learning models have a major impact on multimedia

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research and
raised the
performance
bar

substantially
in many of the
standard
evaluations.

Moreover, new
multi-modal
challenges are
tackled, which

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older systems would not have been able to handle.

However, it is very difficult to comprehend, let alone guide, the process of learning in deep neural

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networks,
there is an
air of
uncertainty
about exactly
what and how
these networks
learn. By the
end of the
book, the
readers will
have an

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understanding
of different
deep learning
approaches,
models, pre-
trained
models, and
familiarity
with the
implementation
of various
deep learning

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algorithms
using various
frameworks and
libraries.

This book
presents
conjectural
advances in
big data
analysis,
machine
learning and

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computational intelligence, as well as their potential applications in scientific computing. It discusses major issues pertaining to big data

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analysis using
computational
intelligence
techniques,
and the
conjectural
elements are
supported by
simulation and
modelling
applications
to help

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address real-world problems. An extensive bibliography is provided at the end of each chapter. Further, the main content is supplemented

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by a wealth of
figures,
graphs, and
tables,
offering a
valuable guide
for
researchers in
the field of
big data
analytics and
computational

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intelligence.

A Hands-On

Approach for

Application

Development

First

International

Conference,

BigDML 2019,

Silchar,

India,

December

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16-19, 2019,

Revised

Selected

Papers

Proceedings of

ICBDCC 2019

Theory,

Algorithms,

and

Applications

Guide to Big

Data

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Applications

ACM-WIR 2018

Big Data

Technologies

and

Applications

**This book covers
three major parts of
Big Data: concepts,
theories and
applications. Written
by world-renowned**

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leaders in Big Data, this book explores the problems, possible solutions and directions for Big Data in research and practice. It also focuses on high level concepts such as definitions of Big Data from different angles; surveys in

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research and applications; and existing tools, mechanisms, and systems in practice. Each chapter is independent from the other chapters, allowing users to read any chapter directly. After examining the

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practical side of Big
Data, this book
presents theoretical
perspectives. The
theoretical research
ranges from Big
Data representation,
modeling and
topology to
distribution and
dimension reducing.
Chapters also

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investigate the many disciplines that involve Big Data, such as statistics, data mining, machine learning, networking, algorithms, security and differential geometry. The last section of this book introduces Big Data

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applications from
different
communities, such as
business, engineering
and science. Big
Data Concepts,
Theories and
Applications is
designed as a
reference for
researchers and
advanced level

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students in computer science, electrical engineering and mathematics.

Practitioners who focus on information systems, big data, data mining, business analysis and other related fields will also find this material valuable.

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The objective of this book is to introduce the basic concepts of big data computing and then to describe the total solution of big data problems using HPCC, an open-source computing platform. The book comprises 15 chapters broken

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into three parts. The first part, Big Data Technologies, includes introductions to big data concepts and techniques; big data analytics; and visualization and learning techniques. The second part, LexisNexis Risk

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Solution to Big Data,
focuses on specific
technologies and
techniques
developed at
LexisNexis to solve
critical problems that
use big data
analytics. It covers
the open source High
Performance
Computing Cluster

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Springer

(HPCC Systems®)
platform and its
architecture, as well
as parallel data
languages ECL and
KEL, developed to
effectively solve big
data problems. The
third part, Big Data
Applications,
describes various
data intensive

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applications solved
on HPC Systems. It
includes applications
such as cyber
security, social
network analytics
including fraud,
Ebola spread
modeling using big
data analytics,
unsupervised
learning, and image

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classification. The book is intended for a wide variety of people including researchers, scientists, programmers, engineers, designers, developers, educators, and students. This book can also be

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beneficial for
business managers,
entrepreneurs, and
investors.

This book reviews
the state of the art in
big data analysis and
networks
technologies. It
addresses a range of
issues that pertain to:
signal processing,

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probability models,
machine learning,
data mining,
databases, data
engineering, pattern
recognition,
visualization,
predictive analytics,
data warehousing,
data compression,
computer
programming, smart

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cities, networks
technologies, etc.

Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. In turn, data science inspires novel techniques and theories drawn from

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mathematics,
statistics,
information theory,
computer science,
and the social
sciences. All papers
presented here are
the product of
extensive field
research involving
applications and
techniques related to

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data analysis in general, and to big data and networks technologies in particular. Given its scope, the book will appeal to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial

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researchers, as well
general readers
interested in big data
analysis and
networks
technologies.

