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From Parallel Processing to the
Internet of Things Kai Hwang

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coverage of modern distributed
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architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the 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 ...

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Distributed and Cloud Computing: From 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.

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Abstract From the leading minds
in the field, Distributed and Cloud

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Computing is the first modern, up-to-date distributed systems textbook. Starting with an overview of modern distributed models, the book exposes the design principles, systems architecture, and innovative applications of parallel, distributed, and cloud computing systems.

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Kai Hwang, Geoffrey C. Fox, Jack Dongarra Distributed and Cloud Computing is a comprehensive and up-to-date textbook that covers the convergence of high performance computing, distributed and cloud computing, virtualization, and grid computing.

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Discover why distributed cloud is the next generation of cloud computing, along with its advantages compared with public cloud, hybrid cloud and edge computing. Organizations that hesitate to commit to a total migration to the public cloud model use a combination — or hybrid — of private-cloud-inspired and public cloud styles of computing.

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Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing

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technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It...

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From the leading minds in the field, Distributed and Cloud Computing is the first modern, up-

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'Distributed and Cloud Computing' explains how to create high-performance, scalable, reliable systems.

Starting with an overview of modern distributed models, the text exposes the design principles, systems architecture, and innovative applications of parallel, distributed, and cloud computing systems

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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 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 reading, with lecture slides and more available online. This book will be ideal for students taking a distributed

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systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern 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 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

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distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

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The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies.

This book gathers research contributions on recent advances in intelligent and distributed computing. A major focus is placed on new techniques and applications for several highlydemanded research directions: Internet of Things, Cloud Computing and Big Data, Data Mining and Machine

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Learning, Multi-agent and Service-Based Distributed Systems, Distributed Algorithms and Optimization, Modeling Operational Processes, Social Network Analysis and Inappropriate Content Counteraction, Cyber-Physical Security and Safety, Intelligent Distributed Decision Support Systems, Intelligent Human-Machine Interfaces, VisualAnalytics and others. The book represents the peer-reviewed proceedings of the 13th International Symposium on Intelligent Distributed Computing (IDC 2019), which was held in St. Petersburg, Russia, from October 7 to 9, 2019.

The definitive guide to

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successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big-data theories, cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-

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data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT

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(SMACT) principles and
Technologies

Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides

www.wiley.com/go/hwangIoT Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty

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and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource.

This volume contains the proceedings of CloudCom 2009, the First International Conference on Cloud Computing. The conference was held in Beijing, China, during December 1-4, 2009, and was the first in a series initiated by the Cloud Computing Association (www.cloudcom.org). The Cloud Computing Association was founded in 2009 by

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Chunming Rong, Martin Gilje
Jaaton, and Frode Eika Sandnes.
This first conference was
organized by the Beijing Ji-
tong University, Chinese Institute of
Electronics, and Wuhan
University, and co-organized by
Huazhong University of Science
and Technology, South China
Normal University, and Sun Yat-
sen University. Ever since the
inception of the Internet, a
“Cloud” has been used as a
metaphor for a network-
accessible infrastructure (e.g.,
data storage, computing
hardware, or entire networks)
which is hidden from users. To
some, the concept of cloud
computing may seem like a
throwback to the days of big
mainframe computers, but we

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believe that cloud computing makes data truly mobile, - lowing a user to access services anywhere, anytime, with any Internet browser. In cloud computing, IT-related capabilities are provided as services, accessible without requiring control of, or even knowledge of, the underlying technology. Cloud computing provides dynamic scalability of services and computing power, and although many mature technologies are used as components in cloud computing, there are still many unresolved and open problems.

Data management has evolved over the years from being strictly associated with database systems, through active

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databases, to become a topic that has grown beyond the scope of a single field encompassing a large range of subjects, such as distributed systems, event-driven systems, and peer-to-peer and streaming systems. The present collection of works, which sheds light on various facets of data management, is dedicated to Prof. Alejandro Buchmann on the occasion of his 60th birthday. His scientific path looks back on more than thirty years of successful academic life and high-impact research. With this book we celebrate Prof. Buchmann's vision and achievements.

Component Oriented
Programming offers a unique
programming-centered approach

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to component-based software development that delivers the well-developed training and practices you need to successfully apply this cost-effective method. Following an overview of basic theories and methodologies, the authors provide a unified component infrastructure for building component software using JavaBeans, EJB, OSGi, CORBA, CCM, .NET, and Web services. You'll learn how to develop reusable software components; build a software system of pre-built software components; design and implement a component-based software system using various component-based approaches. Clear organization and self-testing features make Component

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oriented programming an ideal textbook for graduate and undergraduate courses in computer science, software engineering, or information technology as well as a valuable reference for industry professionals.

Cloud Computing and Distributed Systems

This book represents the combined peer-reviewed proceedings of the Eight International Symposium on Intelligent Distributed Computing - IDC'2014, of the Workshop on Cyber Security and Resilience of Large-Scale Systems - WSRL-2014, and of the Sixth International Workshop on Multi-

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Agent Systems Technology and Semantics- MASTS-2014. All the events were held in Madrid, Spain, during September 3-5, 2014. The 47 contributions published in this book address several topics related to theory and applications of the intelligent distributed computing and multi-agent systems, including: agent-based data processing, ambient intelligence, collaborative systems, cryptography and security, distributed algorithms, grid and cloud computing, information extraction, knowledge management, big data and ontologies, social networks, swarm intelligence or videogames amongst others.

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