

## 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

**Yijin Wang**



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