

New Release

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Handbook of Research on User Interface Design and Evaluation for Mobile Technology

HANDBOOK OF RESEARCH ON

**User Interface Design
and Evaluation for
Mobile Technology**



Joanna Lumsden

2-volume set

“The handbook provides literally thousands of references to existing literature and research efforts in the field of mobile human-computer interaction, and it includes a comprehensive index to support quick and convenient look up of topics and concepts.”

- Joanna Lumsden, National Research Council of Canada, Canada

Subject:

Human, Behavioral, and Social Aspects of Technology; Mobile Computing and Communications Technologies; Software/Systems Engineering, Programming, Analysis and Design; Internet and Web Technologies and Services

Market:

This comprehensive two-volume handbook is essential for all academic and research libraries, as well as all those involved in mobile human-computer interaction and who require access to current information in this emerging field. Researchers, practitioners, educators, managers, and students in a full range of IT-related fields and industries will also benefit.

Edited by: Joanna Lumsden, National Research Council of Canada, Canada

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In recent years, mobile technology has been one of the major growth areas in computing. Designing the user interface for mobile applications, however, is a very complex undertaking which is made even more challenging by the rapid technological developments in mobile hardware. Mobile human-computer interaction, unlike desktop-based interaction, must be cognizant of a variety of complex contextual factors affecting both users and technology.

The **Handbook of Research on User Interface Design and Evaluation** provides students, researchers, educators, and practitioners with a compendium of research on the key issues surrounding the design and evaluation of mobile user interfaces, such as the physical environment and social context in which a mobile device is being used and the impact of multitasking behavior typically exhibited by mobile-device users. Compiling the expertise of over 150 leading experts from 26 countries, this exemplary reference tool will make an indispensable addition to every library collection.



Excellent addition to your library! Recommend to your acquisitions librarian.

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Handbook of Research on User Interface Design and Evaluation for Mobile Technology

Edited by: Joanna Lumsden, National Research Council of Canada, Canada

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Topics Covered:

- Adaptive and intelligent user interfaces
- Assistive mobile technologies
- Design for special needs groups
- Ethnography
- Human-computer interaction
- In-car user interfaces
- Interacting artifacts
- Mobile communication
- Mobile interaction techniques
- Mobile learning applications
- Mobile user interfaces
- Novel interaction paradigms
- Physical environment
- Social context
- Unobtrusive interaction
- User interface design
- User interface evaluation
- Visual interaction
- Wearable technologies

About the Editor:

Joanna Lumsden (PhD) is a researcher with the National Research Council of Canada (NRC) and is the lab manager for a state-of-the-art mobile human computer interaction (HCI) evaluation lab within the NRC facility. Dr. Lumsden is also an adjunct professor with the faculty of computer science at the University of New Brunswick (Canada) where she both teaches and supervises student research. Dr. Lumsden obtained her BSc in software engineering (Hons) from the University of Glasgow (Scotland, 1996) where she also later achieved her PhD in HCI (2001). Her research interests and expertise are mainly in mobile HCI and associated evaluation techniques. She has served on program committees for several international HCI/general computer science conferences.

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