Principles of Mobile Computing and Communications

By Mazliza Othman

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Mobile computing technology has come a long way in recent years—providing anytime, anywhere communication and access to information. Bringing students up to date on important technological and industry developments, **Principles of Mobile Computing and Communications** examines mobile networks and relevant standards, highlighting issues unique to the mobile computing environment and exploring the differences between conventional and mobile applications.

Going beyond discussions on wireless network infrastructure and how to develop enterprise mobile applications, this textbook considers pervasive computing and smart environments, the complexity of designing and developing such applications, and how issues are dependent on the context of the applications.

Following an overview of what mobile computing has to offer and how its applications affect both our professional and personal lives, it focuses on the technologies and the infrastructure of all mobile and wireless networks, cellular networks, WLANs, WPANs, and sensor and mobile ad hoc networks. The textbook then discusses the Mobile IP, adaptive behavior, power management, resource constraints, interface design, seamless mobility support, and locating sensing techniques and systems. It also discusses important security issues that concern all users regardless of applications employed.

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