This book is a
compendium of the
proceedings of the
International
Conference on Big-
Data and Cloud

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Computing. The papers discuss the recent advances in the areas of big data analytics, data analytics in cloud, smart cities and grid, etc. This volume primarily focuses on the application of knowledge which promotes ideas for

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solving problems of the society through cutting-edge big-data technologies. The essays featured in this proceeding provide novel ideas that contribute for the growth of world class research and development. It will be useful to

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researchers in the
area of advanced
engineering sciences.
Computation and Big
Data for Transport
Computer Networks,
Big Data and IoT
High-Performance
Big-Data Analytics
Disintermediation in
the Era of Web 2.0
Soft Computing in

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Data Science

5th International

Conference, SCDS

2019, Iizuka, Japan,

August 28-29, 2019,

Proceedings

Encyclopedia of Big

Data Technologies

This book

presents the

original articles

that have been

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accepted in the
2019 INNS Big
Data and Deep
Learning (INNS
BDDL)

international
conference, a
major event for
researchers in the
field of artificial
neural networks,
big data and
related topics,

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organized by the
International
Neural Network
Society and
hosted by the
University of
Genoa. In 2019
INNS BDDL has
been held in Sestri
Levante (Italy)
from April 16 to
April 18. More than
80 researchers

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from 20 countries participated in the INNS BDDL in April 2019. In addition to regular sessions, INNS BDDL welcomed around 40 oral communications, 6 tutorials have been presented together with 4 invited plenary speakers.

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This book covers a broad range of topics in big data and deep learning, from theoretical aspects to state-of-the-art applications. This book is directed to both Ph.D. students and Researchers in the field in order to

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provide a general picture of the state-of-the-art on the topics addressed by the conference.

This book highlights some of the most fascinating current uses, thought-provoking changes, and biggest challenges

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that Big Data means for our society. The explosive growth of data and advances in Big Data analytics have created a new frontier for innovation, competition, productivity, and well-being in

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almost every
sector of our
society, as well as
a source of
immense
economic and
societal value.
From the
derivation of
customer feedback-
based insights to
fraud detection
and preserving

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privacy; better
medical
treatments;
agriculture and
food management;
and establishing
low-voltage
networks – many
innovations for the
greater good can
stem from Big
Data. Given the
insights it

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provides, this book will be of interest to both researchers in the field of Big Data, and practitioners from various fields who intend to apply Big Data technologies to improve their strategic and operational

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decision-making
processes.

This handbook
offers

comprehensive
coverage of recent
advancements in

Big Data

technologies and
related paradigms.

Chapters are
authored by
international

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leading experts in the field, and have been reviewed and revised for maximum reader value. The volume consists of twenty-five chapters organized into four main parts. Part one covers the fundamental concepts of Big

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Data technologies including data curation mechanisms, data models, storage models, programming models and programming platforms. It also dives into the details of implementing Big

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SQL query engines and big stream processing systems. Part Two focuses on the semantic aspects of Big Data management including data integration and exploratory ad hoc analysis in addition to

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structured
querying and
pattern matching
techniques. Part
Three presents a
comprehensive
overview of large
scale graph
processing. It
covers the most
recent research in
large scale graph
processing

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platforms,
introducing
several scalable
graph querying
and mining
mechanisms in
domains such as
social networks.
Part Four details
novel applications
that have been
made possible by
the rapid

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emergence of Big
Data technologies
such as Internet-of-
Things (IOT),
Cognitive
Computing and
SCADA Systems.
All parts of the
book discuss open
research
problems,
including potential
opportunities, that

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have arisen from the rapid progress of Big Data technologies and the associated increasing requirements of application domains.

Designed for researchers, IT professionals and graduate students,

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this book is a
timely contribution
to the growing Big
Data field. Big Data
has been
recognized as one
of leading
emerging
technologies that
will have a major
contribution and
impact on the
various fields of

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science and varies
aspect of the
human society
over the coming
decades.

Therefore, the
content in this
book will be an
essential tool to
help readers
understand the
development and
future of the field.

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This book is a collection of chapters written by experts on various aspects of big data. The book aims to explain what big data is and how it is stored and used. The book starts from the fundamentals and

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builds up from there. It is intended to serve as a review of the state-of-the-practice in the field of big data handling. The traditional framework of relational databases can no longer provide

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appropriate solutions for handling big data and making it available and useful to users scattered around the globe. The study of big data covers a wide range of issues including management of

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heterogeneous
data, big data
frameworks,
change
management,
finding patterns in
data usage and
evolution, data as
a service, service-
generated data,
service
management,
privacy and

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security. All of these aspects are touched upon in this book. It also discusses big data applications in different domains. The book will prove useful to students, researchers, and practicing database and

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networking
engineers.

