

Online Library
Cloud Computing
Data Intensive
Cloud
Computing And
Scheduling
Chapman Hallcrc
Data
Numerical
Intensive
Analysis And
Computing
Computing Series
And
Scheduling
Chapman

Online Library
Cloud Computing
Hallcrc
Data Intensive
Numerical
Computing And
Analysis And
Scientific
Chapman Hallcrc
Computing
Numerical
Series And

**Data-intensive
systems are
software**
Computing Series

Online Library
Cloud Computing

Data Intensive
**applications
that process
and generate
Big Data. Data-
intensive**

**systems support
the use of large
amounts of data
strategically
and efficiently
to provide
intelligence.**

For example,

Online Library
Cloud Computing
Data Intensive
examining
Computing And
industrial
Scheduling
sensor data or
Chapman Hallcrc
business
Numerical
process data
Analysis And
can enhance
Simulation
production,
Computing Series
guide proactive
improvements
of development
processes, or
optimize supply
chain systems.

Online Library
Cloud Computing
Data Intensive
**Designing data-
intensive
software
systems is
difficult
because
distribution of
knowledge
across
stakeholders
creates a
symmetry of
ignorance,**

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Computing Series

**because a
shared vision of
the future
requires the
development of
new knowledge
that extends
and synthesizes
existing
knowledge.
Knowledge
Management in
the**

Online Library
Cloud Computing
Data Intensive
**Development of
Computing And
Data-Intensive
Scheduling
Systems**
Chapman Hallerc
Numerical
Analysis
Series
Computing Series
the
development of
data-intensive
software
systems. These

Online Library
Cloud Computing
Data Intensive
challenges
concern
requirements,
architectural
design, detailed
design, And
implementation
and
maintenance.

The book covers
the current
state and future
directions of

Online Library
Cloud Computing
Data Intensive
**knowledge
management in
development of
data-intensive
software
systems. The
book features
both academic
and industrial
contributions
which discuss
the role
software**

Online Library
Cloud Computing
Data Intensive
**engineering can
play for
addressing
challenges that
confront
developing,
maintaining
and evolving sys
tems; data-
intensive
software
systems of
cloud and**

Online Library
Cloud Computing
Data Intensive
**mobile services;
and the
scalability
requirements
they imply. The
book features
software
engineering
approaches that
can efficiently
deal with data-
intensive
systems as well**

Online Library
Cloud Computing
Data Intensive
**as applications
and use cases
benefiting from
data-intensive
systems.**

**Providing a
comprehensive
reference on
the notion of
data-intensive
systems from a
technical and
non-technical**

Online Library
Cloud Computing
Data Intensive
**perspective, the
book focuses
uniquely on
software
engineering
and knowledge
management in
the design and
maintenance of
data-intensive
systems. The
book covers
constructing,**

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Software And
Scientific
Computing Series

**deploying, and
maintaining
high quality
software
products and
software
engineering in
and for dynamic
and flexible
environments.**

**This book
provides a
holistic guide**

Online Library
Cloud Computing
Data Intensive
**for those who
need to
understand the
impact of
variability on
all aspects of
the software life
cycle. It
leverages
practical
experience and
evidence to look
ahead at the**

Online Library
Cloud Computing
Data Intensive
challenges
Computing And
faced by
Scheduling
organizations in
Chappan Hallerc
a fast-moving
Numerical
world with
Arithmetic
increasingly
Computing Series
fast-changing
Computing Series
customer
requirements
and
expectations.
If you're
involved in

Online Library
Cloud Computing

Data Intensive
**planning IT
infrastructure
as a network or
system
architect,
system
administrator,
or developer,
this book will
help you adapt
your skills to
work with these
highly scalable,**

Online Library
Cloud Computing
Data Intensive
highly
Computing And
redundant
Scheduling
infrastructure
Charmant Halls
services. While
Numerical
analysts hotly
Adapted
debate the
Scientific
advantages and
Computing Series
risks of cloud
computing, IT
staff and
programmers
are left to
determine

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis
Scientific
Computing Series

**whether and
how to put their
applications
into these
virtualized
services. Cloud
Application
Architectures
provides
answers -- and
critical
guidance -- on
issues of cost,**

Online Library
Cloud Computing
Data Intensive
availability,
Computing And
performance,
Scheduling
scaling, privacy,
Chapman Hall/crc
and security.
With Cloud
Application
Architectures,
you will:
Computing Series
Understand the
differences
between
traditional
deployment and

Online Library
Cloud Computing
Data Intensive
**cloud
computing
Determine
whether moving
existing
applications to
the cloud
makes technical
and business
sense Analyze
and compare
the long-term
costs of cloud**

Online Library
Cloud Computing
Data Intensive
services,
Computing And
traditional
Scheduling
hosting, and
Charman Hallcra
owning
Numerical
dedicated
Analysis And
servers Learn
Scientific Series
how to build a
Computing Series
transactional
web application
for the cloud or
migrate one to
it Understand
how the cloud

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis
Computing Series
helps you better
prepare for
disaster
recovery
Change your
perspective on
application
scaling To
provide realistic
examples of the
book's
principles in
action, the

Online Library
Cloud Computing
Data Intensive
author delves
Computing And
into some of the
Scheduling
choices and
Chapman Hallcrc
operations
Numerical
available on
Amazon Web
Services, and
Scientific Series
includes high-
Computing Series
level summaries
of several of the
other services
available on the
market today.

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallerc
Numerical
Analysis And
Scientific
Computing Series

**Cloud
Application
Architectures
provides best
practices that
apply to every
available cloud
service. Learn
how to make
the transition
to the cloud and
prepare your
web**

Online Library
Cloud Computing

Data Intensive
**applications to
succeed.**

Mobile
computing,
where mobile
users
continuously
gather, process,
and share
sensor or applic
ation-specific
data, is
emerging as a

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall
Numerical
Analysis And
Scientific
Computing Series

**new computing
and network
paradigm of
data sharing in
seamless
manner. The
key enablers
are the
smartphones
(e.g., iPhones
and Android
phones)
equipped with**

Online Library
Cloud Computing

Data Intensive
**onboard
sensors (e.g.,
cameras,
accelerometer,
compass, GPS)
and various
wireless devices
(e.g., WiFi,
3G/4G-LTE, and
other network
standards).**

**However,
despite of all**

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall/crc
Numerical
Analysis
Computing Series

**the advances in
recent years,
mobile devices
have limited
resources for
computation,
memory,
network, and
battery. Mobile
cloud
computing
(MCC) is a
promising**

Online Library
Cloud Computing
Data Intensive
**practical
approach to
relax such
constraints in
mobile devices
for
analysis And
computational
intensive
applications,
where
computation
offloading to
virtually**

Online Library
Cloud Computing
Data Intensive
**unlimited
resources in
clouds can help
them to save
the energy
consumption.**

**Existing
offloading Series
algorithms and
corresponding
MCC systems
offload
computationally**

Online Library
Cloud Computing
Data Intensive
intensive
Computing And
applications to
Scheduling
remote cloud
Chapman Hallcrc
servers in a
Numerical
distributed
Analysis And
manner. And
Scientific
However, they
Computing Series
fail to address
challenges in
modern data-
intensive
applications,
where sensor

