



## Mobile Cloud Computing: Overview & Current Research Challenges

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### ABSTRACT

Today cell phones are turning into a basic part for human-life in their day-to-day activities. According to recent studies it was mentioned that Mobile Cloud Computing (MCC) will be incorporated by most of the corporate and tele-communication sectors to meet their business requirements effectively. In MCC, the mobile devices will interact with the cloud across a network for providing required information to the user. Mobile devices can be any of smart phones, PDA's, laptops, Tablet PC's etc... Cloud can be defined as a data storage area where the data can be stored. This article provides overview of Mobile Computing, Cloud Computing, Mobile Cloud Computing, and Challenges in Mobile Cloud Computing (MCC) and Research areas in Mobile Cloud Computing (MCC).

**Keywords:** *Mobile Computing, Cloud Computing, Mobile Cloud Computing, Challenges in Mobile Cloud Computing (MCC), Research Areas in Mobile Cloud Computing (MCC)*

### I. INTRODUCTION TO MOBILE CLOUD COMPUTING

The merging of both mobile computing and cloud computing can be known as mobile cloud computing. Mobile cloud computing technology can be inherited from the cloud computing technology.

Because of the bringing up in number of mobile devices such as smart phones, PDA's, laptops, tablet PC's, the mobile cloud computing technology innovation is turned out to be one of the best most potential and effective innovation sooner rather than later. In this section we will see in brief about mobile computing, cloud computing and mobile cloud computing.

#### I.1. Mobile Computing

The computation performed on mobile devices is referred to as Mobile Computing [1]. Mobile computing involves Mobile Communication [2], Mobile Hardware, and Mobile Software. A network consists of various mobile adhoc devices and the communication among these devices includes properties, operations and protocols. The collection of various mobile devices within a network can be termed as Mobile Hardware. The features and requirements of mobile applications can be termed as Mobile Software.

# Cloud Computing Overview Current Research Challenges

**Asif Khan**



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## **Table of Contents Cloud Computing Overview Current Research Challenges**

1. Understanding the eBook Cloud Computing Overview Current Research Challenges
  - The Rise of Digital Reading Cloud Computing Overview Current Research Challenges
  - Advantages of eBooks Over Traditional Books
2. Identifying Cloud Computing Overview Current Research Challenges
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Cloud Computing Overview Current Research Challenges
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cloud Computing Overview Current Research Challenges
  - Personalized Recommendations
  - Cloud Computing Overview Current Research Challenges User Reviews and Ratings
  - Cloud Computing Overview Current Research Challenges and Bestseller Lists
5. Accessing Cloud Computing Overview Current Research Challenges Free and Paid eBooks
  - Cloud Computing Overview Current Research Challenges Public Domain eBooks
  - Cloud Computing Overview Current Research Challenges eBook Subscription Services
  - Cloud Computing Overview Current Research Challenges Budget-Friendly Options

6. Navigating Cloud Computing Overview Current Research Challenges eBook Formats
  - ePub, PDF, MOBI, and More
  - Cloud Computing Overview Current Research Challenges Compatibility with Devices
  - Cloud Computing Overview Current Research Challenges Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cloud Computing Overview Current Research Challenges
  - Highlighting and Note-Taking Cloud Computing Overview Current Research Challenges
  - Interactive Elements Cloud Computing Overview Current Research Challenges
8. Staying Engaged with Cloud Computing Overview Current Research Challenges
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cloud Computing Overview Current Research Challenges
9. Balancing eBooks and Physical Books Cloud Computing Overview Current Research Challenges
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cloud Computing Overview Current Research Challenges
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cloud Computing Overview Current Research Challenges
  - Setting Reading Goals Cloud Computing Overview Current Research Challenges
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cloud Computing Overview Current Research Challenges
  - Fact-Checking eBook Content of Cloud Computing Overview Current Research Challenges
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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