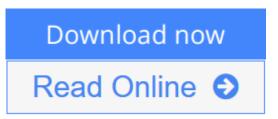# Pervasive Computing: The Mobile World (Springer Professional Computing)

By Uwe Hansmann, Lothar Merk, Martin S. Nicklous, Thomas Stober

Pervasive Computing: The Mobile World (Springer Professional Computing) By Uwe Hansmann, Lothar Merk, Martin S. Nicklous, Thomas Stober

This book describes a new class of computing devices which are becoming omnipresent in every day life. They make information access and processing easily available for everyone from anywhere at any time. Mobility, wireless connectivity, di- versity, and ease-of-use are the magic keywords of Pervasive and Ubiquitous Computing. The book covers these front-end devices as well as their operating systems and the back-end infrastructure which integrate these pervasive components into a seamless IT world. A strong emphasis is placed on the underlying technologies and standards applied when building up pervasive solutions. These fundamental topics include commonly used terms such as XML, WAP, UMTS, GPRS, Bluetooth, Jini, transcoding, and cryptography, to mention just a few. Voice, Web Application Servers, Portals, Web Services, and Synchronized and Device Management are new in the second edition.
Besides a comprehensive state-of-the-art description of the Pervasive Computing technology itself, this book gives an overview of today's real-life applications and accompanying service offerings. M-Commerce, e-Business, networked home, travel, and finance are exciting examples of
applied Ubiquitous Computing.

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Editorial Review

From the Back Cover

Pervasive Computing

describes a new class of mobile computing devices which are becoming omnipresent in everyday life. Handhelds, phones and manifold embedded systems make information access easily available for everyone from anywhere at any time. But Pervasive Computing is far more than just fancy devices: A powerful wireless communication infrastructure extends the reach of enterprise networks to mobile clients. Web services and portal servers offer flexible gateways to the back-end server systems and their data. And finally, a variety of new mobile solutions and services take advantage of the possibilities and feature mobility, connectivity, and ease-of-use.

Key Topics

This book is a guide to the world of Pervasive Computing. It explains

- variety of devices, including handheld computers, mobile phones,entertainment systems, smart cards, embedded controls, as well as intelligent automotive equipment.

- wired and wireless communication technology based on common standards, such as Internet protocols, WAP, UMTS, GPRS, Bluetooth, and i-mode

- back-end server infrastructure featuring portal servers, web services, data synchronisation, device management, and transcoding

Features & Benefits

- Introduces the fundamental principles of mobile computing

- Examines today's device technology

- Provides an indepth knowledge on mobile communication and wireless networking

- Describes the variety of mobile services and applications

Quotes

"Very good coverage of Pervasive Computing - ranging from the device level up to the server. They cover the range with authority and state-of-the-art knowledge." (Peter Thompson, Senior Software Engineer, Starfish Software)

"This book is a comprehensive survey covering many of today's hottest technologies. If you need to understand the components involved in building Pervasive Computing solutions, start here." (Frank Dawson, Consulting Engineer / Senior Technical Staff Member, Lotus Development Corporation)

Users Review

From reader reviews:

James Stumbaugh:

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