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# E-learning based Cloud Computing Environment: A Systematic Review, Challenges, and Opportunities

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**ABSTRACT** New technologies drive educational shifts, transforming offline to online learning. This study investigates e-learning and cloud computing integration to understand synergies and their potential impact. The study addresses two primary research questions: the influence of e-learning on factors like architecture, software, performance, security, hardware, network, and virtual aspects, and the examination of cloud computing services and models such as SaaS, PaaS, IaaS, and S/O/A. The research aims to provide insights into how e-learning is incorporated in a cloud computing environment. The motivation behind this study is to investigate the intricate relationship between e-learning and cloud computing. By analyzing 154 scientific papers, the study delves into the specifics of this integration, highlighting trends and areas that have received more attention. The study examines e-learning in a cloud computing environment, focusing on architecture (27%), general topics (21%), software (19%), and performance (18%). Virtual environments have fewer security issues, while storage and network focus are more prevalent. Cloud computing services are mainly all services, with software as a service (18%), infrastructure as a service (17%), and platforms as a service (10%). Most studies are based on public clouds (74%), all other models (11%), and hybrid clouds (3%). The study examines e-learning integration in cloud computing, highlighting limitations in hybrid and private clouds, specialized infrastructure, and a gap in platforms and infrastructure offerings.

**INDEX TERMS** Cloud computing, E-learning, environment, educational, e-learning based Cloud computing, systematic.

# 2014 Ieee Base Paper On Cloud Computing

**Amit Kumar Bairwa, Varun  
Tiwari, Santosh Kumar  
Vishwakarma, Milan Tuba, Thittaporn  
Ganokratanaa**

## **2014 Ieee Base Paper On Cloud Computing:**

*Machine Intelligence for Research and Innovations* Om Prakash Verma,Lipo Wang,Rajesh Kumar,Anupam Yadav,Ranjeet Kumar Rout,2025-10-27 The book is a collection of high quality peer reviewed research papers presented in the Second International Conference on MACHine inTElligence for Research Innovations MAiTRI 2024 Summit held at National Institute of Technology Srinagar India during 21-23 June 2024 This book focuses on recent advancement in the theory and realization of machine intelligence MI and their tools and growing applications such as machine learning deep learning quantum machine learning real time computer vision pattern recognition natural language processing statistical modelling autonomous vehicles human interfaces computational intelligence and robotics *Cybersecurity in Cloud Computing* Akula Achari,2025-01-23 Cybersecurity in Cloud Computing delves into the security challenges and solutions in the rapidly evolving world of cloud technology We explore key concepts such as data protection threat detection and risk management within cloud environments The book highlights how cloud services can enhance scalability and flexibility while also presenting new security risks that need to be addressed Readers will gain insights into the latest cybersecurity practices including encryption methods identity management and multi factor authentication We also discuss the importance of developing a comprehensive security policy to safeguard cloud infrastructure Whether you are an IT professional or a business owner this book equips you with the tools to secure your digital assets and maintain data integrity in the cloud **Attribute-Based Encryption and Access Control** Dijiang Huang,Qiuxiang Dong,Yan Zhu,2020-02-25 This book covers a broader scope of Attribute Based Encryption ABE from the background knowledge to specific constructions theoretic proofs and applications The goal is to provide in depth knowledge usable for college students and researchers who want to have a comprehensive understanding of ABE schemes and novel ABE enabled research and applications The specific focus is to present the development of using new ABE features such as group based access ID based revocation and attributes management functions such as delegation federation and interoperability These new capabilities can build a new ABE based Attribute Based Access Control ABAC solution that can incorporate data access policies and control into ciphertext This book is also ideal for IT companies to provide them with the most recent technologies and research on how to implement data access control models for mobile and data centric applications where data access control does not need to rely on a fixed access control infrastructure It is also of interest to those working in security to enable them to have the most recent developments in data access control such as ICN and Blockchain technologies Features Covers cryptographic background knowledge for ABE and ABAC Features various ABE constructions to achieve integrated access control capabilities Offers a comprehensive coverage of ABE based ABAC Provides ABE applications with real world examples Advances the ABE research to support new mobile and data centric applications **Integrating Research and Practice in Software Engineering** Stan Jarzabek,Aneta Poniszewska-Marańda,Lech Madeyski,2019-08-02 In this book the authors highlight