Online Library
Cloud Computing
Data Intensive
data is
Computing And
continuously
Scheduling
harvested and a
Chompa Hallcra
pplication-
Numerical
specific data
Analysis And
among users is
Scientific
shared to
Computing Series
process or
personalize
applications.
For instance,
modern
machine

Online Library
Cloud Computing
Data Intensive
**learning
(ML)-based
applications
require the
large amount of
training data to
train a model,
often require
periodic
retraining or
adaptation
based on
gathered user's**

Online Library
Cloud Computing
Data Intensive
**specific profiles
and context
data. For such
applications,
offloading is
not only
computationally
intensive but
data intensive,
and it requires
a seamless
interface to
upload/fetch**

Online Library
Cloud Computing
Data Intensive
**data to/from
cloud storage. A
comprehensive
survey provides
15 different
perspectives in
ten major MCC
systems from
the viewpoint of
data-intensive
computation
offloading.
Typical MCC**

Online Library
Cloud Computing
Data Intensive
**surveys often
constitute
network
protocol, code
rewrite
requirement,
offloading
granularity,
profiling,
resource
monitoring,
cost model, and
software**

Online Library
Cloud Computing

Data Intensive
Computing And
**preinstallation
requirement.**

Scheduling
Chaman Hallcrc
**Our survey
differs from
typical MCC**

Analysis Series
**surveys mainly
in several ways:**

Computing Series
**scalable big
data and**

**computing
support and
fault-tolerance**

of MCC

Online Library
Cloud Computing
Data Intensive
systems,
Computing And
providing
Scheduling
features such
Chapman Hallcrc
as parallel
Numerical
offloading,
Analysis And
multi-cloud
Support
support,
Computing Series
disconnected
operation,
reliable
message
delivery, cloud
server

Online Library
Cloud Computing
Data Intensive
**scalability, and
cloud storage
access. The
process of
computation
offloading is
complex. In this
thesis, we
tackle it as
several
subsystem
problems: First,
existing MCC**

Online Library
Cloud Computing
Data Intensive
**systems fail to
address
multiple cloud
settings in
computation
offloading
scenarios. The
application
partitioning
and offloading
to multiple
clouds are
formally**

Data Intensive
Computing And
Scheduling
Chapman Hallerc
Numerical
Airly A
Series

**formulated and
solved as an
integer linear
programming
(ILP) problem.**

**The objective
function of the
partitioning
problem makes
a set of
offloading
decision in
terms of**

Online Library
Cloud Computing
Data Intensive
tradeoffs
Computing And
between mobile
Scheduling
execution and
Channan Hallero
cloud execution
Numerical
with respect to
Analysis And
energy costs
Scientific
and time cost
Computing Series
under the
assumption of
multi-clouds;
Second,
existing MCC
systems fail to

Online Library
Cloud Computing

Data Intensive

address a
Computing And

wireless
Scheduling

network
Chapman Hallcrc

instability
Numerical

problem. In
Analysis And

order to achieve
Computing Series

fault-tolerant
Computing Series

communication
between mobile

devices and

cloud servers,

we propose and

implement a

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Computing Series

**mechanism that
can tolerate
unstable
network
conditions by
asynchronous
implementation
of network
binding; Third,
existing MCC
systems fail to
achieve reliable
offloading**

Online Library
Cloud Computing
Data Intensive
message
Computing And
delivery, where
Scheduling
millions of
Chappan Hallerc
mobile devices
Numerical
submit
Applied
computation
Series
offloading
Computing Series
requests and
data related
requests to
clouds. To
achieve such
scalability and

Online Library
Cloud Computing
Data Intensive
**reliability, we
propose a produ
Scheduling
Chapman Hall
Numerical
Computing And
Series**
cer/consumer-
based message
queue, where
producers for
delivering
offloading
requests send
offloading
requests over
the network to
the cluster,

Data Intensive
Computing And
Scheduling
**which in turn
serves them up
to consumers.**

Chapman Hall/crc
Numerical
Analysis Ar
Computing Series
**The multiple
consumers are
in charge of
submitting the
offloaded tasks
to cloud
resources.**

**Eventual
reliability is
achieved by**

Online Library
Cloud Computing
Data Intensive
**message
partitioning
and replication
in the message
queue system
while scalable
message
delivery is
achieved by
horizontal
scaling of produ
cers/consumers
and**

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall arc
Numerical
Analysis And
Computing Series

**reconfiguring
of message
partition factor.
Fourth, cloud
resource
management is
another
challenging
area, where
researchers put
little attention
to data
intensive**

Online Library
Cloud Computing

Data Intensive
**application
offloading.**

Existing MCC
systems are not
scalable when
dealing with
millions of
offloading
requests as well
as data
requests. For
the data
intensive

Online Library
Cloud Computing
Data Intensive
application
Computing And
offloading, we
Scheduling
consider
Chapman Hallerc
integration to
Numerical
one of the
Analytical And
conventional
Signal Processing
big data
Computing Series
systems where a
thin mobile
client is to
access data and
to process it
from the cloud.

**We propose the
fuse of Hadoop-
based parallel
computation
offloading to
multiple clouds
by developing
seamless
interfaces. The
integration
enables our
MCC system to
be scalable and**

Online Library
Cloud Computing
Data Intensive
reliable in
Computing And
scheduling
Scheduling
offloading tasks
Chapman Hallerc
and in serving
Numerical
data-related
Analysis And
operations on
top of Hadoop.
Computing Series
We provide a
couple of
evaluation
results in terms
of time saving
and energy

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall
Numerical
Applications
Series
Computing Series

**saving based on
two types of
benchmarks: co
mputationally-
intensive
applications
and data-
intensive
applications.
For the former,
we consider
chess game,
puzzle game,**

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Scientific
Computing Series

**cryptographic
algorithm, and
Huffman
compression
algorithm, for
the latter, we
consider the
state-of-the-art
speech
recognition
application. The
evaluation
extends a single**

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Charman Hallcrc
Numerical
Analysis And
Scientific
Computing Series

**offloading to
parallel
offloading. The
further
evaluation of
data-intensive
computational
cloud is
performed in
several aspects:
performance
comparison of
Hadoop version**

Online Library
Cloud Computing
Data Intensive
1 and version 2,
Computing And
Hadoop
Scheduling
overhead,
Chapman-Hall/c
benefit of file
Numerical
compression,
Analysis And
and
Scientific
performance of
Computing Office
cloud storage to
support
small/large
files. Finally,
the
performance of

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Charman Haller
Numerical
Analysis
Computing Series

**the proposed
message queue
is presented.
Modern society
requires a
specialized,
persistent
approach to IT
service delivery.
Cloud
computing
offers the most
logical answer**

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall
Numerical
Analysis
Computing Series

**through a
highly dynamic
and virtualized
resource made
available by an
increasing
number of
service
providers.**

**Advanced
Research on
Cloud
Computing**

Online Library
Cloud Computing
Data Intensive
**Design and
Applications
shares the
latest high
quality research
results on cloud
computing and
explores the
broad
applicability
and scope of
these trends on
an international**

Online Library
Cloud Computing
Data Intensive
**scale, venturing
into the hot-
button issue of
IT services
evolution and
what we need to
do to be
prepared for
future
developments
in cloud
computing. This
book is an**

