

Load Balancing In Cloud Computing

International Conference, WISM 2010, Sanya, China, October 23-24, 2010 : Proceedings
 Proceedings of IEPCCCT 2019
 Proceedings of ICICC 2019, Volume 1
 Principles and Paradigms
 Algorithms for Energy Efficient Load Balancing in Cloud Environments
 Server Load Balancing
 Role of Edge Analytics in Sustainable Smart City Development
 Third International Conference, BDCA 2018, Kenitra, Morocco, April 4-5, 2018, Revised Selected Papers
 Cloud Computing
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 Computational Intelligence in Data Mining
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 CLOUD COMPUTING
 Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing
 Intelligent and Cloud Computing
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 Ride the Performance Tiger
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 Application Delivery and Load Balancing in Microsoft Azure
 Innovative Data Communication Technologies and Application
 Technologies and Strategies of the Ubiquitous Data Center
 Concepts, Technology & Architecture
 Cloud Application Architectures
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 Wireless Networks and Security Proceedings of the Second International Conference on Advanced Computing, Networking and Informatics (ICACNI-2014)
 ICIDCA 2019
 Innovation in Electrical Power Engineering, Communication, and Computing Technology
 Intelligent and Cloud Computing

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International Conference, WISM 2010, Sanya, China, October 23-24, 2010 : Proceedings
 GRIN Verlag

The International Conference on “Computational Intelligence in Data Mining” (ICCIDM), after three successful versions, has reached to its fourth version with a lot of aspiration. The best selected conference papers are reviewed and compiled to form this volume. The proceedings discusses the latest solutions, scientific results and methods in solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field.

Proceedings of IEPCCCT 2019 Springer

Information retrieval (IR) is considered to be the science of searching for information from a variety of information sources related to texts, images, sounds, or multimedia. With the rise of the internet and digital databases, updated information retrieval methodologies are essential to ensure the continued facilitation and enhancement of information exchange. Critical Approaches to Information Retrieval Research is a critical scholarly publication that provides multidisciplinary examinations of theoretical innovations and methods in information retrieval technologies including search and storage applications for data, text, image, sound, document, and video retrieval. Featuring a wide range of topics including data mining, machine learning, and ontology, this book is ideal for librarians, software engineers, data scientists, professionals, researchers, information engineers, scientists, practitioners, and academicians working in the fields of computer science, information technology, information and communication sciences, education, health, library, and more.

Proceedings of ICICC 2019, Volume 1 Springer Nature

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Principles and Paradigms Comparative Analysis of Load Balancing Algorithms in Cloud Computing

Abstract: Cloud computing is a novel trend emerging in Information Technology (IT) environments with immense infrastructure and resources. An integral aspect of cloud computing is load balancing. Efficient load balancing in cloud computing ensures effective resource utilization. There are two types of load balancers: the static load balancer and the dynamic load balancer. While both types of load balancers are widely used in the industry, they differ in performance. In this project, the performances of the most widely used static and dynamic load balancers, namely the round robin and the throttled, are compared. Specifically, the project examines whether the throttled algorithm takes less time than the round robin algorithm to access data in cloud computing. The results show that the throttled algorithm takes less time than the round robin algorithm to access data, and that this difference is due to a faultiness in the implementation of the round robin algorithm. Novel Practices and Trends in Grid and Cloud Computing

Efficient Single Board Computers (SBCs) and advanced VLSI systems have resulted in edge analytics and faster decision making. The QoS parameters like energy, delay, reliability, security, and

throughput should be improved on seeking better intelligent expert systems. The resource constraints in the Edge devices, challenges the researchers to meet the required QoS. Since these devices and components work in a remote unattended environment, an optimum methodology to improve its lifetime has become mandatory. Continuous monitoring of events is mandatory to avoid tragic situations; it can only be enabled by providing high QoS. The applications of IoT in digital twin development, health care, traffic analysis, home surveillance, intelligent agriculture monitoring, defense and all common day to day activities have resulted in pioneering embedded devices, which can offer high computational facility without much latency and delay. The book address industrial problems in designing expert system and IoT applications. It provides novel survey and case study report on recent industrial approach towards Smart City development.

