

Chapter 1

Introduction

“Future is mobile computing – smartphones and tablets are just elements of it. The industry is on the verge of a whole new paradigm.”

— *Thorsten Heins*

1.1 Motivation

An upsurge of wireless devices, coupled with the advent of technologies, has recently witnessed explosive growth in mobile traffic and this trend is expected to continue in the near future. To respond efficiently to this demand, the next generation cellular networks aim to cater for a wider range of applications and requirements which are beyond the capabilities of previous generations. The forthcoming fifth generation (5G) and 5G beyond (5GB) mobile communication systems are supposed to provide ubiquitous and seamless services while satisfying the users’ expectations of high data rates. However, within the limited available frequency spectrum, such requirements often lead to network congestion. Therefore, the move into the future requires the development of new spectrum management techniques to meet the enhanced quality of service (QoS) perceived by the users.



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