Developments in Technologies for Human-Centric Mobile Computing and Applications

PREMIER REFERENCE SOURCE

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Joanna Lumsden

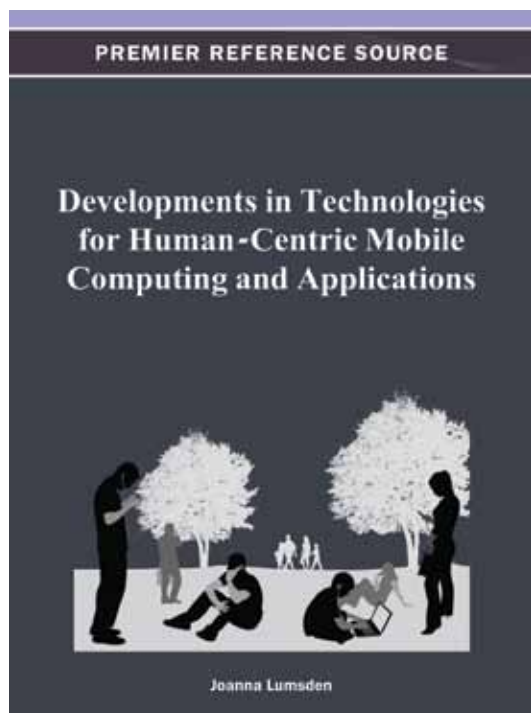Joanna Lumsden (Aston University, UK)

With recent expansions in technology, mobile computing continues to play a vital role in all aspects of our lives. Digital technology tools such as Web browsing, media tracking, social media, and emailing have made mobile technology more than just a means of communication but has widespread use in business and social networks.

Developments in Technologies for Human-Centric Mobile Computing and Applications is a comprehensive collection of knowledge and practice in the development of technologies in human –centric mobile technology. This book focuses on the developmental aspects of mobile technology; bringing together researchers, educators, and practitioners to encourage readers to think outside of the box.

Topics Covered:

- Context-Aware/Context-Sensitive Mobile Application Design, Evaluation, and Use
- Design Methods/Approaches for Mobile User Interfaces
- Gestural Interaction Techniques for Mobile Technologies
- Graphical Interaction Techniques for Mobile Technologies
- Lab-Based Evaluations and Evaluation Techniques
- Mobile Advanced Training Application Design, Evaluation, and Use
- Mobile Assistive Technologies Design, Evaluation, and Use
- Mobile Interactive Play Design, Evaluation, and Use
- Mobile Learning Application Design, Evaluation, and Use
- Multimodal Interaction on Mobile Technologies
- Non-Speech Audio-Based Interaction Techniques for Mobile Technologies
- Speech-Based Interaction Techniques for Mobile Technologies

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.

Joanna Lumsden (PhD) is a lecturer/researcher in the School of Engineering & Applied Sciences at Aston University (Birmingham, UK). Prior to moving to Aston in 2009, Joanna was a researcher with the National Research Council of Canada (NRC) and the designer and lab manager for a state-of-the-art mobile human computer interaction (HCI) evaluation lab within the NRC facility. Joanna is also an adjunct professor with the Faculty of Computer Science at the University of New Brunswick (Canada). She obtained her BSc in software engineering (Hons) from the University of Glasgow (Scotland, 1996), where she also later achieved her PhD in HCI in 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 and was also editor of the *Handbook of Research on User Interface Design and Evaluation for Mobile Technology*.

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