Big Data – BigData
2020

Intelligence in Big
Data Technologies
—Beyond the Hype

Big Data and
Internet of Things:

A Roadmap for
Smart

Environments

7th Annual

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Springer

International
Conference,
SIMBig 2020, Lima,
Peru, October 1-3,
2020, Proceedings
Internet of Things
and Big Data
Analytics Toward
Next-Generation
Intelligence
Proceedings of
ICCBI 2020
Information

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Management and
Big Data

This book provides
a comprehensive
picture of mobile
big data starting
from data sources
to mobile data
driven applications.
Mobile Big Data
comprises two
main components:

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an overview of mobile big data, and the case studies based on real-world data recently collected by one of the largest mobile network carriers in China. In the first component, four areas of mobile big

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data life cycle are surveyed: data source and collection, transmission, computing platform and applications. In the second component, two case studies are provided, based on the signaling data

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collected in the
cellular core
network in terms of
subscriber privacy
evaluation and
demand
forecasting for
network
management.
These cases
respectively give a
vivid demonstration

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of what mobile big data looks like, and how it can be analyzed and mined to generate useful and meaningful information and knowledge. This book targets researchers, practitioners and

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professors relevant
to this field.

Advanced-level
students studying
computer science
and electrical
engineering will
also be interested
in this book as
supplemental
reading.

Big data has

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become an
important success
driver in airline
network planning.
Maximilian
Schosser explores
the status quo of
network planning
across a case
study group
consisting of nine
airlines

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representing
different business
models. The author
describes 23 big
data opportunities
for airline network
planning and
evaluates them
based on their
specific value
contribution for
airline network

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planning.

Subsequently, he develops a financial evaluation methodology for big data opportunities based on key performance indicators for airline network planning departments.

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This encyclopedia will be an essential resource for our times, reflecting the fact that we currently are living in an expanding data-driven world. Technological advancements and other related trends are contributing to

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the production of
an astoundingly
large and
exponentially
increasing
collection of data
and information,
referred to in
popular vernacular
as “Big Data.”
Social media and
crowdsourcing

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platforms and various applications — “apps” — are producing reams of information from the instantaneous transactions and input of millions and millions of people around the globe. The Internet-

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of-Things (IoT), which is expected to comprise tens of billions of objects by the end of this decade, is actively sensing real-time intelligence on nearly every aspect of our lives and environment. The Global Positioning

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System (GPS) and other location-aware technologies are producing data that is specific down to particular latitude and longitude coordinates and seconds of the day. Large-scale instruments, such

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as the Large
Hadron Collider
(LHC), are
collecting massive
amounts of data on
our planet and
even distant
corners of the
visible universe.
Digitization is being
used to convert
large collections of

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documents from
print to digital
format, giving rise
to large archives of
unstructured data.
Innovations in
technology, in the
areas of Cloud and
molecular
computing,
Artificial Intelligenc
e/Machine

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Learning, and
Natural Language
Processing (NLP),
to name only a few,
also are greatly
expanding our
capacity to store,
manage, and
process Big Data.
In this context, the
Encyclopedia of
Big Data is being

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offered in
recognition of a
world that is rapidly
moving from
gigabytes to
terabytes to
petabytes and
beyond. While
indeed large data
sets have long
been around and in
use in a variety of

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fields, the era of
Big Data in which
we now live
departs from the
past in a number of
key respects and
with this departure
comes a fresh set
of challenges and
opportunities that
cut across and
affect multiple

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sectors and disciplines, and the public at large. With expanded analytical capacities at hand, Big Data is now being used for scientific inquiry and experimentation in nearly every (if not

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all) disciplines,
from the social
sciences to the
humanities to the
natural sciences,
and more.

Moreover, the use
of Big Data has
been well
established beyond
the Ivory Tower. In
today's economy,

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businesses simply cannot be competitive without engaging Big Data in one way or another in support of operations, management, planning, or simply basic hiring decisions. In all levels of

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government, Big Data is being used to engage citizens and to guide policy making in pursuit of the interests of the public and society in general.

Moreover, the changing nature of Big Data also raises new issues

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and concerns related to, for example, privacy, liability, security, access, and even the veracity of the data itself. Given the complex issues attending Big Data, there is a real need for a reference book that covers

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the subject from a multi-disciplinary, cross-sectoral, comprehensive, and international perspective. The Encyclopedia of Big Data will address this need and will be the first of such reference books to do so.

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Featuring some 500 entries, from "Access" to "Zillow," the Encyclopedia will serve as a fundamental resource for researchers and students, for decision makers and leaders, and

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for business
analysts and
purveyors.

Developed for
those in academia,
industry, and
government, and
others with a
general interest in
Big Data, the
encyclopedia will
be aimed

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especially at those
involved in its
collection, analysis,
and use.

Ultimately, the
Encyclopedia of
Big Data will
provide a common
platform and
language covering
the breadth and
depth of the topic

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for different
segments, sectors,
and disciplines.

This book presents
different use cases
in big data
applications and
related practical
experiences. Many
businesses today
are increasingly
interested in

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utilizing big data technologies for supporting their business intelligence so that it is becoming more and more important to understand the various practical issues from different practical use cases. This

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book provides clear proof that big data technologies are playing an ever increasing important and critical role in a new cross-discipline research between computer science and business.

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Big Data, Machine
Learning, and
Applications
Advances in Big
Data