

Distributed and Cloud Computing

From Parallel Processing to the Internet of Things

Kai Hwang · Geoffrey Fox · Jack J. Dongarra

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Morgan Kaufmann

Distributed And Cloud Computing From Parallel Processing To The Internet Of Things

Hoa Tran-Dang, Dong-Seong Kim



Distributed And Cloud Computing From Parallel Processing To The Internet Of Things:

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 and Distributed Systems Kai Hwang, Jack Dongarra, Geoffrey C.

Fox, 2018-02-01 Cloud Computing and Distributed Systems

Advances in Edge Computing: Massive Parallel

Processing and Applications Fatos Xhafa, Arun Kumar Sangaiah, 2020-03-15 The rapid advance of Internet of Things IoT technologies has resulted in the number of IoT connected devices growing exponentially with billions of connected devices worldwide While this development brings with it great opportunities for many fields of science engineering business and everyday life it also presents challenges such as an architectural bottleneck with a very large number of IoT devices connected to a rather small number of servers in Cloud data centers and the problem of data deluge Edge computing aims to alleviate the computational burden of the IoT for the Cloud by pushing some of the computations and logics of processing from the Cloud to the Edge of the Internet It is becoming commonplace to allocate tasks and applications such as data filtering classification semantic enrichment and data aggregation to this layer but to prevent this new layer from itself becoming another bottleneck for the whole computing stack from IoT to the Cloud the Edge computing layer needs to be capable of implementing massively parallel and distributed algorithms efficiently This book Advances in Edge Computing

Massive Parallel Processing and Applications addresses these challenges in 11 chapters Subjects covered include Fog storage software architecture IoT based crowdsourcing the industrial Internet of Things privacy issues smart home management in the Cloud and the Fog and a cloud robotic solution to assist medical applications Providing an overview of developments in the field the book will be of interest to all those working with the Internet of Things and Edge computing

4th International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2019 Neeta Nain,Santosh Kumar Vipparthi,2020-02-14 This book presents the proceedings of the 4th International Conference on Internet of Things and Connected Technologies ICIoTCT held on May 9 10 2019 at Malaviya National Institute of Technology MNIT Jaipur India The Internet of Things IoT promises to usher in a revolutionary fully interconnected smart world with relationships between objects and their environment and objects and people becoming more tightly intertwined The prospect of the Internet of Things as a ubiquitous array of devices bound to the Internet could fundamentally change how people think about what it means to be online The ICIoTCT 2019 conference provided a platform to discuss advances in Internet of Things IoT and connected technologies such as various protocols and standards It also offered participants the opportunity to interact with experts through keynote talks paper presentations and discussions and as such stimulated research With the recent adoption of a variety of enabling wireless communication technologies like RFID tags BLE ZigBee embedded sensor and actuator nodes and various protocols such as CoAP MQTT and DNS IoT has moved on from its infancy Today smart sensors can collaborate directly with machines to automate decision making or to control a task without human involvement Further smart technologies including green electronics green radios fuzzy neural approaches and intelligent signal processing techniques play an important role in the development of the wearable healthcare devices **Introduction to Grid and Cloud Computing** Dr. R. Deepalakshmi,Dr. P. Alli,M. Shyni Beaulah,2017-01-01 This book deals with Anna University Regulation 2013 for the Syllabus CS 6703 Introduction to Grid and Cloud Computing There are Five units covered in this book Following are the unit plan of the book UNIT I INTRODUCTION Evolution of Distributed computing Scalable computing over the Internet Technologies for network based systems clusters of cooperative computers Grid computing Infrastructures cloud computing service oriented architecture Introduction to Grid Architecture and standards Elements of Grid Overview of Grid Architecture UNIT II GRID SERVICES Introduction to Open Grid Services Architecture OGSA Motivation Functionality Requirements Practical Detailed view of OGSA OGSI Data intensive grid service models OGSA services UNIT III VIRTUALIZATION Cloud deployment models public private hybrid community Categories of cloud computing Everything as a service Infrastructure platform software Pros and Cons of cloud computing Implementation levels of virtualization virtualization structure virtualization of CPU Memory and I O devices virtual clusters and Resource Management Virtualization for data center automation UNIT IV PROGRAMMING MODEL Open source grid middleware packages Globus Toolkit GT4 Architecture Configuration Usage of Globus Main components and Programming model

