Premier Reference Source

Resource Management

of Mobile Cloud Computing Networks

and Environments

IGI

Resource Management of Mobile Cloud Computing Networks and Environments

Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing (ASASEHPC) Book Series

George Mastorakis (Technological Educational Institute of Crete, Greece), Constandinos X. Mavromoustakis (University of Nicosia, Cyprus), and Evangelos Pallis (Technological Educational Institute of Crete, Greece)

Description:

As more and more of our data is stored remotely, accessing that data wherever and whenever it is needed is a critical concern. More concerning is managing the databanks and storage space necessary to enable cloud systems.

Resource Management of Mobile Cloud Computing Networks and Environments reports on the latest advances in the development of computationally intensive and cloud-based applications. This publication covers a wide range of problems, solutions, and perspectives.

Readers:

This book is a scholarly resource for specialists and end-users alike making use of the latest cloud technologies.

ISBN: 9781466682252	Release Date: March, 2015	Copyright: 2015	Pages: 399
Topics Covered:			
Anomaly Datastics	Dumanula Da	Dunamia Descurso Mignation	

- Anomaly Detection
 Context Awareness
- Dependability Monitoring

- Dynamic Resource Migration Energy Conservation
- Energy Conservat
 Media Streaming

- Mobile Cloud Offloading
- Virtualization Methods

Hardcover + Free E-Access: \$215.00 E-Access Only: \$200.00



Section 1

Introduction and Applications of Mobile Cloud Computing

Chapter 1

Mobile Cloud Computing – An Introduction Jyoti Grover, Global Institute of Technology, India Gaurav Kheterpal, Metacube, India

Chapter 2

The Technical Debt in Cloud Software Engineering: A Prediction-based and Quantification Approach Georgios Skourletopoulos, Scientia Consulting S.A., Greece Rami Babsoon, University of Birmingham, UK Constandinos X. Mavromoustakis, University of Nicosia, Cyprus George Mastorakis, Technological Educational Institute of Crete, Greece

Chapter 3

Anomaly Detection in Cloud Environments Angelos K. Marnerides, Liverpool John Moores University, UK

Section 2 Mobile Cloud Resource Management

Chapter 4 Mobile Cloud Resource Management Konstantinos Katzis, European University Cyprus, Cyprus

Chapter 5

A Social-oriented Mobile Cloud Scheme for Optimal Energy Conservation Constandinos X. Mavromoustakis, University of Nicosia, Cyprus George Mastorakis, Technological Educational Institute of Crete, Greece Athina Bourdena, University of Nicosia, Cyprus Evangelos Pallis, Technological Educational Institute of Crete, Greece Dimitrios Stratakis, Technological Educational Institute of Crete, Greece Emmanuel Perakakis, Technological Educational Institute of Crete, Greece Ioannis Kopanakis, Technological Educational Institute of Crete, Greece Stelios Papadakis, Technological Educational Institute of Crete, Greece Stelios Papadakis, Technological Educational Institute of Crete, Greece Stelios Scaparis, Aristotle University of Thessaloniki, Greece Christos Skeberis, Aristotle University of Thessaloniki, Greece

Chapter 6

Traffic Analyses and Measurements Technological Dependability Rossitza Goleva, Technical University of Sofia, Bulgaria Dimitar Atamian, Technical University of Sofia, Bulgaria Seferin Mirtchev, Technical University of Sofia, Bulgaria Desislava Dimitrova, ETH Zurich, Switzerland Lubina Grigorova, Vinacom JSCO, Bulgaria Rosen Rangelov, Lufthansa Technik-Sofia, Bulgaria Aneliya Ivanova, Technical University of Sofia, Bulgaria

Section 3

Content Aware Streaming in Mobile Cloud

Chapter 7

Adaptation of Cloud Resources and Media Streaming in Mobile Cloud Networks for Media delivery

Jordi Mongay Batalla, National Institute of Telecommunications and Warsaw University of Technology, Poland

Chapter 8

Context-awareness in Opportunistic Mobile Cloud Computing Radu-Corneliu Marin, University Politebnica of Bucharest, Romania Radu-Ioan Ciobanu, University Politebnica of Bucharest, Romania Radu Pasea, University Politebnica of Bucharest, Romania Vlad Barosan, University Politebnica of Bucharest, Romania Mihail Costea, University Politebnica of Bucharest, Romania Ciprian Dobre, University Politebnica of Bucharest, Romania

Chapter 9

H.265 Video Streaming in Mobile Cloud Networks Qi Wang, University of the West of Scotland, UK James Nightingale, University of the West of Scotland, UK Jose Alcaraz-Calero, University of the West of Scotland, UK Chunbo Luo, University of the West of Scotland, UK Zeeshan Perrez, University of the West of Scotland, UK Xinheng Wang, University of the West of Scotland, UK Christos Grecos, University of the West of Scotland, UK

Section 4

Network and Service Virtualization

Chapter 10

Virtualization Evolution: From IT Infrastructure Abstraction of Cloud Computing to Virtualization of Network Functions Harilaos Koumaras, NCSR Demokritos, Greece Christos Damaskos, NCSR Demokritos, Greece George Diakoumakos, NCSR Demokritos, Greece Michail-Alexandros Kourtis, NCSR Demokritos, Greece George Xilouris, NCSR Demokritos, Greece George Gardikis, NCSR Demokritos, Greece Vaios Koumaras, NCSR Demokritos, Greece Thomas Siakoulis, NCSR Demokritos, Greece

Chapter 11

Towards Ubiquitous and Adaptive Web-based Multimedia Communications via the Cloud

Spyros Panagiotakis, Technological Educational Institute of Crete, Greece Ioannis Vakintis, Technological Educational Institute of Crete, Greece Haroula Andrioti, Technological Educational Institute of Crete, Greece Andreas Stamoulias, Technological Educational Institute of Crete, Greece Kostas Kapetanakis, Technological Educational Institute of Crete, Greece Athanasios Malamos, Technological Educational Institute of Crete, Greece

Chapter 12

A Resource Prediction Engine for Efficient Multimedia Services Provision Yiannos Kryftis, University of Nicosia, Cyprus George Mastorakis, Technological Educational Institute of Crete, Greece Constandinos X. Mavromoustakis, University of Nicosia, Cyprus Jordi Mongay Batalla, National Institute of Telecommunications and Warsaw University of Technology, Poland Athina Bourdena, University of Nicosia, Cyprus Evangelos Pallis, Technological Educational Institute of Crete, Greece