recent findings that hold the potential to improve software products or development processes in addition they help readers understand new concepts and technologies and to see what it takes to migrate from old to new platforms Some of the authors have spent most of their careers in industry working at the frontiers of practice based innovation and are at the same time prominent researchers who have made significant academic contributions Others work together with industry to test in industrial settings the methods they ve developed in the lab The choice of subject and authors represent the key elements of this book Its respective chapters cover a wide range of topics from cloud computing to agile development applications of data science methods re engineering of aging applications into modern ones and business and requirements engineering Taken together they offer a valuable asset for practitioners and researchers alike     *Smart Computing and Communication*

Meikang Qiu,2017-01-11 This book constitutes the proceedings of the First International Conference on Smart Computing and Communication SmartCom 2016 held in Shenzhen China in December 2016 The 59 papers presented in this volume were carefully reviewed and selected from 210 submissions The conference focuses on both smart computing and communications fields and aims to collect recent academic work to improve the research and practical applications     **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

*Energy Efficient Computation Offloading in Mobile Edge Computing* Ying Chen,Ning Zhang,Yuan Wu,Sherman Shen,2022-10-30 This book provides a comprehensive review and in depth discussion of the state of the art research literature and propose energy efficient computation offloading and resources management for mobile edge computing MEC covering task offloading channel allocation frequency scaling and resource scheduling Since the task arrival process and channel conditions are stochastic and dynamic the authors first propose an energy efficient dynamic computing offloading scheme to minimize energy consumption and guarantee end devices delay performance To further improve energy efficiency combined with tail energy the authors present a computation offloading and frequency scaling scheme to jointly deal with the stochastic task allocation and CPU cycle frequency scaling for minimal energy consumption while guaranteeing the system stability They also investigate delay aware and energy efficient computation offloading in a dynamic MEC system with

multiple edge servers and introduce an end to end deep reinforcement learning DRL approach to select the best edge server for offloading and allocate the optimal computational resource such that the expected long term utility is maximized Finally the authors study the multi task computation offloading in multi access MEC via non orthogonal multiple access NOMA and accounting for the time varying channel conditions An online algorithm based on DRL is proposed to efficiently learn the near optimal offloading solutions Researchers working in mobile edge computing task offloading and resource management as well as advanced level students in electrical and computer engineering telecommunications computer science or other related disciplines will find this book useful as a reference Professionals working within these related fields will also benefit from this book

*The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy* John MacIntyre, Jinghua Zhao, Xiaomeng Ma, 2020-11-03 This book presents the proceedings of The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy SPIoT 2020 held in Shanghai China on November 6 2020 Due to the COVID 19 outbreak problem SPIoT 2020 conference was held online by Tencent Meeting It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including novel machine learning and big data analytics methods for IoT security data mining and statistical modelling for the secure IoT and machine learning based security detecting protocols which inspire the development of IoT security and privacy technologies The contributions cover a wide range of topics analytics and machine learning applications to IoT security data based metrics and risk assessment approaches for IoT data confidentiality and privacy in IoT and authentication and access control for data usage in IoT Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field

**Innovations in Computer Science and Engineering** H. S. Saini, Rishi Sayal, Sandeep Rawat, 2016-02-19 The book is a collection of high quality peer reviewed research papers presented at the third International Conference on Innovations in Computer Science and Engineering ICICSE 2015 held at Guru Nanak Institutions Hyderabad India during 7 8 August 2015 The book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques Researchers from academic and industry present their original work and exchange ideas information techniques and applications in the field of Communication Computing and Data Science and Analytics