Introduction to Hadoop Framework Mapreduce Input splitting map and reduce functions specifying input and output parameters configuring and running a job Design of Hadoop file system HDFS concepts command line and java interface dataflow of File read File write UNIT V SECURITY Trust models for Grid security environment Authentication and Authorization methods Grid security infrastructure Cloud Infrastructure security network host and application level aspects of data security provider data and its security Identity and access management architecture IAM practices in the cloud SaaS PaaS IaaS availability in the cloud Key privacy issues in the cloud **Parallel Computing Architectures and APIs** Vivek Kale,2019-12-06 Parallel Computing Architectures and APIs IoT Big Data Stream Processing commences from the point high performance uniprocessors were becoming increasingly complex expensive and power hungry A basic trade off exists between the use of one or a small number of such complex processors at one extreme and a moderate to very large number of simpler processors at the other When combined with a high bandwidth interprocessor communication facility leads to significant simplification of the design process However two major roadblocks prevent the widespread adoption of such moderately to massively parallel architectures the interprocessor communication bottleneck and the difficulty and high cost of algorithm software development One of the most important reasons for studying parallel computing architectures is to learn how to extract the best performance from parallel systems Specifically you must understand its architectures so that you will be able to exploit those architectures during programming via the standardized APIs This book would be useful for analysts designers and developers of high throughput computing systems essential for big data stream processing emanating from IoT driven cyber physical systems CPS This pragmatic book Devolves uniprocessors in terms of a ladder of abstractions to ascertain say performance characteristics at a particular level of abstraction Explains limitations of uniprocessor high performance because of Moore s Law Introduces basics of processors networks and distributed systems Explains characteristics of parallel systems parallel computing models and parallel algorithms Explains the three primary categorical representatives of parallel computing architectures namely shared memory message passing and stream processing Introduces the three primary categorical representatives of parallel programming APIs namely OpenMP MPI and CUDA Provides an overview of Internet of Things IoT wireless sensor networks WSN sensor data processing Big Data and stream processing Provides introduction to 5G communications Edge and Fog computing Parallel Computing Architectures and APIs IoT Big Data Stream Processing discusses stream processing that enables the gathering processing and analysis of high volume heterogeneous continuous Internet of Things IoT big data streams to extract insights and actionable results in real time Application domains requiring data stream management include military homeland security sensor networks financial applications network management web site performance tracking real time credit card fraud detection etc *Springer Handbook of Internet of Things* Sébastien Ziegler, Renáta Radócz, Adrian Quesada Rodriguez, Sara Nieves Matheu Garcia,2024-10-21 This handbook is an authoritative comprehensive reference on Internet of Things written for practitioners

researchers and students around the world This book provides a definitive single point of reference material for all those interested to find out information about the basic technologies and approaches that are used to design and deploy IoT applications across a vast variety of different application fields spanning from smart buildings smart cities smart factories smart farming building automation connected vehicles and machine to machine communication The book is divided into ten parts each edited by top experts in the field The parts include IoT Basics IoT Hardware and Components Architecture and Reference Models IoT Networks Standards Overview IoT Security and Privacy From Data to Knowledge and Intelligence Application Domains Testbeds and Deployment and End User Engagement The contributors are leading authorities in the fields of engineering and represent academia industry and international government and regulatory agencies

Cooperative and Distributed Intelligent Computation in Fog Computing Hoa Tran-Dang,Dong-Seong

Kim,2023-06-22 This informative text reference presents a detailed review of the state of the art in fog computing paradigm In particular the book examines a broad range of important cooperative and distributed computation algorithms along with their design objectives and technical challenges The coverage includes the conceptual fundamental of fog computing its practical applications cooperative and distributed computation algorithms using optimization swarm intelligence matching theory and reinforcement learning methods Discussions are also provided on remaining challenges and open research issues for designing and developing the efficient distributed computation solutions in the next generation of fog enabled IoT systems

