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Tools for Mobile Multimedia Programming and Development

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Tools for Mobile Multimedia Programming and Development

Dian Tiondronegoro



Advances in Wireless Technologies and Telecommunication Series

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Part of the Advances in Wireless Technologies and Telecommunication (AWTT) Book Series

D. Tjondronegoro (Queensland University of Technology, Australia)

Mobile devices are rapidly developing into the primary technology for users to work, socialize, and play in a variety of settings and contexts. Their pervasiveness has provided researchers with the means to investigate innovative solutions to ever more complex user demands.

Tools for Mobile Multimedia Programming and Development investigates the use of mobile platforms for research projects, focusing on the development, testing, and evaluation of prototypes rather than final products, which enables researchers to better understand the needs of users through image processing, object recognition, sensor integration, and user interactions. This book benefits researchers and professionals in multiple disciplines who utilize such techniques in the creation of prototypes for mobile devices and applications. This book is part of the Advances in Wireless Technologies and Telecommunication series collection.

Topics Covered:

- Application Development
- Context-Aware Applications
- Embedded Sensors
- Image/Video Analysis
- Intelligent Mobile Computing
- Mobile Internet
- Mobile Platforms
- Multimedia Applications
- Prototyping
- User Interactions

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User-centered Study on Quality of Mobile Video Services
Wei Song, Queensland University of Technology, Australia
Dian Tjondronegoro, Queensland University of Technology, Australia
Michael Docherty, Queensland University of Technology, Australia

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Modeling and Documenting Aspect Oriented Mobile Product Lines
Camila Nunes, Pontifical Catholic University of Rio de Janeiro, Brazil
Uirá Kulesza, Federal University of Rio Grande do Norte, Brazil
Roberta Coelho, Federal University of Rio Grande do Norte, Brazil
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Developing a multimodal application for a scientific experiment on smartphone José Rouillard, University of Lille, France

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Chapter .

Contextual and Personalized Mobile Recommendation Systems Jitao Sang, Chinese Academy of Sciences, China Tao Mei, Microsoft Research Asia, China Changsheng Xu, Chinese Academy of Sciences, China Shipeng Li, Microsoft Research Asia, China

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Gamifying Everyday Activities using Mobile Sensing
Zachary Fitz-Walter, Queensland University of Technology, Australia
Dian Tjondronegoro, Queensland University of Technology, Australia
Peta Wyeth, Queensland University of Technology, Australia

Chapter 7

A Context-Aware Smart TV System with Body-Gesture Control and Personalized Recommendation Wei-Po Lee, National Sun Yat-sen University, Taiwan Che Kao-Li, National Sun Yat-sen University, Taiwan

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Chapter 1

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