Algorithms for Energy Efficient Load Balancing in Cloud Environments Springer

Comparative Analysis of Load Balancing Algorithms in Cloud Computing

Server Load Balancing Springer Nature

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Role of Edge Analytics in Sustainable Smart City Development IGI Global

The purpose of this book is first to study cloud computing concepts, security concern in clouds and data centers, live migration and its importance for cloud computing, the role of firewalls in domains with particular focus on virtual machine (VM) migration and its security concerns. The book then tackles design, implementation of the frameworks and prepares test-beds for testing and evaluating VM migration procedures as well as firewall rule migration. The book demonstrates how cloud computing can produce an effective way of network management, especially from a security perspective.

Third International Conference, BDCA 2018, Kenitra, Morocco, April 4-5, 2018, Revised Selected Papers O'Reilly Media

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 Chunming Rong, Martin Gilje Jaatun, and Frode Eika Sandnes. This first conference was organized by the Beijing Jitong 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 believe that cloud computing makes data truly mobile, allowing 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.

Cloud Computing IGI Global

Seminar paper from the year 2013 in the subject Computer Science - Commercial Information Technology, grade: 1.0, Otto-von-Guericke-University Magdeburg (Faculty of Computer Science), course: Recent Topics in Business Informatics, language: English, abstract: Energy efficiency has a rising importance throughout society. With the growth of large data centers, the energy consumption becomes centralized and nowadays takes a significant amount of the overall electricity consumption of a country. Load balancing algorithms are able to make an existing infrastructure more efficient without major drawbacks. This structured literature research presents the state of the art technology regarding the load balancing approach to make data centers more energy efficient. The state of the art approaches are reviewed for techniques, improvements and consideration of performance effects.

Cloud Computing and Virtualization PHI Learning Pvt. Ltd.

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

Proceedings of the International Conference on CIDM 2017 "O'Reilly Media, Inc."

This well-organized book presents the principles, techniques, design, and implementation of cloud computing, with a perfect balance in the presentation of theoretical and practical aspects. The book, after providing a brief introduction to the subject, gives a clear analysis of different cloud computing models and explains all the relevant concepts on virtualization, security issues and challenges in cloud computing. In addition to this, the book introduces the reader with some of the prominent cloud service provider companies like Amazon, Microsoft and Google, and discusses the various features of these web services. Further, to provide the necessary background required to understand the principles of cloud computing, the roadmap for migration of application to cloud and roles of different standards used for cloud computing are discussed in detail. The discussion ends after addressing mobile cloud computing and microservices—the recent advances in cloud computing. The book is primarily intended for the undergraduate and postgraduate students of computer science and engineering, and information technology.

Big Data Analytics John Wiley & Sons

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people 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 unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

First International Conference, CloudCom 2009, Beijing, China, December 1-4, 2009, Proceedings Springer

The conference covers the subject areas including digital IC design, analog RF Mixed Signal IC design, Device Modeling and Technology, RF communication circuits, embedded systems nonlinear circuits and system In addition to the technical papers, the conference also covers tutorials on recent advancements in the above said areas, Keynote and Plenary sessions by leading industry leaders and renowned academicians

Computational Intelligence in Data Mining Springer Nature

The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Deep Learning Approaches to Cloud Security John Wiley & Sons

The emergence of the cloud and modern, fast corporate networks demands that you perform judicious balancing of computational loads. Practical Load Balancing presents an entire analytical framework to increase performance not just of one machine, but of your entire infrastructure. Practical Load Balancing starts by introducing key concepts and the tools you'll need to tackle your load-balancing issues. You'll travel through the IP layers and learn how they can create increased network traffic for you. You'll see how to account for persistence and state, and how you can judge the performance of scheduling algorithms. You'll then learn how to avoid performance degradation and any risk of the sudden disappearance of a service on a server. If you're concerned with running your load balancer for an entire network, you'll find out how to set up your network topography, and

condense each topographical variety into recipes that will serve you in different situations. You'll also learn about individual servers, and load balancers that can perform cookie insertion or improve your SSL throughput. You'll also explore load balancing in the modern context of the cloud. While load balancers need to be configured for high availability once the conditions on the network have been created, modern load balancing has found its way into the cloud, where good balancing is vital for the very functioning of the cloud, and where IPv6 is becoming ever more important. You can read Practical Load Balancing from end to end or out of sequence, and indeed, if there are individual topics that interest you, you can pick up this book and work through it once you have read the first three chapters.