Online Library
Cloud Computing
Data Intensive
essential
reference
source for
researchers and
practitioners in
the field of
cloud
computing, as
well as a guide
for students,
academics, or
anyone seeking
to learn more

Online Library
Cloud Computing
Data Intensive

about

**advancement in
IT services.**

**This publication
features**

chapters

covering a

broad range of

relevant topics,

including cloud

computing for e-

government,

cloud

Online Library
Cloud Computing
Data Intensive
**computing in
the public
sector, security
in the cloud,
hybrid clouds
and outsourced
data, IT service
personalization,
and supply
chain in the
cloud.**

**Proceedings of
Datacloud**

Online Library
Cloud Computing
Data Intensive
**2016: 7th
International
Workshop on
Data-Intensive
Computing in
the Clouds
Building
Applications
and
Infrastructure
in the Cloud
Handbook of
Research on**

Online Library
Cloud Computing
Data Intensive
**Scalable
Computing And
Scheduling
Technologies
Foundations
and
Applications
Programming
Progress in
Computing,
Analytics and
Networking
Knowledge
Management in**

Online Library
Cloud Computing
Data Intensive
the
Computing And
Development of
Scheduling
Data-Intensive
Chapman Hallcrc
Systems

The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected

Online Library
Cloud Computing
Data Intensive
information across
Computing And
industries.

Challenges
Scheduling
Chapman Hallers
Numerical
Analysis And
Security
Computing Series
associated with the
analysis, security,
sharing, storage,
and visualization of
large and complex
data sets continue
to plague data
scientists and
analysts alike as
traditional data

Online Library
Cloud Computing
Data Intensive
processing
applications struggle
to adequately
manage big data.
The Handbook of
Research on Big
Data Storage and
Visualization Series
Techniques is a
critical scholarly
resource that
explores big data
analytics and

Online Library
Cloud Computing
Data Intensive
technologies and
Computing And
their role in
Scheduling
developing a broad
Chapman Hallerc
understanding of
Numerical
issues pertaining to
Analysis And
the use of big data
Scientific Series
in multidisciplinary
Computing Series
fields. Featuring
coverage on a
broad range of
topics, such as
architecture
patterns,

Online Library
Cloud Computing
Data Intensive
programming
systems, and
Scheduling
computational
Chapman Hallcrc
energy, this
Numerical
publication is
Analysis And
geared towards
Scientific
professionals,
Computing Series
researchers, and
students seeking
current research
and application
topics on the
subject.

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Scientific
Computing Books

With the evolution of digitized data, our society has become dependent on services to extract valuable information and enhance decision making by individuals, businesses, and government in all aspects of life.

Therefore, emerging

Online Library
Cloud Computing
Data Intensive
cloud-based
infrastructures for
Scheduling
storage have been
Chapman Hall
widely thought of as
Numerical
the next generation
And
solution for the
Scientific
reliance on data
Computing Series
increases. Data
Intensive Storage
Services for Cloud
Environments
provides an
overview of the

Online Library
Cloud Computing
Data Intensive
current and potential
Computing And
approaches towards
Scheduling
data storage
Chapman Hallcrc
services and its
Numerical
relationship to cloud
Analysis And
environments. This
Scientific
reference source
Computing Series
brings together
research on storage
technologies in
cloud environments
and various
disciplines useful for

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
both professionals
and researchers.

The book 'Data
Intensive Computing
Applications for Big
Data' discusses the
technical concepts
of big data, data
intensive computing
through machine
learning, soft
computing and
parallel computing

Online Library
Cloud Computing
Data Intensive
paradigms. It brings
Computing And
together
Scheduling
researchers to
Chapman Hallarc
report their latest
Numerical
results or progress
Analysis Appl
in the development
Scientific
of the above
Computing Series
mentioned areas.
Since there are few
books on this
specific subject, the
editors aim to
provide a common

Online Library
Cloud Computing
Data Intensive
platform for
Computing And
researchers working
Scheduling
in this area to
Chapman Hallerc
exhibit their novel
Numerical
findings. The book
Analysis And
is intended as a
Scientific
reference work for
Computing Series
advanced
undergraduates and
graduate students,
as well as
multidisciplinary,
interdisciplinary and

Online Library
Cloud Computing
Data Intensive
transdisciplinary
Computing And
research workers
Scheduling
and scientists on the
Chapman Hallers
subjects of big data
Numerical
and cloud/parallel
Analysis And
and distributed
Simulation
computing, and
Computing Series
explains didactically
many of the core
concepts of these
approaches for
practical
applications. It is

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hallers
Numerical
Analysis And
Series
Computing Series

organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud, as well as dealing with privacy issues and the challenges faced in

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
environment. The
Chapman Hallers
Numerical
Analysis And
Scientific
Computing Series
book explores both
fundamental and
high-level concepts,
and will serve as a
manual for those in
the industry, while
also helping
beginners to
understand the
basic and advanced

Online Library
Cloud Computing

Data Intensive
aspects of big data
Computing And
and cloud
Scheduling
computing.

Chapman Hallerc
Big Data Analytics
for Sensor-Network
Numerical
Collected And

Intelligence explores
state-of-the-art
Computing Series

methods for using
advanced ICT
technologies to
perform intelligent
analysis on sensor

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall/crc
Numerical
Analysis And
Statistics
Computing Series

collected data. The book shows how to develop systems that automatically detect natural and human-made events, how to examine people's behaviors, and how to unobtrusively provide better services. It begins by exploring big

Online Library
Cloud Computing
Data Intensive
data architecture
Computing And
and platforms,
Scheduling
covering the cloud
Chapman Hallcrc
computing
Numerical
infrastructure and
Analysis And
how data is stored
Scientific
and visualized. The
Computing Series
book then explores
how big data is
processed and
managed, the key
security and privacy
issues involved, and

Online Library
Cloud Computing
Data Intensive

the approaches
used to ensure data
quality. In addition,
readers will find a
thorough

examination of big
data analytics,
analyzing statistical
methods for data
analytics and data
mining, along with a
detailed look at big
data intelligence,

Online Library
Cloud Computing
Data Intensive
ubiquitous and
Computing And
mobile computing,
Scheduling
and designing
Chapman Hallers
intelligence system
Numerical
based on context
Analysis And
and situation.

Indexing: The books
of this series are
Computing Series
submitted to EI-
Compendex and
SCOPUS Contains
contributions from
noted scholars in

Online Library
Cloud Computing

Data Intensive
computer science
Computing And
and electrical
Scheduling
engineering from
Chapman Hallerc
around the globe
Numerical
Provides a broad
Analysis And
overview of recent
Scientific Series
developments in
sensor collected
Computing Series

intelligence Edited
by a team
comprised of
leading thinkers in
big data analytics

Online Library
Cloud Computing
Data Intensive
Data-Intensive
Computing And
Science
Scheduling
Handbook of Data
Intensive Computing
BigMobile
Held in Conjunction
with SC16: the
International Series
Conference for High
Performance
Computing,
Networking, Storage
and Analysis : Salt

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Lake City, Utah,
November 13-18,
2016

Chapman Hallerc
19th International
Numerical, HCI

International 2017,
Vancouver, BC,
Canada, July 9-14,

Computing Series
2017, Proceedings,
Part I

Data-intensive Text
Processing with
MapReduce

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis of
Computing Series

This book presents new approaches that advance research in all aspects of agent-based models, technologies, simulations and implementations for data intensive applications. The nine chapters contain a review of

Online Library
Cloud Computing
Data Intensive
recent cross-
disciplinary
Computing And
Scheduling
approaches in cloud
Chapman Hall
environments and
Numerical
multi-agent
Analysis And
systems, and
Scientific
important
Computing Series
formulations of data
intensive problems
in distributed
computational
environments
together with the

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall Arc
Numerical
Analysis And
Scientific
Computing Series

presentation of new
agent-based tools to
handle those
problems and Big
Data in general.
This volume can
serve as a reference
for students,
researchers and
industry
practitioners
working in or
interested in joining

Online Library
Cloud Computing
Data Intensive
interdisciplinary
Computing And
work in the areas of
Scheduling
data intensive
Chapman Hall
computing and Big
Numerical
Data systems using
Analysis And
emergent large-
Scale distributed
Computing Series
computing
paradigms. It will
also allow
newcomers to grasp
key concepts and
potential solutions

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
system

architectures and
implementation of
applications in Multi-
Agent systems and
data intensive
computing.