Software-Defined Networking for Future Internet Technology Kshira Sagar Sahoo,Bibhudatta Sahoo,Brojo Kishore Mishra,2021-09-30 Network infrastructures are growing rapidly to meet the needs of business but the required repolicing and reconfiguration provide challenges that need to be addressed The software defined network SDN is the future generation of Internet technology that can help meet these challenges of network management This book includes quantitative research case studies conceptual papers model papers review papers and theoretical backing on SDN This book investigates areas where SDN can help other emerging technologies deliver more efficient services such as IoT industrial IoT NFV big data blockchain cloud computing and edge computing The book demonstrates the many benefits of SDNs such as reduced costs ease of deployment and management better scalability availability flexibility and fine grained control of traffic and security The book demonstrates the many benefits of SDN such as reduced costs ease of deployment and management better scalability availability flexibility and fine grained control of traffic and security Chapters in the volume address Design considerations for security issues and detection methods State of the art approaches for mitigating DDos attacks using SDN Big data using Apache Hadoop for processing and analyzing large amounts of data Different tools used for attack simulation Network policies and policy management approaches that are widely used in the context of SDN Dynamic flow tables or static flow table management A new four tiered architecture that includes cloud SDN controller and fog computing Architecture for keeping computing resources available near the industrial IoT network through edge computing The impact

of SDN as an innovative approach for smart city development More The book will be a valuable resource for SDN researchers as well as academicians research scholars and students in the related areas **Euro-Par 2017: Parallel Processing Workshops** Dora B. Heras,Luc Bougé,Gabriele Mencagli,Emmanuel Jeannot,Rizos Sakellariou,Rosa M. Badia,Jorge G. Barbosa,Laura Ricci,Stephen L. Scott,Stefan Lankes,Josef Weidendorfer,2018-02-07 This book constitutes the proceedings of the workshops of the 23rd International Conference on Parallel and Distributed Computing Euro Par 2017 held in Santiago de Compostela Spain in August 2017 The 59 full papers presented were carefully reviewed and selected from 119 submissions Euro Par is an annual international conference in Europe covering all aspects of parallel and distributed processing These range from theory to practice from small to the largest parallel and distributed systems and infrastructures from fundamental computational problems to full edged applications from architecture compiler language and interface design and implementation to tools support infrastructures and application performance aspects **Predictive Analytics in Cloud, Fog, and Edge Computing** Hiren Kumar Thakkar,Chinmaya Kumar Dehury,Prasan Kumar Sahoo,Bharadwaj Veeravalli,2022-12-16 This book covers the relationship of recent technologies such as Blockchain IoT and 5G with the cloud computing as well as fog computing and mobile edge computing The relationship will not be limited to only architecture proposal trends and technical advancements However the book also explores the possibility of predictive analytics in cloud computing with respect to Blockchain IoT and 5G The recent advancements in the internet supported distributed computing i e cloud computing has made it possible to process the bulk amount of data in a parallel and distributed This has made it a lucrative technology to process the data generated from technologies such as Blockchain IoT and 5G However there are several issues a Cloud Service Provider CSP encounters such as Blockchain security in cloud IoT elasticity and scalability management in cloud Service Level Agreement SLA compliances for 5G Resource management Load balancing and Fault tolerance This edited book will discuss the aforementioned issues in connection with Blockchain IoT and 5G Moreover the book discusses how the cloud computing is not sufficient and one needs to use fog computing and edge computing to efficiently process the data generated from IoT and 5G Moreover the book shows how smart city smart healthcare system and smart communities are few of the most relevant IoT applications where fog computing plays a significant role The book discusses the limitation of fog computing and the need for the edge computing to further reduce the network latency to process streaming data from IoT devices The book also explores power of predictive analytics of Blockchain IoT and 5G data in cloud computing with its sister technologies Since the amount of resources increases day by day artificial intelligence AI tools are becoming more popular due to their capability which can be used in solving wide variety of issues such as minimize the energy consumption of physical servers optimize the service cost improve the quality of experience increase the service availability efficiently handle the huge data flow manages the large number of IoT devices etc **Algorithms and Architectures for Parallel Processing** Jaideep Vaidya,Jin Li,2018-12-07 The four volume set LNCS 11334 11337

constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2018 held in Guangzhou China in November 2018 The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Distributed and Parallel Computing High Performance Computing Big Data and Information Processing Internet of Things and Cloud Computing and Security and Privacy in Computing

