Ubiquitous Multimedia and Mobile Agents: Models and Implementations

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Ubiquitous multimedia systems, or mobile multimedia systems, offer the promise of pervasive delivery of multimedia content to mobile users and their handheld devices.

Ubiquitous Multimedia and Mobile Agents: Models and Implementations provides the hybridization of two paradigms, namely, ubiquitous/mobile multimedia and mobile agents, where mobile agents act as the platform to realize mobile multimedia delivery infrastructure. Ubiquitous multimedia systems involve user/creator authentication, media adaptation, data delivery over wireless network, QoS awareness, and user-mobility management. On the other hand, mobile agent technology is appropriate for the realization of a wide range of high-end mobile applications. Agents and mobile agents are capable of tackling various challenges faced by mobile multimedia delivery infrastructure. This book serves as an excellent reference for the latest research and models in ubiquitous multimedia.

Topics Covered:

- Agent Migration
- Middleware
- Mobile/Ubiquitous Multimedia Systems Infrastructure
- Multimedia Content Discovery
- QoS Management for Mobile Multimedia
- Resource Management
- Simulation
- Software Design
- User Authentication
- User-Mobility Management

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Ciubotaru Bogdan (Dublin City University, Ireland)
Muntean Gabriel-Miro (Dublin City University, Ireland)

Chapter 2
Mobile Agent Systems
Siddiqui Farhan (Walden University, USA)
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Basu Kashinath (Oxford Brookes University, UK)

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An Agent-Based Approach to Adapt Multimedia Web Content in Ubiquitous Environment
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Sarnè Giuseppe M.L. (University of Reggio Calabria, DIMET, Italy)

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Landini Alex (Emil Data S.r.l., Italy)
Monti Stefano (University of Bologna, Italy)

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Kumar Praveen (GRIET, India)
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Mittal Ankush (College of Engineering Roorkee, India)
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Chapter 12
Security Management in Heterogeneous Distributed Sensor Networks
Pathan Al-Sakib Khan (International Islamic University, Malaysia)

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