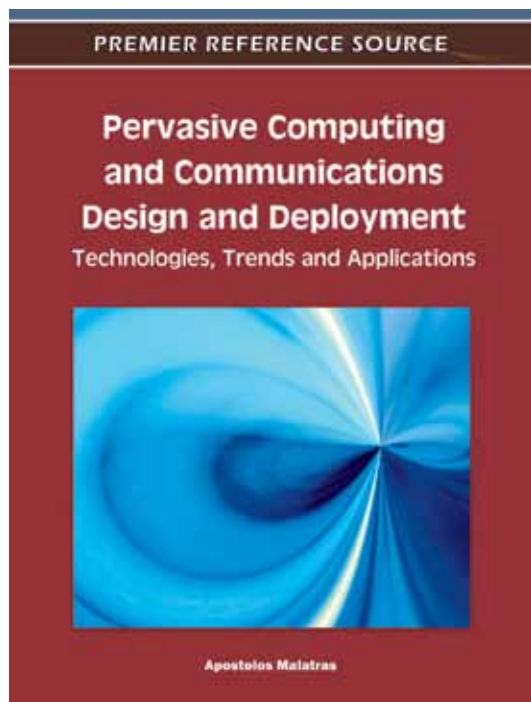


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Pervasive Computing and Communications Design and Deployment: Technologies, Trends and Applications



Apostolos Malatras (University of Fribourg, Switzerland)

Pervasive computing environments based on the ubiquitous communications paradigm have attracted significant research interest and have found increased applicability in commercial settings, attributed to the fact that they provide seamless, customized, and unobtrusive services to their users. Research on pervasive and ubiquitous computing has been prolific over the past years, leading to a large number of corresponding diverse software and hardware infrastructures, networking solutions, methodologies, and frameworks.

Pervasive Computing and Communications Design and Deployment: Technologies, Trends, and Applications has a broad scope since it is intended to provide an overview on the general and interdisciplinary topic of pervasive computing and communications. Particular aspects studied in this book include enabling factors, key characteristics, future trends, user adoption, privacy issues and impact of pervasive computing on Information and Communications Technology (ICT) and its associated social aspects. The book is intended to serve as a reference for computer science practitioners, students and researchers, covering design principles and relevant implementation techniques and technologies regarding pervasive computing.

Topics Covered:

- Advances and Technologies in the Pervasive Wireless Communications Realm (e.g. UWM, IEEE 802.11n, Zigbee, etc.)
- Applications and Real World Case-Studies of Pervasive Computing
- Autonomic Technologies and Services for Adaptive Pervasive Computing
- Context Awareness as an Enabler of Pervasive Environments
- Drivers and Enablers of the Pervasive Computing Paradigm
- Infrastructures to Support the Deployment of Pervasive Computing Environments
- Interoperable Exchange of Information in the Ubiquitous Space of Pervasive Computing
- Systems, Architectures, Tools, and Middleware Approaches

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Adiba Michel (UJF, LIG, France)
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Lavagetto Fabio (University of Genoa, Italy)
Marchese Mario (University of Genoa, Italy)

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