Wireless Artificial Intelligent Computing Systems and Applications Zhipeng Cai, Yongxin Zhu, Yonghao Wang, Meikang Qiu, 2025-06-22 The 3 volume set LNCS 15686 15688 constitutes the proceedings of the 19th International Conference on Wireless Artificial Intelligent Computing Systems and Applications WASA 2025 which took place in Tokyo Japan during June 24 26 2025 The 70 full papers and 34 short papers included in the proceedings were carefully reviewed and selected from 282 submissions The proceedings also contain 10 papers from the AICom2 symposium WASA is a prestigious annual gathering that serves as a global platform for researchers academics and industry professionals to explore and exchange cuttingedge ideas research findings and innovative solutions at the dynamic intersection of wireless technologies and artificial intelligence AI computing systems

Distributed and Parallel Computing Sandhya Avasthi, Suman Lata Tripathi, 2025-11-10 Master the growing field of distributed and parallel computing with this essential guide offering expert insights into the fundamentals and real world applications for intelligent and collaborative systems Distributed computing or running programs across multiple computers over a network is becoming a popular solution for addressing the demands for increased performance across industries including scientific computing oil exploration biotechnology and medicine Distributed computing enables seamless communication and collaboration by allowing users from different locations to access and interact with their digital twin simultaneously Distributed computing enhances the capabilities of digital twins by providing scalability parallel processing real time data integration collaboration support resource optimization fault tolerance and security features Distributed and Parallel Computing explores the fundamentals and innovations in intelligent and distributed computing systems and applications including adaptivity and learning agents and multi agent systems argumentation case based reasoning and collaborative systems Through expert insights readers will discover promising real world applications for this emerging technology

Managing Internet of Things Applications Across Edge and Cloud Data Centres Rajiv Ranjan, Karan Mitra, Prem Prakash Jayaraman, Albert Y. Zomaya, 2024-06-11 This book covers state of the art interdisciplinary research on key disruptive and interrelated technologies such as Big Data Edge computing IoT and Cloud computing The authors address the challenges from a distributed system perspective with clear contributions in theory and applications Real world case studies look at the integration of these technologies in healthcare disaster management smart grids and other areas The book covers vital topics including devices and sensing cloud and edge Infrastructure big data processing application resource management and privacy and security

Cyber Security in Parallel and Distributed Computing Dac-Nhuong Le, Raghvendra Kumar, Brojo Kishore Mishra, Jyotir Moy

Chatterjee, Manju Khari, 2019-03-20 The book contains several new concepts techniques applications and case studies for cyber securities in parallel and distributed computing The main objective of this book is to explore the concept of cybersecurity in parallel and distributed computing along with recent research developments in the field Also included are various real time offline applications and case studies in the fields of engineering and computer science and the modern tools and technologies used Information concerning various topics relating to cybersecurity technologies is organized within the sixteen chapters of this book Some of the important topics covered include Research and solutions for the problem of hidden image detection Security aspects of data mining and possible solution techniques A comparative analysis of various methods used in e commerce security and how to perform secure payment transactions in an efficient manner Blockchain technology and how it is crucial to the security industry Security for the Internet of Things Security issues and challenges in distributed computing security such as heterogeneous computing cloud computing fog computing etc Demonstrates the administration task issue in unified cloud situations as a multi target enhancement issue in light of security Explores the concepts of cybercrime and cybersecurity and presents the statistical impact it is having on organizations Security policies and mechanisms various categories of attacks e g denial of service global security architecture along with distribution of security mechanisms Security issues in the healthcare sector with existing solutions and emerging threats

Advances on P2P, Parallel, Grid, Cloud and Internet Computing Leonard Barolli, 2023-10-28 P2P Grid Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale Grid Computing originated as a paradigm for high performance computing as an alternative to expensive supercomputers through different forms of large scale distributed computing P2P Computing emerged as a new paradigm after client server and web based computing and has shown useful to the development of social networking Business to Business B2B Business to Consumer B2C Business to Government B2G Business to Employee B2E and so on Cloud Computing has been defined as a computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits Cloud computing has fast become the computing paradigm with applicability and adoption in all application domains and providing utility computing at large scale Finally Internet Computing is the basis of any large scale distributed computing paradigms it has very fast developed into a vast area of flourishing field with enormous impact on today s information societies serving thus as a universal platform comprising a large variety of computing forms such as Grid P2P Cloud and Mobile computing The aim of the book is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to P2P Grid Cloud and Internet Computing as well as to reveal synergies among such large scale computing paradigms