"This book presents,
discusses, shares
ideas, results and

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Scientific
Computing Series

experiences on the recent important advances and future challenges on enabling technologies for achieving higher performance"--Provided by publisher.

Cloud computing has become a significant technology trend.

Online Library Cloud Computing

Experts believe cloud computing is currently reshaping information technology and the IT marketplace. The advantages of using cloud computing include cost savings, speed to market, access to greater computing resources, high

Online Library Cloud Computing

availability, and
scalability.

Handbook of Cloud
Computing includes
contributions from
world experts in the
field of cloud
computing from
academia, research
laboratories and
private industry.

This book presents
the systems, tools,

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling;
Chapman Hallerc
Numerical
Analysis
Scientific
Computing Series

and services of the leading providers of cloud computing; including Google, Yahoo, Amazon, IBM, and Microsoft. The basic concepts of cloud computing and cloud computing applications are also introduced. Current and future

Online Library
Cloud Computing
Data Intensive
technologies applied
Computing And
in cloud computing
Scheduling
are also discussed.
Chapman Hallcrc
Case studies,
Numerical
examples, and
Analysis And
exercises are
Scientific
provided
Computing Series
throughout.
Handbook of Cloud
Computing is
intended for
advanced-level
students and

Online Library
Cloud Computing
Data Intensive
researchers in
Computing And
computer science
Scheduling
and electrical
Chapman Hallerc
engineering as a
Numerical
reference book. This
handbook is also
beneficial to
computer and
Computing Series
system
infrastructure
designers,
developers,
business managers,

Online Library Cloud Computing

entrepreneurs and investors within the cloud computing related industry.

Data-intensive systems are a technological building block supporting Big Data and Data Science applications. This book familiarizes readers with core

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall/crc
Numerical
Analysis And
Scientific
Computing Series

concepts that they should be aware of before continuing with independent work and the more advanced technical reference literature that dominates the current landscape. The material in the book is structured following a problem-based approach.

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Scheduling
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Numerical
Analysis And
Scientific
Computing Series

This means that the content in the chapters is focused on developing solutions to simplified, but still realistic problems using data-intensive technologies and approaches. The reader follows one reference scenario through the whole

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall
Numerical
Analysis And
Data-intensive
Systems, given at
the University of
Stavanger. Some
chapters were also
a base for guest
lectures at Purdue

Online Library
Cloud Computing
Data Intensive
University and Lodz
Computing And
University of
Scheduling
Technology.
Chapman Hallcrc
Data Intensive
Computing
Applications for Big
Data
Scientific
Computing Series
From Parallel
Processing to the
Internet of Things
Informatics and
Communication
Technologies for

Online Library
Cloud Computing
Data Intensive
Societal
Computing And
Development
Scheduling
The Big Ideas
Behind Reliable,
Scalable, and
Maintainable
Systems
Performance Series
Evaluation of Data
Intensive Computing
in the Cloud
Proceedings of
ICCAN 2017

Online Library Cloud Computing

Describes principles of the emerging field of data-intensive computing, along with methods for designing, managing and analyzing the big data sets of today.

Data Intensive Computing refers to capturing, managing, analyzing, and understanding data at volumes and rates

Online Library Cloud Computing

*that push the
frontiers of current
technologies. The
challenge of data
intensive computing
is to provide the
hardware
architectures and
related software
systems and
techniques which are
capable of
transforming ultra-
large data into*

Online Library
Cloud Computing

*valuable knowledge.
Handbook of Data
Intensive Computing
is written by leading
international experts
in the field. Experts
from academia,
research laboratories
and private industry
address both theory
and application. Data
intensive computing
demands a
fundamentally*

Online Library Cloud Computing

different set of principles than mainstream computing. Data-intensive applications typically are well suited for large-scale parallelism over the data and also require an extremely high degree of fault-tolerance, reliability, and availability. Real-world examples are

Online Library Cloud Computing

provided throughout the book. Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers, including programmers, computer and system infrastructure designers, and developers. This book

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Orphan Historic
Numerical
Analysis And
Scientific
Computing Series

*can also be beneficial
for business
managers,
entrepreneurs, and
investors.
Big Data such as
Terabyte and
Petabyte datasets
are rapidly becoming
the new norm for
various organizations
across a wide range
of industries. The
widespread data-*

Online Library Cloud Computing

intensive computing needs have inspired innovations in parallel and distributed computing, which has been the effective way to tackle massive computing workload for decades. One significant example is MapReduce, which is a programming

Online Library
Cloud Computing
Data Intensive
*model for expressing
distributed And
computations on
huge datasets, and
an execution
framework for data-
intensive computing
on commodity
clusters as well.*

*Since it was originally
proposed by Google,
MapReduce has
become the most
popular technology*

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
for data-intensive
computing. While
Google owns its
proprietary
implementation of
MapReduce, an open
source
implementation
called Hadoop has
gained wide adoption
in the rest of the
world. The
combination of
Hadoop and Cloud

Online Library Cloud Computing

platforms has made data-intensive computing much more accessible and affordable than ever before.

Microgrids have recently emerged as the building block of a smart grid, combining distributed renewable energy sources, energy storage devices, and

Online Library
Cloud Computing
Data Intensive
load management in
order to improve
power system
reliability, enhance
sustainable
development, and
reduce carbon
emissions. At the
same time, rapid
advancements in
sensor and metering
technologies,
wireless and network
communication, as

Online Library Cloud Computing

well as cloud and fog computing are leading to the collection and accumulation of large amounts of data (e.g., device status data, energy generation data, consumption data). The application of big data analysis techniques (e.g., forecasting,

Online Library
Cloud Computing
Data Intensive
classification,
clustering) on such
data can optimize the
power generation
and operation in real
time by accurately
predicting electricity
demands, discovering
electricity
consumption
patterns, and
developing dynamic
pricing mechanisms.
An efficient and

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Graphical User
Numerical
Analysis And
Scientific
Computing Series

*intelligent analysis of
the data will enable
smart microgrids to
detect and recover
from failures quickly,
respond to electricity
demand swiftly,
supply more reliable
and economical
energy, and enable
customers to have
more control over
their energy use.*

Overall, data-
Page 120/241

Online Library
Cloud Computing
Data Intensive
*intensive analytics
can provide effective
and efficient decision
support for all of the
producers, operators,
customers, and
regulators in smart
microgrids, in order
to achieve holistic
smart energy
management,
including energy
generation,
transmission,*

Online Library
Cloud Computing

distribution, and demand-side management. This book contains an assortment of relevant novel research contributions that provide real-world applications of data-intensive analytics in smart grids and contribute to the dissemination of new

Online Library
Cloud Computing

ideas in this area.

