Mobile Application Development, Usability, and Security

Part of the Advances in Multimedia and Interactive Technologies Book Series

Sougata Mukherjea (IBM, India)

Description:

The development of mobile technology has experienced exponential growth in recent years. Mobile devices are ubiquitous in modern society, impacting both our personal and professional lives.

Mobile Application Development, Usability, and Security provides a thorough overview on the different facets of mobile technology management and its integration into modern society. Highlights issues related to analytics, cloud computing, and different types of application development.

Readers:

This book is a pivotal reference source for professionals, researchers, upper-level students, and practitioners actively involved in the area of mobile computing.

ISBN: 9781522509455  Release Date: November, 2016  Copyright: 2017  Pages: 300

Topics Covered:

- Access Control
- Adaptive Trust Negotiation
- Application Testing
- Context-Aware Mobile Platforms
- Location Tracking
- Machine Learning
- User Analytics

Hardcover + Free E-Access: $180.00
E-Access + Free Hardcover: $180.00

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
Online Bookstore: www.igi-global.com
Table of Contents

Preface

Editorial Board Advisors

Chapter 1
MEmolt, From Lifelogging Application to Research Platform
Jean-Eudes Ranvier, École Polytechnique Fédérale de Lausanne, Switzerland
Michèle Catasta, École Polytechnique Fédérale de Lausanne, Switzerland
Ivan Gavrilovic, École Polytechnique Fédérale de Lausanne, Switzerland
Georges Christodoulopoulos, Cisco Systems, Switzerland
Horia Radu, École Polytechnique Fédérale de Lausanne, Switzerland
Tiziano Signo, École Polytechnique Fédérale de Lausanne, Switzerland
Karl Aberer, École Polytechnique Fédérale de Lausanne, Switzerland

Chapter 2
Mobile Application Testing
Vijay Ekambaram, IBM Research, India
Vivek Sharma, IBM Research, India
Nittendr Rajput, IBM Research, India

Chapter 3
Accessible and Inclusive Content and Applications
Tom Brunet, IBM Research, USA
P G Ramachandran, IBM Research, USA

Chapter 4
Combining Static Code Analysis and Machine Learning for Automatic Detection of Security Vulnerabilities in Mobile Apps
Marco Pistola, IBM T. J. Watson Research Center, USA
Omer Tripp, IBM T. J. Watson Research Center, USA
David Lubensky, IBM T. J. Watson Research Center, USA

Chapter 5
Trust Profiling to Enable Adaptive Trust Negotiation in Mobile Devices
Eugene Sanzi, University of Connecticut, USA
Steven A Demurjian, University of Connecticut, USA
Thomas P Agresta, University of Connecticut Health Center, USA
Amanda Murphy, Canisius College, USA

Chapter 6
Role-Based Access Control for Mobile Computing and Applications
Yaira K. Rivera Sánchez, University of Connecticut, USA

Steven A Demurjian, University of Connecticut, USA
Joanne Conover, University of Connecticut, USA
Thomas P Agresta, University of Connecticut Health Center, USA
Xian Shao, University of Connecticut, USA
Michael Diamond, Pomona College, USA

Chapter 7
A Spatio-Situation-Based Access Control Model for Dynamic Permission on Mobile Applications
Xian Shao, University of Connecticut, USA
Steven A Demurjian, University of Connecticut, USA
Thomas P Agresta, University of Connecticut Health Center, USA

Chapter 8
Preserving User Privacy and Security in Context-Aware Mobile Platforms
Prajit Kumar Das, University of Maryland, Baltimore County, USA
Dibyajyoti Ghosh, University of Maryland, Baltimore County, USA
Prabu Jagtap, University of Maryland, Baltimore County, USA
Anupam Joshi, University of Maryland, Baltimore County, USA
Tim Finin, University of Maryland, Baltimore County, USA

Chapter 9
Mobile Location Tracking: Indoor and Outdoor Location Tracking
Sima Nadler, IBM Haifa Research Lab, Israel

Chapter 10
Participatory Sensing for City-scale Applications
Tridib Mukherjee, Xerox Research Center, India
Deepthi Chander, Xerox Research Center, India
Sharanya Eswaran, Xerox Research Center, India
Koustuv Dasgupta, Xerox Research Center, India

Chapter 11
Mobile Application and User Analytics
Venkatraman Ramakrishna, IBM Research, India
Kuntal Dey, IBM Research, India

Chapter 12
Mobile + Cloud: Opportunities and Challenges
Pushpendra Singh, Indraprastha Institute of Information Technology, India

Compilation of References

About the Contributors

Index