Social Issues of Mobile in the Wireless Market: An Overview of the Rapid Changes in the Mobile Computing Environment

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Abstract: *The use of mobile devices embedded in the surrounding physical environment, users can be provided with transparent computing and communication services at all times and in all places. The complexity of providing such services stems from the fact that the communication devices and the objects with which they interact may both be mobile. Their implementation requires advances in wireless network technologies and devices, development of infrastructures supporting cognitive environments, discovery and identification of mobile computing applications and services, security and an understanding of the cross-layer interactions between all of these components. This paper provides the idea of new mobile computing applications, including location aware and context aware applications, improved networking communication protocols to support evolving needs of mobile computing applications, and better internet backbone services to support next generation mobile computing. This paper also targets IT developers, system architects, and managers looking at how best to develop and deploy mobile applications.*

Keywords: Multimedia Distribution Protocols, Middleware, Pervasive Computing, Location-Based Services

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