*Challenges and
Solutions for Large-*

*scale Information
Management*

*Proceedings of ICICTS
2014*

*Modeling and
Simulation in HPC*

and Cloud Systems

*Applying Integration
Techniques and*

Methods in

Distributed Systems

Online Library
Cloud Computing
Data Intensive
and Technologies
Computing And
Scheduling
Concepts,
Methodologies, Tools,
and Applications

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting

Online Library
Cloud Computing
Data Intensive
new opportunities
in commerce,
Scheduling
science, and
Chapman Hallcrc
computing
Numerical
applications.

Processing the
enormous quantities
of data necessary
for these advances
requires large
clusters, making
distributed
computing

Online Library Cloud Computing

Data Intensive
paradigms more
crucial than ever.

MapReduce is a
programming model
for expressing
distributed
computations on
massive datasets
and an execution
framework for large-
scale data
processing on
clusters of

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallers
Numerical
Analysis And
Scientific
Computing Series

commodity servers.
The programming
model provides an
easy-to-understand
abstraction for
designing scalable
algorithms, while
the execution
framework
transparently
handles many
system-level details,
ranging from

Online Library
Cloud Computing
Data Intensive
scheduling to
Computing And
synchronization to
Scheduling
fault tolerance. This
Chapman Hall/crc
book focuses on
Numerical
MapReduce
Algorithm And
with an emphasis
Scientific Series
on text processing
Computing Series
algorithms common
in natural language
processing,
information
retrieval, and

Online Library
Cloud Computing

Data Intensive
machine learning.
Computing And
We introduce the
Scheduling
notion of
Chapman Hall's
MapReduce design
Numerical
patterns, which
Analysis And
represent general
Scientific
reusable solutions
Computing Series

to commonly
occurring problems
across a variety of
problem domains.
This book not only
intends to help the

Online Library
Cloud Computing
Data Intensive
reader "think in
Computing And
MapReduce", but
Scheduling
also discusses
Chapman Hallerc
limitations of the
Numerical
programming model
Analysis and
as well. This volume
Scientific
is a printed version
Computing Series
of a work that
appears in the
Synthesis Digital
Library of
Engineering and
Computer Science.

Online Library
Cloud Computing

Data Intensive
Synthesis Lectures
Computing And
provide concise,
Scheduling
original
Chapman Hall/crc
presentations of
Numerical
important research
Analysis And
and development
Scientific Series
topics, published
Computing Series
quickly, in digital
and print formats.

For more
information visit w
ww.morganclaypool.
com

Online Library
Cloud Computing

Data Intensive

Advanced
computing And
Scheduling

capabilities are used
to tackle a rapidly

growing range of
challenging science

and engineering

problems, many of

which are compute-
and data-intensive

as well. Demand for
advanced

computing has been

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall
Numerical
Analysis And
Scientific
Computing Series

growing for all
types and
capabilities of
systems, from large
numbers of single
commodity nodes to
jobs requiring
thousands of cores;
for systems with
fast interconnects;
for systems with
excellent data
handling and

Online Library
Cloud Computing
Data Intensive
management; and
Computing And
for an increasingly
Scheduling
diverse set of
Chapman Hallerc
applications that
Numerical
includes data
Analysis And
analytics as well as
Scientific
modeling and
Computing Series
simulation. Since
the advent of its
supercomputing
centers, the
National Science
Foundation (NSF)

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallers
Numerical
Analysis And
Scientific
Computing Series

has provided its
researchers with
state-of-the-art
computing systems.

The growth of new
models of
computing,
including cloud
computing and
publically available
by privately held
data repositories,
opens up new

Online Library
Cloud Computing
Data Intensive
possibilities for NSF.
Computing And
In order to better
Scheduling
understand the
Chapman Hallcrc
expanding and
Numerical
diverse
Applications And
requirements of the
Scientific
science and
Computing Series
engineering
community and the
importance of a new
broader range of
advanced
computing

Online Library
Cloud Computing
Data Intensive
Infrastructure, the
NSF requested that
the National
Research Council
carry out a study
examining
anticipated
priorities and
associated tradeoffs
for advanced
computing. Future
Directions for NSF
Advanced

Online Library
Cloud Computing
Data Intensive
Computing
Infrastructure to
Support U.S. Science
and Engineering in
2017-2020
provides a
framework for
future decision-
making about NSF's
advanced
computing strategy
and programs. It
offers

Online Library Cloud Computing

recommendations
aimed at achieving
four broad goals: (1)
position the U.S. for
continued
leadership in
science and
engineering, (2)
ensure that
resources meet
community needs,
(3) aid the scientific
community in

Online Library
Cloud Computing
Data Intensive
keeping up with the
Computing And
revolution in
Scheduling
computing, and (4)
Charmm Hallcra
sustain the
Numerical
infrastructure for
Advanced And
computing.

Scientific and
Commercial
computing is
undergoing an
immense change
with increasing

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Simulation
Computing Series

demands for
processing of large-
scale datasets for a
variety of needs
such as simulation,
modeling, and
calculations of
multivariate
equations.

Computation has
largely been used as
a method for
achieving the

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hallcrc
Numerical
Analysis And
Scientific
Computing Series

results and is now shifting to a data intensive computing model to accomplish some of the most demanding scientific and commercial challenges in existence.

Enterprise and commercial industries are

Online Library
Cloud Computing

Data Intensive
experiencing the
Computing And
need to process
Scheduling
increasingly large
Chapman Hallcra
datasets for
Numerical
industries such as
Analysis And
Oil & Gas, And
Communications,
Computing Series
Media &
Entertainment,
Healthcare and Life
Sciences and Big
Data Analytics.
Current data and

Online Library
Cloud Computing
Data Intensive
storage
architectures are
not sufficient to
provide for
Terascale and
Petascale Data
Intensive
Computing models
and simulations
which will require
new flexible ways of
data access at multi-
terabyte per second

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
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Numerical
Analysis And
Scientific
Computing Series

speeds. Elastic cloud computing based access models is increasingly necessary to provide the economies of scale of shared infrastructure. An architectural framework is proposed for data intensive cloud

Online Library
Cloud Computing
Data Intensive
computing based
applications called
Datalanx.

The digital age has
presented an
exponential growth
in the amount of
data available to
individuals looking
to draw conclusions
based on given or
collected
information across

Online Library
Cloud Computing
Data Intensive
industries.