2017 International Conference on Microelectronic Devices, Circuits and Systems (ICMDCS) "O'Reilly Media, Inc."

Annotation This book constitutes the refereed proceedings of the International Conference on Web Information Systems and Mining, WISM 2010, held in Sanya, China, on October 23-24, 2010. The 54 revised full papers presented in this volume were carefully reviewed and selected from 603 submissions. The papers are organized in topical sections on applications of web information systems, applications of web mining, distributed systems, e-government and e-commerce, geographic information systems, information security, intelligent networked systems, management information systems, mobile computing, web content mining, web information classification, web information retrieval, web services and e-learning, and XML and semi-structured data.

Proceedings of CSI 2015 IGI Global

Exchange of information and innovative ideas are necessary to accelerate the development of technology. With advent of technology, intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the 'Advances in Computer and Computational Sciences' from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Computer, Communication and Computational Sciences (ICCCCS 2016), held during 12-13 August, 2016 in Ajmer, India'. These papers are arranged in the form of chapters. The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design, advanced communications, power and energy optimization, intelligent techniques used in internet of things, intelligent image processing, advanced software engineering, evolutionary and soft computing, security and many more. This book helps the perspective readers' from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications.

CLOUD COMPUTING Springer

This book discusses harnessing the real power of cloud computing in optimization problems, presenting state-of-the-art computing paradigms, advances in applications, and challenges concerning both the theories and applications of cloud computing in optimization with a focus on diverse fields like the Internet of Things, fog-assisted cloud computing, and big data. In real life, many problems – ranging from social science to engineering sciences – can be identified as complex optimization problems. Very often these are intractable, and as a result researchers from industry as well as the academic community are concentrating their efforts on developing methods of addressing them. Further, the cloud computing paradigm plays a vital role in many areas of interest, like resource allocation, scheduling, energy management, virtualization, and security, and these areas are intertwined with many optimization problems. Using illustrations and figures, this book offers students and researchers a clear overview of the concepts and practices of cloud computing and its use in numerous complex optimization problems.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Springer

This proceedings volume contains selected papers that were presented in the 3rd International Symposium on Big data and Cloud Computing Challenges, 2016 held at VIT University, India on March 10 and 11. New research issues, challenges and opportunities shaping the future agenda in the field of Big Data and Cloud Computing are identified and presented throughout the book, which is intended for researchers, scholars, students, software developers and practitioners working at the forefront in their field. This book acts as a platform for exchanging ideas, setting questions for discussion, and sharing the experience in Big Data and Cloud Computing domain.

Intelligent and Cloud Computing John Wiley & Sons

This book is open access under a CC BY 4.0 license. This book summarizes work being undertaken within the collaborative MODAClouds research project, which aims to facilitate interoperability between heterogeneous Cloud platforms and remove the constraints of deployment, portability, and reversibility for end users of Cloud services. Experts involved in the project provide a clear overview of the MODAClouds approach and explain how it operates in a variety of applications. While the wide spectrum of available Clouds constitutes a vibrant technical environment, many early-stage issues pose specific challenges from a software engineering perspective. MODAClouds will provide methods, a decision support system, and an open source IDE and run-time environment for the high-level design, early prototyping, semiautomatic code generation, and automatic deployment of applications on multiple Clouds. It will free developers from the need to commit to a fixed Cloud technology stack during software design and offer benefits in terms of cost savings, portability of applications and data between Clouds, reversibility (moving applications and data from Cloud to non-Cloud environments), risk management, quality assurance, and flexibility in the development process.

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