Zaigham Mahmood *Editor*

Cloud Computing

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Cloud Computing Methods And Practical Approaches Computer Communications And Networks

Zaigham Mahmood

Cloud Computing Methods And Practical Approaches Computer Communications And Networks:

Cloud Computing Zaigham Mahmood,2013-05-16 This book presents both state of the art research developments and practical guidance on approaches technologies and frameworks for the emerging cloud paradigm Topics and features presents the state of the art in cloud technologies infrastructures and service delivery and deployment models discusses relevant theoretical frameworks practical approaches and suggested methodologies offers guidance and best practices for the development of cloud based services and infrastructures and examines management aspects of cloud computing reviews consumer perspectives on mobile cloud computing and cloud based enterprise resource planning explores software performance testing open source cloudware support and assessment methodologies for modernization migration and pre migration describes emerging new methodologies relevant to the cloud paradigm and provides suggestions for future developments and research directions **Computational Methods and Data Engineering** Vijendra Singh,Vijayan K. Asari,Sanjay Kumar,R. B. Patel,2020-11-04 This book gathers selected high quality research papers from the International Conference on Computational Methods and Data Engineering ICMDE 2020 held at SRM University Sonipat Delhi NCR India Focusing on cutting edge technologies and the most dynamic areas of computational intelligence and data engineering the respective contributions address topics including collective intelligence intelligent transportation systems fuzzy systems data privacy and security data mining data warehousing big data analytics cloud computing natural language processing swarm intelligence and speech processing **Novel 3D Media Technologies** Ahmet Kondoz,Tasos Dagiuklas,2014-11-14 This book describes recent innovations in 3D media and technologies with coverage of 3D media capturing processing encoding and adaptation networking aspects for 3D Media and quality of user experience QoE The contributions are based on the results of the FP7 European Project ROMEO which focuses on new methods for the compression and delivery of 3D multi view video and spatial audio as well as the optimization of networking and compression jointly across the future Internet The delivery of 3D media to individual users remains a highly challenging problem due to the large amount of data involved diverse network characteristics and user terminal requirements as well as the user s context such as their preferences and location As the number of visual views increases current systems will struggle to meet the demanding requirements in terms of delivery of consistent video quality to fixed and mobile users ROMEO will present hybrid networking solutions that combine the DVB T2 and DVB NGH broadcast access network technologies together with a QoE aware Peer to Peer P2P distribution system that operates over wired and wireless links Live streaming 3D media needs to be received by collaborating users at the same time or with imperceptible delay to enable them to watch together while exchanging comments as if they were all in the same location This book is the second of a series of three annual volumes devoted to the latest results of the FP7 European Project ROMEO The present volume provides state of the art information on immersive media 3D multi view video spatial audio cloud based media networking protocols for 3D media P2P 3D media streaming and

