Distributed and Cloud Computing

From Parallel Processing to the Internet of Things

Kai Hwang · Geoffrey C. Fox · Jack J. Dongarra

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Abhishek Swaroop,Bal Virdee,Sérgio Duarte Correia,Zdzislaw Polkowski

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Machine Learning for Cloud Management Jitendra Kumar,Ashutosh Kumar Singh,Anand Mohan,Rajkumar Buyya,2021-11-25 Cloud computing offers subscription based on demand services and it has emerged as the backbone of the computing industry It has enabled us to share resources among multiple users through virtualization which creates a virtual instance of a computer system running in an abstracted hardware layer Unlike early distributed computing models it offers virtually limitless computing resources through its large scale cloud data centers It has gained wide popularity over the past few years with an ever increasing infrastructure a number of users and the amount of hosted data The large and complex workloads hosted on these data centers introduce many challenges including resource utilization power consumption scalability and operational cost Therefore an effective resource management scheme is essential to achieve operational efficiency with improved elasticity Machine learning enabled solutions are the best fit to address these issues as they can analyze and learn from the data Moreover it brings automation to the solutions which is an essential factor in dealing with large distributed systems in the cloud paradigm Machine Learning for Cloud Management explores cloud resource management through predictive modelling and virtual machine placement The predictive approaches are developed using regression based time series analysis and neural network models The neural network based models are primarily trained using evolutionary algorithms and efficient virtual machine placement schemes are developed using multi objective genetic algorithms Key Features The first book to set out a range of machine learning methods for efficient resource management in a large distributed network of clouds Predictive analytics is an integral part of efficient cloud resource management and this book gives a future research direction to researchers in this domain It is written by leading international researchers The book is ideal for researchers who are working in the domain of cloud computing *Cloud Computing Enabled Big-Data Analytics in Wireless Ad-hoc Networks* Sanjoy Das,Ram Shringar Rao,Indrani Das,Vishal Jain,Nanhay Singh,2022-03-20 This book discusses intelligent computing through the Internet of Things IoT and Big Data in vehicular environments in a single volume It covers important topics such as topology based routing protocols heterogeneous wireless networks security risks software defined vehicular ad hoc networks vehicular delay tolerant networks and energy harvesting for WSNs using rectenna FEATURES Covers applications of IoT in Vehicular Ad hoc Networks VANETs Discusses use of machine learning and other computing techniques for enhancing performance of networks Explains game theory based vertical handoffs in heterogeneous wireless networks Examines monitoring and surveillance of vehicles through the vehicular sensor network Investigates theoretical approaches on software defined VANET The book is aimed at graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer science and engineering Proceedings of Data Analytics and Management Abhishek Swaroop,Bal Virdee,Sérgio Duarte Correia,Zdzislaw Polkowski,2025-10-03 This book includes original unpublished contributions presented at the International

Conference on Data Analytics and Management ICDAM 2025 held at London Metropolitan University London UK during June 2025 The book covers the topics in data analytics data management big data computational intelligence and communication networks The book presents innovative work by leading academics researchers and experts from industry which is useful for young researchers and students The book is divided into ten volumes **Internet of Things and Data Analytics Handbook** Hwaiyu Geng,2016-12-20 This book examines the Internet of Things IoT and Data Analytics from a technical application and business point of view Internet of Things and Data Analytics Handbook describes essential technical knowledge building blocks processes design principles implementation and marketing for IoT projects It provides readers with knowledge in planning designing and implementing IoT projects The book is written by experts on the subject matter including international experts from nine countries in the consumer and enterprise fields of IoT The text starts with an overview and anatomy of IoT ecosystem of IoT communication protocols networking and available hardware both present and future applications and transformations and business models The text also addresses big data analytics machine learning cloud computing and consideration of sustainability that are essential to be both socially responsible and successful Design and implementation processes are illustrated with best practices and case studies in action In addition the book Examines cloud computing data analytics and sustainability and how they relate to IoT overs the scope of consumer government and enterprise applications Includes best practices business model and real world case studies Hwaiyu Geng P E is a consultant with Amica Research www AmicaResearch org Palo Alto California promoting green planning design and construction projects He has had over 40 years of manufacturing and management experience working with Westinghouse Applied Materials Hewlett Packard and Intel on multi million high tech projects He has written and presented numerous technical papers at international conferences Mr Geng a patent holder is also the editor author of Data Center Handbook Wiley 2015