Challenges
Scheduling
associated with the
Chapman Hallerc
Numerical
Analysis And
Scientific
Computing Series
analysis, security,
sharing, storage,
and visualization of
large and complex
data sets continue
to plague data
scientists and
analysts alike as
traditional data
processing

Online Library
Cloud Computing
Data Intensive
applications
struggle to
adequately manage
big data. Big Data:
Concepts,
Methodologies,
Tools, and
Applications is a
multi-volume
compendium of
research-based
perspectives and
solutions within the

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
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Numerical
Analysis And
Statistics Series
Computing Series

realm of large-scale
and complex data
sets. Taking a
multidisciplinary
approach, this
publication presents
exhaustive coverage
of crucial topics in
the field of big data
including diverse
applications,
storage solutions,
analysis techniques,

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
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Numerical
Analysis And
Scientific
Computing Series

and methods for
searching and
transferring large
data sets, in
addition to security
issues. Emphasizing
essential research in
the field of data
science, this
publication is an
ideal reference
source for data
analysts, IT

Online Library
Cloud Computing

Data Intensive

professionals,
researchers, and
academics.

For Clouds and Data-

Intensive and

Scalable Computing

Environments

Data Intensive Series

Storage Services for

Cloud Environments

Data-Intensive

Computing

CLOUD

Online Library
Cloud Computing

Data Intensive
COMPUTING

Computing And
Big Data: Concepts,
Scheduling,
Methodologies,
Tools, and

Applications

Datalanx: Architectu
ral Framework for

Data Intensive Series

Cloud Applications

*Data is at the center
of many challenges
in system design*

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
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Numerical
Analysis And
Scientific
Computing Series

*today. Difficult
issues need to be
figured out, such as
scalability,
consistency,
reliability, efficiency,
and maintainability.
In addition, we have*

*an overwhelming
variety of tools,
including relational
databases, NoSQL*

Online Library
Cloud Computing

Data Intensive
*datastores, stream or
batch processors, and
message brokers.*

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Numerical
Analysis And
Scientific
Computing Series

*What are the right
choices for your
application? How do
you make sense of all
these buzzwords? In
this practical and
comprehensive guide,
author Martin*

Kleppmann helps you

Online Library
Cloud Computing

Data Intensive
Computing And
Scheduling
Chapman Hall/crc
Numerical
Analysis And
Scientific
Computing Series

*navigate this diverse
landscape by
examining the pros
and cons of various
technologies for
processing and
storing data.*

*Software keeps
changing, but the
fundamental
principles remain the
same. With this book,*

Online Library
Cloud Computing
Data Intensive
*software engineers
and architects will
learn how to apply
those ideas in
practice, and how to
make full use of data
in modern
applications. Peer
under the hood of the
systems you already
use, and learn how to
use and operate them*

Online Library
Cloud Computing
Data Intensive
more effectively
Computing And
Make informed
Scheduling
decisions by
Chapman Hallcrc
identifying the
Numerical
strengths and
Analysis And
weaknesses of
Scientific
different tools
Computing Series
Navigate the trade-
offs around
consistency,
scalability, fault
tolerance, and

Online Library
Cloud Computing
Data Intensive
complexity
Computing And
Understand the
Scheduling
distributed systems
Chapman Hall/crc
research upon which
Numerical
modern databases
Analysis And
are built Peek behind
Scientific
the scenes of major
Computing Series
online services, and
learn from their
architectures
The book focuses to
foster new and

Online Library
Cloud Computing
Data Intensive
original research
Computing And
ideas and results in
Scheduling
three broad areas:
Chapman Hallcrc
computing, analytics,
Numerical
and networking with
Analysis And
its prospective
Scientific
applications in the
Computing Series
various

interdisciplinary
domains of
engineering. This is
an exciting and

Online Library
Cloud Computing
Data Intensive
emerging
Computing And
interdisciplinary area
Scheduling
in which a wide
Chapman Hallcrg
range of theory and
Numerical
methodologies are
Analysis And
being investigated
Scientific
and developed to
Computing Series
tackle complex and
challenging real
world problems. It
also provides insights
into the International

Online Library
Cloud Computing
Data Intensive
*Conference on
Computing And
Computing Analytics
Scheduling
and Networking
(ICCAN 2017) which
is a premier
international open
forum for scientists,
researchers and
technocrats in
academia as well as
in industries from
different parts of the*

Online Library
Cloud Computing
Data Intensive
world to present,
Computing And
interact, and
Scheduling
exchange the state of
Chapman Hall/crc
art of concepts,
Numerical
prototypes, innovative
Analysis And
research ideas in
Scientific
several diversified
Computing Series
fields. The book
includes invited
keynote papers and
paper presentations
from both academia

Online Library
Cloud Computing
Data Intensive
*and industry to
initiate and ignite our
young minds in the
meadow of
momentous research
and thereby enrich
their existing
knowledge. The book
aims at postgraduate
students and
researchers working
in the discipline of*

Online Library
Cloud Computing
Data Intensive
*Computer Science &
Engineering. It will be
also useful for the
researchers working
in the domain of
electronics as it
contains some
hardware
technologies and
forthcoming
communication
technologies.*

Workflows may be defined as abstractions used to model the coherent flow of activities in the context of an in silico scientific experiment. They are

employed in many domains of science such as

bioinformatics,

Online Library
Cloud Computing
Data Intensive
*astronomy, and
engineering. Such
workflows usually
present a
considerable number
of activities and
activations (i.e., tasks
associated with
activities) and may
need a long time for
execution. Due to the
continuous need to*

Online Library
Cloud Computing

Data Intensive
*store and process
data efficiently*

(making them data-
intensive workflows),

high-performance
computing

environments allied to
parallelization

techniques are used to
run these workflows.

At the beginning of
the 2010s, cloud

Online Library
Cloud Computing
Data Intensive
*technologies emerged
as a promising
environment to run
scientific workflows.*

*By using clouds,
scientists have
expanded beyond
single parallel
computers to
hundreds or even
thousands of virtual
machines. More*

Online Library
Cloud Computing
Data Intensive
*recently, Data-
Intensive Scalable
Computing (DISC)
frameworks (e.g.,
Apache Spark and
Hadoop) and
environments
emerged and are
being used to execute
data-intensive
workflows. DISC
environments are*

Online Library
Cloud Computing
Data Intensive
composed of
Computing And
processors and disks
Scheduling
in large-commodity
Chapman Hall/crc
computing clusters
Numerical
connected using high-
Analysis And
speed
Scientific
communications
Computing Series
switches and
networks. The main
advantage of DISC
frameworks is that
they support and

Online Library
Cloud Computing
Data Intensive
*grant efficient in-
memory data
management for
large-scale
applications, such as
data-intensive
workflows. However,
the execution of
workflows in cloud
and DISC
environments raise
many challenges such*

Online Library
Cloud Computing

Data Intensive
*as scheduling
Computing And
workflow activities
Scheduling
and activations,
Chapman Hallcrg
managing produced
Numerical
data, collecting
Analysis And
provenance data, etc.*

Scientific
Computing Series
*Several existing
approaches deal with
the challenges
mentioned earlier.*

*This way, there is a
real need for*

Online Library
Cloud Computing
Data Intensive
*understanding how to
manage these
workflows and
various big data
platforms that have
been developed and
introduced. As such,
this book can help
researchers
understand how
linking workflow
management with*

Online Library
Cloud Computing

*Data-Intensive
Computing And
Scalable Computing
Scheduling
can help in
Chapman Hallcrc
understanding and
Numerical
analyzing scientific
Analysis And
big data. In this book,
Scientific
we aim to identify
Computing Series
and distill the body
of work on workflow
management in
clouds and DISC
environments. We*

Online Library
Cloud Computing
Data Intensive
*start by discussing the
basic principles of
data-intensive
scientific workflows.*
Chapman Hall/crc
Numerical
Analysis And
Scientific
Computing Series
*Next, we present two
workflows that are
executed in a single
site and multi-site
clouds taking
advantage of
provenance.*

Afterward, we go

Online Library
Cloud Computing
Data Intensive
towards workflow
Computing And
management in DISC
Scheduling
environments, and we
Chapman Hall/crc
present, in detail,
Numerical
solutions that enable
Analysis And
the optimized
Scientific
execution of the
Computing Series
workflow using
frameworks such as
Apache Spark and its
extensions.

