CONTemporary CHALLENGES AND SOLUTIONS FOR MOBILE AND MULTIMEDIA TECHNOLOGIES

Ismail Khalil (Johannes Kepler University Linz, Austria) and Edgar Weippl (Secure Business Austria - Security Research, Austria)

Mobile computing and multimedia technologies continue to expand and change the way we interact with each other on a business and social level. With the increased use of mobile devices and the exchange of information over wireless networks, information systems are able to process and transmit multimedia data in various areas.

Contemporary Challenges and Solutions for Mobile and Multimedia Technologies provides comprehensive knowledge on the growth and changes in the field of multimedia and mobile technologies. This reference source highlights the advancements in mobile technology that are beneficial for developers, researchers, and designers.

Topics Covered:

- Active Multimedia Network
- Content Distribution Architectures
- Database for Mobile Systems
- Digital Rights Management
- Mobile Ad Hoc Networks
- Mobile Multimedia Platform
- Streaming Media Protocols
- Wireless Data Services

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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Ismail Khalil (http://www.iiwas.org/ismail/) is a senior researcher and lecturer at the institute of telecooperation, Johannes Kepler University Linz, Austria, since October 2002. He is the president of the international organization of Information Integration and Web-based Applications & Services (@WAS). He holds a PhD in computer engineering and received his habilitation degree in applied computer science on his work on agents’ interaction in ubiquitous environments in May 2008. He currently teaches, consults, and conducts research in Mobile Multimedia, Cloud Computing, Agent Technologies, and the Semantic Web and is also interested in the broader business, social, and policy implications associated with the emerging information technologies. Before joining Johannes Kepler University of Linz, he was a research fellow at the Intelligent Systems Group at Utrecht University, Netherlands from 2001-2002 and the project manager of AgenCom project at the Software Competence Center Hagenberg - Austria from 2000-2001. Dr. Khalil has authored around 100 scientific publications, books, and book chapters. He is the editor of the Handbook of Research on Mobile Multimedia series, the book Mobile Multimedia: Communication Engineering Perspective, the book Multimedia Transcoding in Mobile and Wireless Networks, the book Innovations in Mobile Multimedia Communications and Applications: New Technologies and the book Advancing the Next Generation of Mobile Computing: Emerging Technologies. He serves as the Editor-in-Chief of the International Journal on Web Information Systems (IJWIS), International Journal on Pervasive Computing and Communication (IJPC) both published by Emerald Group publishing, UK, Journal of Mobile Multimedia (JMM) published by Rinton Press, USA, International Journal of Mobile Computing and Multimedia Communication (IJMCMC) published by IGI Global, USA, Advances in Next Generation Mobile Multimedia book series published by IGI Global, USA, and Atlantis Ambient and Pervasive Intelligence book series published by Atlantis and Springer. He is on the editorial board of several international journals. His work has been published and presented at various conferences and workshops.
Section 1: Security

Chapter 1
Dual-Level Attack Detection, Characterization, and Response for Networks under DDoS Attacks
Sardana Anjali (Indian Institute of Technology Roorkee, India)
Joshi Ramesh C. (Indian Institute of Technology Roorkee, India)

Chapter 2
Improving Effectiveness of Intrusion Detection by Correlation Feature Selection
Nguyen Hai Thanh (Gjøvik University College, Norway)
Franke Katrin (Gjøvik University College, Norway)
Petrović Slobodan (Gjøvik University College, Norway)

Chapter 3
Threat and Risk-Driven Security Requirements Engineering
Schmidt Holger (Technical University of Dortmund, Germany)

Chapter 4
Establishing a Personalized Information Security Culture
Talib Shuhaili (University of Plymouth, UK & International Islamic University, Malaysia)
Clarke Nathan L. (University of Plymouth, UK & Edith Cowan University, Australia)

Chapter 5
2-Click-Auto
Vapen Anna (Linköping University, Sweden)
Shahmehri Nahid (Linköping University, Sweden)

Chapter 6
On Cryptographically Strong Bindings of SAML Assertions to Transport Layer Security
Kohlar Florian (Ruhr University Bochum, Germany)
Schwenk Jörg (Ruhr University Bochum, Germany)
Jensen Meiko (Ruhr University Bochum, Germany)
Gajek Sebastian (Tel Aviv University, Israel)

Chapter 7
An Integrated Approach for the Enforcement of Contextual Permissions and Pre-Obligations
Elkraoubi Yehia (TELECOM Bretagne, France)
Cappens Frederic (TELECOM Bretagne, France)
Cappens-Boualahia Nora (TELECOM Bretagne, France)

Chapter 8
Online Authentication Using Smart Card Technology in Mobile Phone Infrastructure
Mantoro Teddy (International Islamic University Malaysia, Malaysia)
Miličić Admit (International Islamic University Malaysia, Malaysia)
Ayu Media A. (International Islamic University Malaysia, Malaysia)

Section 2: Commerce

Chapter 9
Systems Development Methodology for Mobile Commerce Applications
Binsaleh Muazzam (Prince of Songkla University, Thailand)
Hassan Shahizan (Universiti Utara Malaysia, Malaysia)

Chapter 10
RichRFID Middleware in the Supply Chain
El Khaddar Mehdia Ajana. (ENSIAS Rabat, Morocco)
Harroud Hamid (Alahawani University in Ifrane, Morocco)
Boulmalf Mohammed (Alahawani University in Ifrane, Morocco)
El Koutbi Mohammed (ENSIAS Rabat, Morocco)

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Mousa Allam (An-Najah National University, Palestine)

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Penhoat Joel (Orange Labs, France)
Guillouard Karine (Orange Labs, France)
Bonjour Servane (Orange Labs, France)
Seïté Pierrick (Orange Labs, France)

Section 4: Audiovisual Recognition

Chapter 20
Primary Research on Arabic Visemes, Analysis in Space, and Frequency Domain
Chelebi Fatma Zohra (Houari Boumediene University of Sciences and Technologies, Algeria)
Djeradi Amar (Houari Boumediene University of Sciences and Technologies, Algeria)
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