3D Media delivery across heterogeneous wireless networks among other topics Graduate students and professionals in electrical engineering and computer science with an interest in 3D Future Internet Media will find this volume to be essential reading Describes the latest innovations in 3D technologies and Future Internet Media Focuses on research to facilitate application scenarios such as social TV and high quality real time collaboration Discusses QoE for 3D Represents the last of a series of three volumes devoted to contributions from FP7 projects in the area of 3D and networked media **Cloud Computing** Zaigham Mahmood,2014-10-20 This book reviews the challenging issues that present barriers to greater implementation of the cloud computing paradigm together with the latest research into developing potential solutions Topics and features presents a focus on the most important issues and limitations of cloud computing covering cloud security and architecture QoS and SLAs discusses a methodology for cloud security management and proposes a framework for secure data storage and identity management in the cloud introduces a simulation tool for energy aware cloud environments and an efficient congestion control system for data center networks examines the issues of energy aware VM consolidation in the IaaS provision and software defined networking for cloud related applications reviews current trends and suggests future developments in virtualization cloud security QoS data warehouses cloud federation approaches and DBaaS provision predicts how the next generation of utility computing infrastructures will be designed Integration of Cloud Computing with Emerging Technologies Sapna Sinha,Vishal Bhatnagar,Prateek Agrawal,Vikram Bali,2023-10-30 This book gives a complete overview of cloud computing its importance its trends innovations and its amalgamation with other technologies Key Features In depth explanation of emerging technologies utilizing cloud computing Supplemented with visuals flow charts and diagrams Real time examples included Caters to beginners as well as advanced researchers by explaining implications innovations issues and challenges of cloud computing Highlights the need for cloud computing and the true benefits derived by its application and integration in emerging technologies Simple easy language **Encyclopedia of Cloud Computing** San Murugesan,Irena Bojanova,2016-08-01 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing s impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information **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 **Handbook of Research on Cloud and Fog Computing Infrastructures for Data Science** Raj, Pethuru,Raman, Anupama,2018-05-18 Fog computing is quickly increasing its applications and uses to the next level As it continues to grow different types of virtualization technologies can thrust this branch of computing further into mainstream use The Handbook of Research on Cloud and Fog Computing Infrastructures for Data Science is a key reference volume on the latest research on the role of next generation systems and devices that are capable of self learning and how those devices will impact society Featuring wide ranging coverage across a variety of relevant views and themes such as cognitive analytics data mining algorithms and the internet of things this publication is ideally designed for programmers IT professionals students researchers and engineers looking for innovative research on software defined cloud infrastructures and domain specific analytics **Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security** Gupta, Brij,Agrawal, Dharma P.,Yamaguchi, Shingo,2016-05-16 Internet usage has become a facet of everyday life especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world However with this increased usage comes heightened threats to security within digital environments The Handbook of

Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention Featuring theoretical perspectives best practices and future research directions this handbook of research is a vital resource for professionals researchers faculty members scientists graduate students scholars and software developers interested in threat identification and prevention

   Continued Rise of the Cloud Zaigham Mahmood,2014-07-07 This book captures the state of the art in cloud technologies infrastructures and service delivery and deployment models The work provides guidance and case studies on the development of cloud based services and infrastructures from an international selection of expert researchers and practitioners Features presents a focus on security and access control mechanisms for cloud environments analyses standards and brokerage services and investigates the role of certification for cloud adoption evaluates cloud ERP suggests a framework for implementing big data science and proposes an approach for cloud interoperability reviews existing elasticity management solutions discusses the relationship between cloud management and governance and describes the development of a cloud service capability assessment model examines cloud applications in higher education including the use of knowledge as a service in the provision of education and cloud based e learning for students with disabilities

   Guide to Cloud Computing Richard Hill,Laurie Hirsch,Peter Lake,Siavash Moshiri,2012-11-28 This book describes the landscape of cloud computing from first principles leading the reader step by step through the process of building and configuring a cloud environment The book not only considers the technologies for designing and creating cloud computing platforms but also the business models and frameworks in real world implementation of cloud platforms Emphasis is placed on learning by doing and readers are encouraged to experiment with a range of different tools and approaches Topics and features includes review questions hands on exercises study activities and discussion topics throughout the text demonstrates the approaches used to build cloud computing infrastructures reviews the social economic and political aspects of the on going growth in cloud computing use discusses legal and security concerns in cloud computing examines techniques for the appraisal of financial investment into cloud computing identifies areas for further research within this rapidly moving field **Security and Privacy in Communication Networks** Raheem Beyah,Bing Chang,Yingjiu Li,Sencun Zhu,2018-12-28 This two volume set LNICST 254 255 constitutes the post conference proceedings of the 14thInternational Conference on Security and Privacy in Communication Networks SecureComm 2018 held in Singapore in August 2018 The 33 full and 18 short papers were carefully reviewed and selected from 108 submissions The papers are organized in topical sections on IoT security user and data privacy mobile security wireless security software security cloud security social network and enterprise security network security applied cryptography and web security **Software Project Management for Distributed Computing** Zaigham Mahmood,2017-04-04 This unique volume explores cutting edge management approaches to developing complex software that is efficient scalable sustainable and suitable for distributed