Foreword. A

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Online Library
Cloud Computing
Data Intensive
transformed
Computing And
scientific method.
Scheduling
Earth and
Chapman Hall/crc
environment. Health
Numerical
and wellbeing.
Analysis And
Scientific
Scientific
infrastructure.
Computing Series
Scholarly
communication.
Principles and
Fundamentals using
Hadoop and Spark

Online Library
Cloud Computing
Data Intensive
*Distributed and
Cloud Computing
Scheduling
Data-Intensive
Workflow
Management
Architectures,
Algorithms, and
Applications*

*Big Data Analytics
for Sensor-Network
Collected Intelligence
Data-intensive*

Online Library
Cloud Computing
Data Intensive
*Mobile Cloud
Computing And
Scheduling*

The two-volume set
LNCS 10271 and 10272
constitutes the refereed
proceedings of the 19th
International
Conference on Human-
Computer Interaction,
HCII 2017, held in
Vancouver, BC,
Canada, in July 2017.

Online Library
Cloud Computing
Data Intensive
Computing And
Scheduling
Chapman Hall
CRC
Analysis And
Scheduling
Computing Series

The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions. The papers address the latest research and development efforts and highlight the human aspects of design and use of

Online Library Cloud Computing

computing systems.

They cover the entire
field of Human-

Computer Interaction,
addressing major

advances in knowledge
and effective use of

computers in a variety
of application areas.

The papers included in
this volume cover the
following topics: HCI
theory and education;

Online Library
Cloud Computing
Data Intensive
HCI, innovation and
technology acceptance;
interaction design and
evaluation methods;
user interface
development;
methods, tools, and
architectures;
multimodal
interaction; and
emotions in HCI.

Big data is a topic of
active research in the

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Data Intensive
cloud community.
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Scheduling
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With increasing demand for data storage in the cloud, study of data-intensive applications is becoming a primary focus. Data-intensive applications involve high CPU usage for processing large volumes of data on the scale of terabytes or

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Applications in the
cloud, none of the
research compares the
Amazon Elastic
Compute Cloud
(Amazon EC2) and
Google Compute
Engine (GCE) clouds
using multiple

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benchmarks. This study performs extensive research on the Amazon EC2 and GCE clouds using the TeraSort, MalStone and CreditStone benchmarks on Hadoop and Sector data layers. Data collected for the Amazon EC2 and GCE clouds measure

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Cloud Computing
Data Intensive
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More efficient for data-
intensive applications
compared to Amazon
EC2.

Cloud Computing Series
Cloud Computing for
Data-Intensive
Applications Springer
Distributed and Cloud
Computing: From

Online Library Cloud Computing

Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the

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Hempden Hall
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Scheduling
Computing Series

first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics

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covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The

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Numerical
Analysis And
Scientific
Computing Series

principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further

Online Library Cloud Computing

reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
cloud, P2P and grid
distributed computing
technology including
clusters, the grid,
service-oriented
architecture, massively
parallel processors,
peer-to-peer
networking, and cloud
computing Includes
case studies from the

Online Library Cloud Computing

leading distributed
computing vendors:

Amazon, Microsoft,
Google, and more

Explains how to use
virtualization to
facilitate management,
debugging, migration,
and disaster recovery

Designed for
undergraduate or
graduate students
taking a distributed

Online Library Cloud Computing

systems course—each
chapter includes

exercises and further
reading, with lecture

slides and more

available online

Data-Intensive

Computing in Smart

Microgrids

Data-intensive

Scientific Discovery

Data-intensive

Computing and

Online Library
Cloud Computing
Data Intensive
Scheduling
Intelligent Agents in
Data-intensive
Computing
Hallcra
Human-Computer
Interaction. User
Interface Design,
Development and
Multimodality
Theory and Practice
*This volume
comprises research
papers presented at*

Online Library
Cloud Computing
Data Intensive
*the International
Conference on
Informatics and
Communication
Technologies for
Societal Development
(ICICTS 2014) held at
Karunya University,
India. The content
focuses on the recent
advancements in
image or signal
processing, computer
vision, communication*

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Cloud Computing

technologies, soft computing, advanced computing, data mining and knowledge discovery.

The primary objective of this volume is to facilitate

advancement and application of the knowledge and to promote ideas that solve problems faced by society through

Online Library
Cloud Computing

Data Intensive
cutting-edge
technologies. The
chapters contain
selected articles from
academicians,
researchers and
industry experts in the
form of frameworks,
models and
architectures.

Practical approaches,
observations and
results of research
that promotes societal

Online Library
Cloud Computing
Data Intensive
development are also
Computing And
incorporated. This
Scheduling
volume will serve as a
Optimization
useful compendium
Numerical
for interested readers
Analysis And
and researchers
Scientific
working towards
Computing Series
societal development
from the technological
perspective.

As more and more
data is generated at a
faster-than-ever rate,
processing large

Online Library
Cloud Computing
Data Intensive
volumes of data is
Computing And
becoming a challenge
Scheduling
for data analysis
software. Addressing
performance issues,
Numerical
Cloud Computing:
Analysis And
Data-Intensive
Scientific
Computing and
Computing Series
Scheduling explores
the evolution of
classical techniques
and describes
completely new
methods and

Online Library
Cloud Computing

innovative algorithms.

The

Cloud Computing:

Theory and Practice

provides students and

IT professionals with

an in-depth analysis

of the cloud from the

ground up. Beginning

with a discussion of

parallel computing

and architectures and

distributed systems,

the book turns to

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contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud

Online Library
Cloud Computing
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application across the
enterprise using
Computing And
virtualization,
Scheduling
resource
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management and the
Numerical
right amount of
Analysis And
networking support,
Scientific
including content
Computing Series
delivery networks and
storage area
networks. Developers
will find a complete
introduction to
application

Online Library
Cloud Computing
Data Intensive
development provided
on a variety of
platforms. Learn
about recent trends in
cloud computing in
critical areas such as:
resource
management,
security, energy
consumption, ethics,
and complex systems
Get a detailed hands-
on set of practical
recipes that help

Online Library
Cloud Computing
Data Intensive

*simplify the
deployment of a cloud
based system for
practical use of
computing clouds
along with an in-depth
discussion of several
projects Understand
the evolution of cloud
computing and why
the cloud computing
paradigm has a better
chance to succeed
than previous efforts*

Online Library
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in large-scale

distributed computing

"This book focuses on

the challenges of

distributed systems

imposed by the data

intensive applications,

and on the different

state-of-the-art

solutions proposed to

overcome these

challenges"--Provided

by publisher.

