

MOBILE CLOUD COMPUTING

Architectures, Algorithms and Applications



Debashis De



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Mobile Cloud Computing Architectures Algorithms And Applications

**Pradeep Kumar Singh, Sławomir T.
Wierzchoń, Sudeep Tanwar, Maria
Ganzha, Joel J. P. C. Rodrigues**

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and service deployments as well as specific cloud service models It continues with the basic mechanisms and principles of mobile computing as well as virtualization techniques The book also introduces mobile cloud computing architecture design key techniques and challenges The second part of the book covers optimizations of data processing and storage in mobile clouds including performance and green clouds The crucial optimization algorithm in mobile cloud computing is also explored along with big data and service computing Security issues in mobile cloud computing are covered in depth including a brief introduction to security and privacy issues and threats as well as privacy protection techniques in mobile systems The last part of the book features the integration of service oriented architecture with mobile cloud computing It discusses web service specifications related to implementations of mobile cloud computing The book not only presents critical concepts in mobile cloud systems but also drives readers to deeper research through open discussion questions Practical case studies are also included Suitable for graduate students and professionals this book provides a detailed and timely overview of mobile cloud computing for a broad range of readers

Proceedings of Second International Conference on Computing, Communications, and Cyber-Security Pradeep Kumar Singh, Sławomir T. Wierzchoń, Sudeep Tanwar, Maria Ganzha, Joel J. P. C. Rodrigues, 2021-05-24 This book features selected research papers presented at the Second International Conference on Computing Communications and Cyber Security IC4S 2020 organized in Krishna Engineering College KEC Ghaziabad India along with Academic Associates Southern Federal University Russia IAC Educational India and ITS Mohan Nagar Ghaziabad India during 3 4 October 2020 It includes innovative work from researchers leading innovators and professionals in the area of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues

Mobile Edge Computing Anwesha Mukherjee, Debashis De, Soumya K. Ghosh, Rajkumar Buyya, 2021-11-18 Mobile Edge Computing MEC provides cloud like subscription oriented services at the edge of mobile network For low latency and high bandwidth services edge computing assisted IoT Internet of Things has become the pillar for the development of smart environments and their applications such as smart home smart health smart traffic management smart agriculture and smart city This book covers the fundamental concept of the MEC and its real time applications The book content is organized into three parts Part A covers the architecture and working model of MEC Part B focuses on the systems platforms services and issues of MEC and Part C emphasizes on various applications of MEC This book is targeted for graduate students researchers developers and service providers interested in learning about the state of the art in MEC technologies innovative applications and future research directions

Privacy and Security Challenges in Cloud Computing T. Ananth Kumar, T. S. Arun Samuel, R. Dinesh Jackson Samuel, M. Niranjanamurthy, 2022-03-14 This reference text discusses various security techniques and challenges for cloud data protection from both software and hardware aspects The text provides readers with an overview of cloud computing beginning with historical perspectives on mainframe computers and early networking protocols moving to current

issues such as security of hardware and networks performance evolving IoT areas edge computing etc It also deals with threat detection and incident response in cloud security It covers important topics including operational security agitations in cloud computing cyber artificial intelligence AI platform for cloud security and security concerns of virtualization in cloud computing The book will serve as a useful resource for graduate students and professionals in the fields of electrical engineering electronics engineering computer science and information technology The International Conference on Advanced Machine Learning Technologies and Applications (AMLTA2018) Aboul Ella Hassanien, Mohamed F. Tolba, Mohamed Elhoseny, Mohamed Mostafa, 2018-01-25 This book presents the refereed proceedings of the third International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2018 held in Cairo Egypt on February 22 24 2018 and organized by the Scientific Research Group in Egypt SRGE The papers cover current research in machine learning big data Internet of Things biomedical engineering fuzzy logic security and intelligence swarms and optimization Internet of Things and Connected Technologies Rajiv Misra, Nishtha Kesswani, Muttukrishnan Rajarajan, Bharadwaj Veeravalli, Ashok Patel, 2022-01-19 This book presents recent advances on IoT and connected technologies We are currently in the midst of the Fourth Industrial Revolution and IoT is having the most significant impact on our society The recent adoption of a variety of enabling wireless communication technologies like RFID tags BLE ZigBee etc embedded sensor and actuator nodes and various protocols like CoAP MQTT DNS etc has made the Internet of things IoT step out of its infancy Internet of things IoT and connecting technologies are already having profound effects on the different parts of society like the government health care businesses and personal lives 6th International Conference on Internet of Things and Connected Technologies ICIoTCT 2021 was a platform to discuss and feature research on topics such as augmented reality sensor networks and wearable technology This book is ideally designed for marketing managers business professionals researchers academicians and graduate level students seeking to learn how IoT and connecting technologies increase the amount of data gained through devices enhance customer experience and widen the scope of IoT analytics in enhancing customer marketing outcomes

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