environments Practical insights are offered by an international selection of pre eminent authorities including case studies best practices and balanced corporate analyses Emphasis is placed on the use of the latest software technologies and frameworks for life cycle methods including the design implementation and testing stages of software development Topics and features Reviews approaches for reusability cost and time estimation and for functional size measurement of distributed software applications Discusses the core characteristics of a large scale defense system and the design of software project management SPM as a service Introduces the 3PR framework research on crowdsourcing software development and an innovative approach to modeling large scale multi agent software systems Examines a system architecture for ambient assisted living and an approach to cloud migration and management assessment Describes a software error proneness mechanism a novel Scrum process for use in the defense domain and an ontology annotation for SPM in distributed environments Investigates the benefits of agile project management for higher education institutions and SPM that combines software and data engineering This important text reference is essential reading for project managers and software engineers involved in developing software for distributed computing environments Students and researchers interested in SPM technologies and frameworks will also find the work to be an invaluable resource Prof Zaigham Mahmood is a Senior Technology Consultant at Debesis Education UK and an Associate Lecturer Research at the University of Derby UK He also holds positions as Foreign Professor at NUST and IIU in Islamabad Pakistan and Professor Extraordinaire at the North West University Potchefstroom South Africa   Software Engineering Frameworks for the Cloud Computing Paradigm Zaigham Mahmood,Saqib Saeed,2013-04-19 This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm drawn from an international selection of researchers and practitioners The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise wide software deployment in the cloud environment together with real world case studies Features presents the state of the art in software engineering approaches for developing cloud suitable applications discusses the impact of the cloud computing paradigm on software engineering offers guidance and best practices for students and practitioners examines the stages of the software development lifecycle with a focus on the requirements engineering and testing of cloud based applications reviews the efficiency and performance of cloud based applications explores feature driven and cloud aided software design provides relevant theoretical frameworks practical approaches and future research directions   **Cloud Computing for Enterprise Architectures** Zaigham Mahmood,Richard Hill,2011-12-01 This important text provides a single point of reference for state of the art cloud computing design and implementation techniques The book examines cloud computing from the perspective of enterprise architecture asking the question how do we realize new business potential with our existing enterprises Topics and features with a Foreword by Thomas Erl contains contributions from an international selection of preeminent experts presents the state of the art in enterprise architecture approaches with respect to cloud computing models frameworks

technologies and applications discusses potential research directions and technologies to facilitate the realization of emerging business models through enterprise architecture approaches provides relevant theoretical frameworks and the latest empirical research findings   Security and Risk Analysis for Intelligent Cloud Computing Ajay Kumar,Sangeeta Rani,Sarita Rathee,Surbhi Bhatia,2023-12-19 This edited book is a compilation of scholarly articles on the latest developments in the field of AI Blockchain and ML DL in cloud security This book is designed for security and risk assessment professionals and to help undergraduate postgraduate students research scholars academicians and technology professionals who are interested in learning practical approaches to cloud security It covers practical strategies for assessing the security and privacy of cloud infrastructure and applications and shows how to make cloud infrastructure secure to combat threats and attacks and prevent data breaches The chapters are designed with a granular framework starting with the security concepts followed by hands on assessment techniques based on real world studies Readers will gain detailed information on cloud computing security that until now has been difficult to access This book Covers topics such as AI Blockchain and ML DL in cloud security Presents several case studies revealing how threat actors abuse and exploit cloud environments to spread threats Explains the privacy aspects you need to consider in the cloud including how they compare with aspects considered in traditional computing models Examines security delivered as a service a different facet of cloud security   *Data Communication and Computer Networks* Jill West,2021-08-12 Whether you are preparing for a career as a business manager computer programmer or system designer or you simply want to be an informed home computer user West s DATA COMMUNICATIONS AND COMPUTER NETWORKS 9th Edition provides an understanding of the essential features operations and limitations of today s computer networks You learn about systems both on premises and in the cloud as the author balances technical concepts with practical everyday issues Updates address the latest developments and practices in cloud business principles and security techniques software defined networking 5G the Internet of Things data analytics and supporting remote workforces This edition also covers the CompTIA s Cloud Essentials exam to help you prepare for this vendor neutral business oriented cloud computing certification Hands on learning features and thought provoking content also guide you through virtual networking technologies industry convergence and wired and wireless LAN technologies   Guide to Security Assurance for Cloud Computing Shao Ying Zhu,Richard Hill,Marcello Trovati,2016-03-09 This practical and didactic text reference discusses the leading edge of secure cloud computing exploring the essential concepts and principles tools techniques and deployment models in this field Enlightening perspectives are presented by an international collection of pre eminent authorities in cloud security assurance from both academia and industry Topics and features Describes the important general concepts and principles of security assurance in cloud based environments Presents applications and approaches to cloud security that illustrate the current state of the art Reviews pertinent issues in relation to challenges that prevent organizations moving to cloud architectures Provides relevant theoretical frameworks and the