Smart Technologies for Energy and Environmental Sustainability Parul Agarwal,Mamta Mittal,Jawed Ahmed,Sheikh Mohammad Idrees,2021-11-30 As the application of smart technologies for monitoring environmental activities becomes more widespread there is a growing demand for solutions that can help analyze the risk factors and impacts on the environment by focusing on energy consumption storage and management This book is designed to serve as a knowledge sharing platform focusing on the emerging models architectures and algorithms being developed for smart computational technologies that can lead to efficient energy conservation and environmental sustainability *Design, Analysis and Applications of Renewable Energy Systems* Ahmad Taher Azar,Nashwa Ahmad Kamal,2021-09-09 Design Analysis and Applications of Renewable Energy Systems covers recent advancements in the study of renewable energy control systems by bringing together diverse scientific breakthroughs on the modeling control and optimization of renewable energy systems as conveyed by leading energy systems engineering researchers The book focuses on present novel solutions for many problems in the field covering modeling control theorems and the optimization techniques that will help solve many

scientific issues for researchers Multidisciplinary applications are also discussed along with their fundamentals modeling analysis design realization and experimental results This book fills the gaps between different interdisciplinary applications ranging from mathematical concepts modeling and analysis up to the realization and experimental work Presents some of the latest innovative approaches to renewable energy systems from the point of view of dynamic modeling system analysis optimization control and circuit design Focuses on advances related to optimization techniques for renewable energy and forecasting using machine learning methods Includes new circuits and systems helping researchers solve many nonlinear problems **Cybersecurity for Internet of Health Things** Mohiuddin Ahmed,Nazim Choudhury,2025-11-12 Healthcare is one of the industries that has embraced and benefitted the most from improved internet connectivity and usage Since the number of healthcare service seekers across the world is growing at a rapid pace service providers rely on the internet connected ecosystem which is also known as the critical health infrastructure Internet of Health Things IoHT or Internet of Medical Things IoMT The importance of IoHT was highlighted during the COVID 19 pandemic While these technologies provide huge benefits it goes hand in hand with malicious xploitation Cybercrime costs are projected to hit 1 trillion USD per month by 2031 Healthcare is one of the most susceptible industries for cybercrime There has been a massive surge in cyber attacks and newer variants of cyber threats are emerging This book addresses the challenges associated with modern healthcare which will provide a bigger picture of the evolution trends techniques impact on critical infrastructures national security countermeasures and open research directions in this area In addition it serves as a single source of reference of knowledge on the topic Network and Traffic Engineering in Emerging Distributed Computing Applications Abawajy, Jemal H.,Pathan, Mukaddim,Rahman, Mustafizur,Pathan, Al-Sakib Khan,Deris, Mustafa Mat,2012-07-31 This book focuses on network management and traffic engineering for Internet and distributed computing technologies as well as present emerging technology trends and advanced platforms Provided by publisher **Distributed and Cloud Computing** Kai Hwang,Jack Dongarra,Geoffrey C. Fox,2013-12-18 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 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 applications of parallel distributed and cloud computing systems Topics 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 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 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 distributed systems course each chapter includes exercises and further reading with lecture slides and more available online   Cloud Computing Dan C. Marinescu,2013 The first chapter gives an overview of cloud computing at a level accessible to a lay person To motivate the reasons for a paradigm shift in the way we compute and store information we introduce the concept of network centric computing and network centric content A brief discussion of peer to peer systems a first step in the shift from local to remote data storage and processing follows The chapter continues with a discussion of technological advances that have made cloud computing possible and of the economical reasons why this new paradigm is attractive for many users and applications Then we take a closer look at the cloud computing delivery models Software as a Service SaaS Platform as a Service PaaS and Infrastructure as a Service IaaS SaaS gives the users capability to use applications supplied by the service provider but allows no control of the platform or the infrastructure PaaS gives the capability to deploy consumer created or acquired applications using programming languages and tools supported by the provider IaaS allows the user to deploy and run arbitrary software which can include operating systems and applications The new paradigm raises ethical questions and has significant vulnerabilities each dissected in separate sections Finally the chapter presents the major challenges faced by this new paradigm The chapter concludes with a overview of the literature and with a historic perspective   **Cloud Computing and Distributed Systems** Kai Hwang,Jack Dongarra,Geoffrey C. Fox,2018-02-01 Cloud Computing and Distributed Systems   **American Book Publishing Record** ,1979   **Books in Series, 1876-1949** R.R. Bowker Company,1982   The British National Bibliography Arthur James Wells,1994   **Bibliographic Guide to Conference Publications** New York Public Library. Research Libraries,1979 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes

     Guide to Reliable Distributed Systems Kenneth P Birman,2012-01-15 This book describes the key concepts principles and implementation options for creating high assurance cloud computing solutions The guide starts with a broad technical overview and basic introduction to cloud computing looking at the overall architecture of the cloud client systems the modern Internet and cloud computing data centers It then delves into the core challenges of showing how reliability and fault tolerance can be abstracted how the resulting questions can be solved and how the solutions can be leveraged to create a wide range of practical cloud applications The author s style is practical and the guide should be readily understandable

without any special background Concrete examples are often drawn from real world settings to illustrate key insights Appendices show how the most important reliability models can be formalized describe the API of the Isis2 platform and offer more than 80 problems at varying levels of difficulty **Complex Systems and Clouds** Dan C. Marinescu,2016-10-15 Complex Systems and Clouds A Self Organization and Self Management Perspective provides insights into the intricate world of self organizing systems Large scale distributed computer systems have evolved into very complex systems and are at the point where they need to borrow self adapting organizing concepts from nature The book explores complexity in big distributed systems and in the natural processes in physics and chemistry building a platform for understanding how self organization in big distributed systems can be achieved It goes beyond the theoretical description of self organization to present principles for designing self organizing systems and concludes by showing the need for a paradigm shift in the development of large scale systems from strictly deterministic to non deterministic and adaptive Analyzes the effect of self organization applied to computer clouds Furthers research on principles of self organization of computing and communication systems inspired by a wealth of self organizing processes and phenomena in nature and society Presents a unique analysis of the field with solutions and case studies *Cloud Computing* Nikos Antonopoulos,Lee Gillam,2010-07-16 Cloud computing continues to emerge as a subject of substantial industrial and academic interest Although the meaning and scope of cloud computing continues to be debated the current notion of clouds blurs the distinctions between grid services web services and data centers among other areas Clouds also bring considerations of lowering the cost for relatively bursty applications to the fore Cloud Computing Principles Systems and Applications is an essential reference guide that provides thorough and timely examination of the services interfaces and types of applications that can be executed on cloud based systems The book identifies and highlights state of the art techniques and methods for designing cloud systems presents mechanisms and schemes for linking clouds to economic activities and offers balanced coverage of all related technologies that collectively contribute towards the realization of cloud computing With an emphasis on the conceptual and systemic links between cloud computing and other distributed computing approaches this text also addresses the practical importance of efficiency scalability robustness and security as the four cornerstones of quality of service Topics and features explores the relationship of cloud computing to other distributed computing paradigms namely peer to peer grids high performance computing and web services presents the principles techniques protocols and algorithms that can be adapted from other distributed computing paradigms to the development of successful clouds includes a Foreword by Professor Mark Baker of the University of Reading UK examines current cloud practical applications and highlights early deployment experiences elaborates the economic schemes needed for clouds to become viable business models This book will serve as a comprehensive reference for researchers and students engaged in cloud computing Professional system architects technical managers and IT consultants will also find this unique text a practical guide to the application and delivery of commercial