Fog/Edge Computing For Security, Privacy, and Applications Wei Chang, Jie Wu, 2021-01-04 This book provides the state of the art development on security and privacy for fog edge computing together with their system architectural support and applications This book is organized into five parts with a total of 15 chapters Each area corresponds to an important snapshot The first part of this book presents an overview of fog edge computing focusing on its relationship with cloud technology and the future with the use of 5G communication Several applications of edge computing are discussed The second part of this book considers several security issues in fog edge computing including the secure storage and search

services collaborative intrusion detection method on IoT fog computing and the feasibility of deploying Byzantine agreement protocols in untrusted environments The third part of this book studies the privacy issues in fog edge computing It first investigates the unique privacy challenges in fog edge computing and then discusses a privacy preserving framework for the edge based video analysis a popular machine learning application on fog edge This book also covers the security architectural design of fog edge computing including a comprehensive overview of vulnerabilities in fog edge computing within multiple architectural levels the security and intelligent management the implementation of network function virtualization enabled multicasting in part four It explains how to use the blockchain to realize security services The last part of this book surveys applications of fog edge computing including the fog edge computing in Industrial IoT edge based augmented reality data streaming in fog edge computing and the blockchain based application for edge IoT This book is designed for academics researchers and government officials working in the field of fog edge computing and cloud computing Practitioners and business organizations e g executives system designers and marketing professionals who conduct teaching research decision making and designing fog edge technology will also benefit from this book The content of this book will be particularly useful for advanced level students studying computer science computer technology and information systems but also applies to students in business education and economics who would benefit from the information models and case studies therein *Internet of Things* Rajkumar Buyya, Amir Vahid Dastjerdi, 2016-05-11

*Internet of Things Principles and Paradigms* captures the state of the art research in Internet of Things its applications architectures and technologies The book identifies potential future directions and technologies that facilitate insight into numerous scientific business and consumer applications The Internet of Things IoT paradigm promises to make any electronic devices part of the Internet environment This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources To help realize the full potential of IoT the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them These challenges include the development of scalable architecture moving from closed systems to open systems designing interaction protocols autonomic management and the privacy and ethical issues around data sensing storage and processing Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust security and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications **Applied Data Science and Smart Systems** Jaiteg Singh, SB Goyal, Rajesh Kumar Kaushal, Naveen Kumar, Sukhjit Singh Sehra, 2024-07-22 The Second International Conference on Applied Data Science and Smart Systems ADSSS 2023 was held on 15 16 December 2023 at

Chitkara University Punjab India This multidisciplinary conference focussed on innovation and progressive practices in science technology and management The conference successfully brought together researchers academicians and practitioners across different domains such as artificial intelligence and machine learning software engineering automation data science business computing data communication and computer networks The presenters shared their most recent research works that are critical to contemporary business and societal landscape and encouraged the participants to devise solutions for real world challenges The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license Handbook of Research on Advanced Trends in Microwave and Communication Engineering El Oualkadi, Ahmed,Zbitou, Jamal,2016-08-25

Wireless communications have become invaluable in the modern world The market is going through a revolutionary transformation as new technologies and standards endeavor to keep up with demand for integrated and low cost mobile and wireless devices Due to their ubiquity there is also a need for a simplification of the design of wireless systems and networks The Handbook of Research on Advanced Trends in Microwave and Communication Engineering showcases the current trends and approaches in the design and analysis of reconfigurable microwave devices antennas for wireless applications and wireless communication technologies Outlining both theoretical and experimental approaches this publication brings to light the unique design issues of this emerging research making it an ideal reference source for engineers researchers graduate students and IT professionals **Service Science** Zhongjie Wang,Shangguang Wang,Hanchuan Xu,2023-07-26 This book constitutes selected papers presented at the 16th International Conference on Service Science ICSS 2023 held in Harbin China in May 2023 The 36 full papers and 2 short papers presented were thoroughly reviewed and selected from the 71 submissions They are organized in the following topical sections serverless edge computing edge services reliability intelligent services service application knowledge inspired service service ecosystem graph based service optimization AI inspired service optimization Cloud Computing – CLOUD 2020 Qi Zhang,Yingwei Wang,Liang-Jie Zhang,2020-09-17 This book constitutes the proceedings of the 13th International Conference on Cloud Computing CLOUD 2020 held as part of SCF 2020 during September 18 20 2020 The conference was planned to take place in Honolulu HI USA and was changed to a virtual format due to the COVID 19 pandemic The 16 full and 6 short papers presented were carefully reviewed and selected from 49 submissions They deal with the latest fundamental advances in the state of the art and practice of cloud computing identify emerging research topics and define the future of cloud computing **Enterprise Security** Victor Chang,Muthu Ramachandran,Robert J. Walters,Gary Wills,2017-03-18 Enterprise security is an important area since all types of organizations require secure and robust environments platforms and services to work with people data and computing applications The book provides selected papers of the Second International Workshop on Enterprise Security held in Vancouver Canada November 30 December 3 2016 in conjunction with CloudCom 2015 The 11 papers were selected from 24