Data Intensive

Online Library
Cloud Computing
Data Intensive
*Computing for
Biodiversity And
Improving the
Performance of Data-
intensive Computing
on Cloud Platforms
Handbook of Cloud
Computing
Data-intensive
Systems
Designing Data-
Intensive Applications
Future Directions for
NSF Advanced*

Online Library
Cloud Computing
Data Intensive
*Computing
Infrastructure to
Support U.S. Science
and Engineering in
2017-2020*

Data-intensive science has the potential to transform scientific research and quickly translate scientific progress into complete solutions,

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Data Intensive

policies, and
economic success.

Computing And
Scheduling
But this

Chairman Haller
collaborative science

Numerical
is still lacking the

Analysis And
effective access and

Scientific
exchange of

Computing Series
knowledge among

scientists,

researchers, and

policy makers across

a range of

disciplines. Bringing

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Data Intensive
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Numerical
Analysis And
Simulation
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together leaders
from multiple
scientific disciplines,
Data-Intensive
Science shows how a
comprehensive
integration of
various techniques
and technological
advances can
effectively harness
the vast amount of
data being generated

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Analysis
Scientific
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and significantly
accelerate scientific
progress to address
some of the world's
most challenging
problems. In the
book, a diverse cross-
section of
application,
computer, and data
scientists explores
the impact of data-
intensive science on

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Scientific

current research and describes emerging technologies that will enable future scientific

breakthroughs. The book identifies best practices used to tackle challenges facing data-intensive science as well as gaps in these approaches. It also

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focuses on the integration of data-intensive science into standard research practice, explaining how components in the data-intensive science environment need to work together to provide the necessary infrastructure for community-scale

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scientific
Computing And
collaborations.

Scheduling
Organizing the
material based on a

Numerical
high-level, data-
intensive science

workflow, this book
provides an
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understanding of the
scientific problems

that would benefit
from collaborative

research, the current

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capabilities of data-intensive science, and the solutions to enable the next round of scientific advancements.

This book consists of eight chapters, five of which provide a summary of the tutorials and workshops organised as part of the

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CHIPSet Summer
Computing And
School: High-
Scheduling
Performance
Modelling and
Simulation for Big
Data Applications
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Analysis
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Cost Action on "New
Trends in Modelling
and Simulation in
HPC Systems,"
which was held in
Bucharest (Romania)
on September 21-23,

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2016. As such it offers a solid foundation for the development of new-generation data-intensive intelligent systems. Modelling and simulation (MS) in the big data era is widely considered the essential tool in science and engineering to

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substantiate the prediction and analysis of complex systems and natural phenomena. MS offers suitable abstractions to manage the complexity of analysing big data in various scientific and engineering domains. Unfortunately, big

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data problems are not always easily amenable to efficient MS over HPC (high performance computing). Further, MS communities may lack the detailed expertise required to exploit the full potential of HPC solutions, and HPC architects may not be

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fully aware of specific MS requirements. The main goal of the Summer School was to improve the participants' practical skills and knowledge of the novel HPC-driven models and technologies for big data applications.

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The trainers, who are also the authors of this book, explained how to design, construct, and utilise the complex MS tools that capture many of the HPC modelling needs, from scalability to fault tolerance and beyond. In the final

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three chapters, the book presents the first outcomes of the school: new ideas and novel results of the research on security aspects in clouds, first prototypes of the complex virtual models of data in big data streams and a data-intensive

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Data Intensive
computing
Computing And
framework for
Scheduling
opportunistic
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networks. It is a
Numerical
valuable reference
Analytic And
resource for those
Scientific
wanting to start
Computing Series
working in HPC and
big data systems, as
well as for advanced
researchers and
practitioners.

Mastering Cloud

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Computing is designed for undergraduate students learning to develop cloud computing applications.

Tomorrow's applications won't live on a single computer but will be deployed from and reside on a virtual

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server, accessible
Computing And
anywhere, any time.
Scheduling
Tomorrow's
Chapman Hallcrc
application
Numerical
developers need to
understand the
Scientific
requirements of
Computing Series
building apps for
these virtual systems,
including concurrent
programming, high-
performance
computing, and data-

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intensive systems.
Computing And
The book introduces
Scheduling
the principles of
Charman Hallerc
distributed and
Numerical
parallel computing
underlying cloud
Architectures And
architectures and
Computing Cones
specifically focuses
on virtualization,
thread
programming, task
programming, and
map-reduce

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to consider when

building applications

to run in a virtual

cloud environment

Real-world case

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studies include
scientific, business,
and energy-efficiency
considerations

Distributed systems
intertwine with our
everyday lives. The
benefits and current
shortcomings of the
underpinning
technologies are
experienced by a
wide range of people

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and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer

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Data Intensive
unparalleled
availability and
reliability to their
users. Applying

Integration
Techniques and
Methods in

Distributed Systems
is a critical scholarly
publication that
defines the current
state of distributed
systems, determines

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Scheduling
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Numerical
And
Series
Computing Series

further goals, and
presents
architectures and
service frameworks
to achieve highly
integrated
distributed systems
and presents
solutions to
integration and
efficient
management
challenges faced by

Online Library

Cloud Computing

Data Intensive

current and future
distributed systems.

Computing And

Scheduling

Chapman Hallers

Numerical

languages, and smart

environments, this

book is ideal for

system

administrators,

integrators,

designers,

developers,

Online Library
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Data Intensive
researchers, and
Computing And
academicians.

Scheduling
Handbook of
Chapman Hall Arc
Research on Big
Numerical
Data Storage and
Visualization and
Techniques

Advanced Research
Computing Series
on Cloud Computing
Design and
Applications
Data Intensive
Distributed

Online Library
Cloud Computing
Data Intensive
Computing:
Challenges and
Scheduling
Solutions for Large-
scale Information
Management
Cloud Application
Architectures
Cloud Computing
Data-Intensive
Computing and
Scheduling
This book is focused
on the development

Online Library Cloud Computing

Data Intensive
Computing And
Scheduling
of a data integration
framework for
retrieval of
biodiversity
information from
heterogeneous and
distributed data
sources. The data
integration system
proposed in this book
links remote
databases in a
networked
environment,

Online Library
Cloud Computing
Data Intensive
supports
heterogeneous
databases and data
formats, links
databases hosted on
multiple platforms,
and provides data
security for database
owners by allowing
them to keep and
maintain their own
data and to choose
information to be
shared and linked.

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The book is a useful guide for researchers, practitioners, and graduate-level students interested in learning state-of-the-art development for data integration in biodiversity.

This book presents a range of cloud computing platforms for data-intensive scientific

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Stephan Hübner
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applications. It covers systems that deliver infrastructure as a service, including: HPC as a service; virtual networks as a service; scalable and reliable storage; algorithms that manage vast cloud resources and applications runtime; and programming models that enable

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Data Intensive
pragmatic
programming and
implementation
toolkits for eScience
applications. Many
scientific applications
in clouds are also
introduced, such as
bioinformatics,
biology, weather
forecasting and social
networks. Most
chapters include case
studies. Cloud

Online Library
Cloud Computing
Data Intensive
Computing for Data-
Intensive
Applications targets
advanced-level
students and
researchers studying
computer science
and electrical
engineering.

Professionals
working in cloud
computing,
networks, databases
and more will also

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Computing And
Scheduling
The Fourth Paradigm
Cloud Computing for
Data-Intensive
Applications
Mastering Cloud
Computing
Computing Series