cloud services Prof Nick Antonopoulos is Head of the School of Computing University of Derby UK Dr Lee Gillam is a Lecturer in the Department of Computing at the University of Surrey UK **Artificial Intelligence and Machine Learning for EDGE Computing** Rajiv Pandey,Sunil Kumar Khatri,Neeraj Kumar Singh,Parul Verma,2022-04-26 Artificial Intelligence and Machine Learning for Predictive and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing Sections cover the growing number of devices and applications in diversified domains of industry including gaming speech recognition medical diagnostics robotics and computer vision and how they are being driven by Big Data Artificial Intelligence Machine Learning and distributed computing may it be Cloud Computing or the evolving Fog and Edge Computing paradigms Challenges covered include remote storage and computing bandwidth overload due to transportation of data from End nodes to Cloud leading in latency issues security issues in transporting sensitive medical and financial information across larger gaps in points of data generation and computing as well as design features of Edge nodes to store and run AI ML algorithms for effective rendering Provides a reference handbook on the evolution of distributed systems including Cloud Fog and Edge Computing Integrates the various Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing and storage including hardware constraints and the technological architectural developments that shall overcome those constraints *Cloud Computing* Hiran Kamal Kant,2019-09-20 Unleash the power of cloud computing using Azure AWS and Apache HadoopKey features Provides a sound understanding of the Cloud computing concepts architecture and its applications Explores the practical benefits of Cloud computing services and deployment models in details Cloud Computing Architecture Cloud Computing Life Cycle CCLC Load balancing approach Mobile Cloud Computing MCC Google App Engine GAE Virtualization and Service Oriented Architecture SOA Cloud Computing applications Google Apps Dropbox Cloud and Apple iCloud and its uses in various sectors Education Healthcare Politics Business and Agriculture Cloud Computing platforms Microsoft Azure Amazon Web Services AWS Open Nebulla Eucalyptus Open Stack Nimbus and The Apache Hadoop Architecture Adoption of Cloud Computing technology and strategies for migration to the cloud Cloud computing adoption case studies Sub Saharan Africa and India Chapter wise Questions with Summary and Examination Model Question papers Description With the advent of internet there is a complete paradigm shift in the manner we comprehend computing Need to enable ubiquity convenient and on demand access to resources in highly scalable and resilient environments that can be remotely accessed gave birth to the concept of Cloud computing The acceptance is so rapid that the notion influences sophisticated innovations in academia industry and research world wide and hereby change the landscape of information technology as we thought of Through this book the authors tried to incorporate core principles and basic notion of cloud computing in a step by step manner and tried to emphasize on key concepts for clear and thorough insight into the subject This book begins with the fundamentals of cloud

computing its service and deployment models architecture as well as applications and platforms It presents some key enterprise strategies and models for the adoption of and migration to cloud Privacy and security issues and challenges also form a major part of our discussion in the book as well as case studies of cloud computing adoption in Sub Saharan Africa and India The book concludes with a discussion of several advanced topics such as Amazon Web Services AWS Open Nebulla Microsoft Azure Apache Hadoop and Google App Engine GAE What will you learn Learn about the Importance of Cloud Computing in Current Digital Era Understand the Core concepts and Principles of Cloud Computing with practical benefits Learn about the Cloud Deployment models and Services Discover how Cloud Computing Architecture works Learn about the Load balancing approach and Mobile Cloud Computing MCC Learn about the Virtualization and Service Oriented Architecture SOA concepts Learn about the various Cloud Computing applications Platforms and Security concepts Understand the adoption Cloud Computing technology and strategies for migration to the cloud Case Studies for Cloud computing adoption Sub Saharan Africa and India Who this book is forThis book is intended for students of B E B Tech B Sc M Sc M E and M Tech as a text book The content is designed keeping in mind the bench marked curriculum of various universities both National and International The book covers not only the technical details of how cloud works but also exhibits the strategy technical design and in depth knowledge required to migrate existing applications to the cloud Therefore it makes it relevant for the beginners who wants to learn cloud computing right from the foundation Aspiring Cloud Computing Researchers Instructors Academicians and Professionals if they are familiar with cloud can use this book to learn various open source cloud computing tools applications technologies They will also get a flavor of various international certification exams available Table of contents1 Foundation of Cloud Computing 2 Cloud Services and Deployment Models3 Cloud Computing Architecture4 Virtualization Technology5 Service Oriented Architecture6 Cloud Security and Privacy7 Cloud Computing Applications8 Cloud Computing Technologies Platform and Services9 Adoption of Cloud Computing10 Model Paper 111 Model Paper 212 Model Paper 313 Model Paper 4 About the authorKamal Kant Hiran is working as Associate Professor Amity University India the second major research theme is focused on the emerging capabilities of cloud computing Mr Mahrishi is rewarded at number of occasions in various domains including Recognition as an active reviewer by Journal of Parallel and Distributed Computing JPDC Elsevier SCI Cloud Computing Enable Technologies and Recognition for outstanding performance in Campus Connect Program by Infosys India His LinkedIn profile https www linkedin com in mehuk mahrishi 30979026

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