submissions and provide a comprehensive research into various areas of enterprise security such as protection of data privacy and rights data ownership trust unauthorized access and big data ownership studies and analysis to reduce risks imposed by data leakage hacking and challenges of Cloud forensics

**Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization** Singh, Surjit, Mohan Sharma, Rajeew, 2019-03-29 ICT technologies have contributed to the advances in wireless systems which provide seamless connectivity for worldwide communication The growth of interconnected devices and the need to store manage and process the data from them has led to increased research on the intersection of the internet of things and cloud computing The Handbook of Research on the IoT Cloud Computing and Wireless Network Optimization is a pivotal reference source that provides the latest research findings and solutions for the design and augmentation of wireless systems and cloud computing The content within this publication examines data mining machine learning and software engineering and is designed for IT specialists software engineers researchers academicians industry professionals and students

*Managing Big Data in Cloud Computing Environments* Ma, Zongmin, 2016-02-02 Cloud computing has proven to be a successful paradigm of service oriented computing and has revolutionized the way computing infrastructures are abstracted and used By means of cloud computing technology massive data can be managed effectively and efficiently to support various aspects of problem solving and decision making Managing Big Data in Cloud Computing Environments explores the latest advancements in the area of data management and analysis in the cloud Providing timely research based information relating to data storage sharing extraction and indexing in cloud systems this publication is an ideal reference source for graduate students IT specialists researchers and professionals working in the areas of data and knowledge engineering

Cloud Computing in Medical Imaging Ayman El-Baz, Jasjit S. Suri, 2023-03-14 Today s healthcare organizations must focus on a lot more than just the health of their clients The infrastructure it takes to support clinical care delivery continues to expand with information technology being one of the most significant contributors to that growth As companies have become more dependent on technology for their clinical administrative and financial functions their IT departments and expenditures have had to scale quickly to keep up However as technology demands have increased so have the options for reliable infrastructure for IT applications and data storage The one that has taken center stage over the past few years is cloud computing Healthcare researchers are moving their efforts to the cloud because they need adequate resources to process store exchange and use large quantities of medical data Cloud Computing in Medical Imaging covers the state of the art techniques for cloud computing in medical imaging healthcare technologies and services The book focuses on Machine learning algorithms for health data security Fog computing in IoT based health care Medical imaging and healthcare applications using fog IoT networks Diagnostic imaging and associated services Image steganography for medical informatics This book aims to help advance scientific research within the broad field of cloud computing in medical imaging healthcare technologies and services It focuses on major trends and challenges



in this area and presents work aimed to identify new techniques and their use in biomedical analysis      Computation of Artificial Intelligence and Machine Learning Amit Kumar Bairwa, Varun Tiwari, Santosh Kumar Vishwakarma, Milan Tuba, Thittaporn Ganokratanaa, 2024-10-22 The two volume set CCIS 2184 2185 constitutes the refereed proceedings of the First International Conference on Computation of Artificial Intelligence and Machine Learning ICCAIML 2024 held in Jaipur India in January 18 19 2024 The 60 papers included in these volumes were carefully reviewed and selected from 645 submissions These papers focus on various subject areas within the field of Artificial Intelligence and Machine Learning such as Neural Networks and Deep Learning Natural Language Processing Computer Vision Reinforcement Learning Data Mining and Big Data Analytics AI in Healthcare and Biomedical Applications Autonomous Systems and Robotics AI Ethics and Fairness AI in Finance and Economics

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