latest empirical research findings Discusses real world vulnerabilities of cloud based software in order to address the challenges of securing distributed software Highlights the practicalities of cloud security and how applications can assure and comply with legislation Includes review questions at the end of each chapter This Guide to Security Assurance for Cloud Computing will be of great benefit to a broad audience covering enterprise architects business analysts and leaders IT infrastructure managers cloud security engineers and consultants and application developers involved in system design and implementation The work is also suitable as a textbook for university instructors with the outline for a possible course structure suggested in the preface The editors are all members of the Computing and Mathematics Department at the University of Derby UK where Dr Shao Ying Zhu serves as a Senior Lecturer in Computing Dr Richard Hill as a Professor and Head of the Computing and Mathematics Department and Dr Marcello Trovati as a Senior Lecturer in Mathematics The other publications of the editors include the Springer titles Big Data Analytics and Cloud Computing Guide to Cloud Computing and Cloud Computing for Enterprise Architectures   Fog Computing Zaigham Mahmood,2018-07-12 This authoritative text reference describes the state of the art of fog computing presenting insights from an international selection of renowned experts A particular focus is provided on development approaches architectural mechanisms and measurement metrics for building smart adaptable environments The coverage also includes important related topics such as device connectivity security and interoperability and communication methods Topics and features introduces the core concepts and principles of fog computing and reviews the latest research and best practice relating to fog edge environments discusses the vision for an Internet of Things IoT in terms of fog computing and other related distributed computing paradigms such as cloud computing presents a survey of the key issues and broader aspects of the fog paradigm as well as the factors that affect adoption of fog computing examines frameworks and methodologies for fog based architecture design improving performance and measuring quality of experience proposes tools and methodologies for analyzing large amounts of sensor data from smart city initiatives describes approaches for designing robust services management of data intensive applications context aware data analysis and vehicular networking identifies potential future research directions and technological innovations in relation to distributed computing environments such as the IoT This enlightening volume offers essential perspectives for researchers of distributed computing and computer networking as well as for advanced undergraduate and graduate students pursuing interests in this area Professional engineers seeking to enhance security and connectivity in their IoT systems will also find this work to be a valuable reference   Connectivity Frameworks for Smart Devices Zaigham Mahmood,2016-07-25 This timely volume provides a review of the state of the art frameworks and methodologies for connecting diverse objects and devices according to the vision for an Internet of Things IoT A specific focus is placed on the communication security and privacy aspects of device connectivity in distributed environments Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to

the connectivity of heterogeneous smart and sensory devices Topics and features Examines aspects of device connectivity within the IoT Presents a resource based architecture for IoT and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data management in multi clouds and suggests an approach that addresses the debate over network neutrality in the IoT Describes issues of data security privacy access control and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the Internet of Vehicles and provides a perspective on developing smart sustainable cities This invaluable text reference will be of great benefit to a broad audience from students and researchers interested in the IoT vision to practicing communication engineers and network security specialists

Whispering the Strategies of Language: An Mental Journey through **Cloud Computing Methods And Practical Approaches Computer Communications And Networks**

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