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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.

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**Management Association, Information
Resources**



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Handbook of Research on Cloud Computing and Big Data Applications in IoT Gupta, B. B.,Agrawal, Dharma P.,2019-04-12 Today cloud computing big data and the internet of things IoT are becoming indubitable parts of modern information and communication systems They cover not only information and communication technology but also all types of systems in society including within the realms of business finance industry manufacturing and management Therefore it is critical to remain up to date on the latest advancements and applications as well as current issues and challenges The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles challenges and applications of cloud computing big data and IoT While highlighting topics such as fog computing language interaction and scheduling algorithms this publication is ideally designed for software developers computer engineers scientists professionals academicians researchers and students

Advanced Informatics for Computing Research Ashish Kumar Luhach,Dharm Singh,Pao-Ann Hsiung,Kamarul Bin Ghazali Hawari,Pawan Lingras,Pradeep Kumar Singh,2018-12-12 This two volume set CCIS 955 and CCIS 956 constitutes the refereed proceedings of the Second International Conference on Advanced Informatics for Computing Research ICAICR 2018 held in Shimla India in July 2018 The 122 revised full papers presented were carefully reviewed and selected from 427 submissions The papers are organized in topical sections on computing methodologies hardware information systems networks security and privacy computing methodologies

Trust & Fault in Multi Layered Cloud Computing Architecture Punit Gupta,Pradeep Kumar Gupta,2020-01-20 This book discusses various aspects of cloud computing in which trust and fault tolerance models are included in a multilayered cloud architecture The authors present a variety of trust and fault models used in the cloud comparing them based on their functionality and the layer in the cloud to which they respond Various methods are discussed that can improve the performance of cloud architectures in terms of trust and fault tolerance while providing better performance and quality of service to user The discussion also includes new algorithms that overcome drawbacks of existing methods using a performance matrix for each functionality This book provide readers with an overview of cloud computing and how trust and faults in cloud datacenters affects the performance and quality of service assured to the users Discusses fundamental issues related to trust and fault tolerance in Cloud Computing Describes trust and fault management techniques in multi layered cloud architecture to improve security reliability and performance of the system Includes methods to enhance power efficiency and network efficiency using trust and fault based resource allocation

Web-Based Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of

all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies *Mobile Big Data* Georgios Skourletopoulos,George Mastorakis,Constandinos X.

Mavromoustakis,Ciprian Dobre,Evangelos Pallis,2017-10-31 This book reports on the latest advances in mobile technologies for collecting storing and processing mobile big data in connection with wireless communications It presents novel approaches and applications in which mobile big data is being applied from an engineering standpoint and addresses future theoretical and practical challenges related to the big data field from a mobility perspective Further it provides an overview of new methodologies designed to take mobile big data to the Cloud enable the processing of real time streaming events on the move and enhance the integration of resource availability through the Anywhere Anything Anytime paradigm By providing both academia and industry researchers and professionals with a timely snapshot of emerging mobile big data centric systems and highlighting related pitfalls as well as potential solutions the book fills an important gap in the literature and fosters the further development in the area of mobile technologies for exploiting mobile big data **High Performance**

Computing in Clouds Edson Borin,Lúcia Maria A. Drummond,Jean-Luc Gaudiot,Alba Melo,Maicon Melo Alves,Philippe Olivier Alexandre Navaux,2023-07-05 This book brings a thorough explanation on the path needed to use cloud computing technologies to run High Performance Computing HPC applications Besides presenting the motivation behind moving HPC applications to the cloud it covers both essential and advanced issues on this topic such as deploying HPC applications and infrastructures designing cloud friendly HPC applications and optimizing a provisioned cloud infrastructure to run this family of applications Additionally this book also describes the best practices to maintain and keep running HPC applications in the cloud by employing fault tolerance techniques and avoiding resource wastage To give practical meaning to topics covered in this book it brings some case studies where HPC applications used in relevant scientific areas like Bioinformatics and Oil and Gas industry were moved to the cloud Moreover it also discusses how to train deep learning models in the cloud elucidating the key components and aspects necessary to train these models via different types of services offered by cloud providers Despite the vast bibliography about cloud computing and HPC to the best of our knowledge no existing manuscript has comprehensively covered these topics and discussed the steps methods and strategies to execute HPC applications in clouds Therefore we believe this title is useful for IT professionals and students and researchers interested in cutting edge technologies concepts and insights focusing on the use of cloud technologies to run HPC applications **Security and**

Privacy in Cyberspace Omprakash Kaiwartya,Keshav Kaushik,Sachin Kumar Gupta,Ashutosh Mishra,Manoj Kumar,2022-08-28 This book highlights the literature and the practical aspects to understand cybersecurity and privacy in

various networks and communication devices It provides details of emerging technologies on various networks by protecting the privacy and security of cyberspace This book presents state of the art advances in the field of cryptography and network security cybersecurity and privacy providing a good reference for professionals and researchers **Distributed**

Computing in Big Data Analytics Sourav Mazumder,Robin Singh Bhadoria,Ganesh Chandra Deka,2017-08-29 Big data technologies are used to achieve any type of analytics in a fast and predictable way thus enabling better human and machine level decision making Principles of distributed computing are the keys to big data technologies and analytics The mechanisms related to data storage data access data transfer visualization and predictive modeling using distributed processing in multiple low cost machines are the key considerations that make big data analytics possible within stipulated cost and time practical for consumption by human and machines However the current literature available in big data analytics needs a holistic perspective to highlight the relation between big data analytics and distributed processing for ease of understanding and practitioner use This book fills the literature gap by addressing key aspects of distributed processing in big data analytics The chapters tackle the essential concepts and patterns of distributed computing widely used in big data analytics This book discusses also covers the main technologies which support distributed processing Finally this book provides insight into applications of big data analytics highlighting how principles of distributed computing are used in those situations Practitioners and researchers alike will find this book a valuable tool for their work helping them to select the appropriate technologies while understanding the inherent strengths and drawbacks of those technologies 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 **Beyond Edge Computing** Ana Juan Ferrer,2023-03-22 This book explores the most recent Edge and Distributed Cloud computing research and industrial advances settling the basis for Advanced Swarm Computing developments It features the Swarm computing concepts and realizes it as an Ad hoc Edge Cloud architecture Unlike current techniques in Edge and Cloud computing that solely view IoT connected devices as sources of data Swarm computing aims at using the compute capabilities of IoT connected devices in coordination with current Edge and Cloud computing innovations In addition to being more widely available IoT connected devices are also quickly becoming more sophisticated in terms of their ability to carry considerable compute and storage resources Swarm computing and Ad

hoc Edge Cloud take full advantage of this trend to create on demand autonomic and decentralized self managed computing infrastructures Focusing on cognitive resource and service management the book examines the specific research challenges of the Swarm computing approach related to the characteristics of IoT connected devices that form the infrastructure It also offers academics and practitioners insights for future research in the fields of Edge and Swarm computing

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