



# Mobile Cloud Computing: Principles and Paradigms

*Abhirup Khanna, Sarishma*

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The amalgamation of two technologies, Cloud Computing and Mobile Computing, has given rise to what we know today as Mobile Cloud Computing (MCC). Mobile Cloud Computing could be seen as a solution to the problems faced by our smartphones by leveraging the concepts of cloud computing. With the vast usage of mobile devices, it is evident that the next paradigm shift after cloud computing would be MCC. This book is one of its kinds as it covers all aspects of MCC. Some of the leading concepts which this book covers are Mobile Computational Offloading (MCO) and Cloud Assisted Mobile Augmentation (CMA) which helps to overcome the limitations (battery life and computational power) faced by our smartphones. The book lays emphasis on the concept of Cloudlets with which a reader could create his/her own local cloud with the help of his/her mobile device. The book also talks about Live VM migration through which VMs of mobile devices could be migrated from one server to another without causing any glitches in its services. The book allows a reader to have a deep understanding for MCC and explore its contents according to his/her own endeavors. It serves the purpose of providing adequate knowledge about the fundamentals of MCC to a common reader. It will also help research scholars in doing future research within the scope of this technology. Contents: 1. Introduction to Mobile Cloud Computing 2. Cloud-assisted Mobile Augmentation 3. Mobile Computation Offloading 4. Cloudlet: Bringing Cloud Closer 5. Resource Allocation in Mobile Cloud Computing 6. Live Migration of Virtual Machine 7. Security concerns in Mobile Cloud Computing Index. Audience: Students of B.Tech/M.Tech in Computer Science, MBA (IT), BSc (IT) MCA, BCA, and Mobile and Cloud Computing Researchers and Professional.

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