Fog and Edge Computing Rajkumar Buyya, Satish Narayana Srirama, 2019-01-04 A comprehensive guide to Fog and Edge applications architectures and technologies Recent years have

seen the explosive growth of the Internet of Things IoT the internet connected network of devices that includes everything from personal electronics and home appliances to automobiles and industrial machinery Responding to the ever increasing bandwidth demands of the IoT Fog and Edge computing concepts have developed to collect analyze and process data more efficiently than traditional cloud architecture Fog and Edge Computing Principles and Paradigms provides a comprehensive overview of the state of the art applications and architectures driving this dynamic field of computing while highlighting potential research directions and emerging technologies Exploring topics such as developing scalable architectures moving from closed systems to open systems and ethical issues rising from data sensing this timely book addresses both the challenges and opportunities that Fog and Edge computing presents Contributions from leading IoT experts discuss federating Edge resources middleware design issues data management and predictive analysis smart transportation and surveillance applications and more A coordinated and integrated presentation of topics helps readers gain thorough knowledge of the foundations applications and issues that are central to Fog and Edge computing This valuable resource Provides insights on transitioning from current Cloud centric and 4G 5G wireless environments to Fog Computing Examines methods to optimize virtualized pooled and shared resources Identifies potential technical challenges and offers suggestions for possible solutions Discusses major components of Fog and Edge computing architectures such as middleware interaction protocols and autonomic management Includes access to a website portal for advanced online resources Fog and Edge Computing Principles and Paradigms is an essential source of up to date information for systems architects developers researchers and advanced undergraduate and graduate students in fields of computer science and engineering

Euro-Par 2019: Parallel Processing Workshops Ulrich Schwardmann,Christian Boehme,Dora B. Heras,Valeria Cardellini,Emmanuel Jeannot,Antonio Salis,Claudio Schifanella,Ravi Reddy Manumachu,Dieter Schwamborn,Laura Ricci,Oh Sangyoon,Thomas Gruber,Laura Antonelli,Stephen L. Scott,2020-05-29 This book constitutes revised selected papers from the workshops held at 25th International Conference on Parallel and Distributed Computing Euro Par 2019 which took place in G ttingen Germany in August 2019 The 53 full papers and 10 poster papers presented in this volume were carefully reviewed and selected from 77 submissions Euro Par is an annual international conference in Europe covering all aspects of parallel and distributed processing These range from theory to practice from small to the largest parallel and distributed systems and infrastructures from fundamental computational problems to full edged applications from architecture compiler language and interface design and implementation to tools support infrastructures and application performance aspects Chapter In Situ Visualization of Performance Related Data in Parallel CFD Applications is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Advances on P2P, Parallel, Grid, Cloud and Internet Computing Fatos Xhafa,Fang-Yie Leu,Massimo Ficco,Chao-Tung Yang,2018-10-16 This book presents the latest research findings as well as innovative theoretical and practical research results methods and development techniques related to P2P

grid cloud and Internet computing It also reveals the synergies among such large scale computing paradigms P2P Grid Cloud and Internet computing technologies have rapidly become established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources on a large scale Grid computing originated as a paradigm for high performance computing offering an alternative to expensive supercomputers through different forms of large scale distributed computing P2P computing emerged as a new paradigm following on from client server and web based computing and has proved useful in the development of social networking B2B Business to Business B2C Business to Consumer B2G Business to Government and B2E Business to Employee Cloud computing has been described as a computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits Cloud computing has fast become the computing paradigm with applicability and adoption in all domains and providing utility computing at large scale Lastly Internet computing is the basis of any large scale distributed computing paradigm it has very quickly developed into a vast and flourishing field with enormous impact on today s information societies and serving as a universal platform comprising a large variety of computing forms such as grid P2P cloud and mobile computing

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