



Critical Socio-Technical Issues Surrounding Mobile Computing

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As lifestyles in personal and public spheres become more fast-paced and hectic, the need for reliable mobile technologies becomes increasingly important. Insights into the various impacts of mobile applications pave the way for future advances and developments in communication and interaction.

Critical Socio-Technical Issues Surrounding Mobile Computing is a pivotal reference source for research-based perspectives on the use and application of mobile technology in modern society. Featuring extensive research on a variety of topics relating to the social, technical, and behavioral perspectives of mobile applications, this book is an essential reference source for mobile application developers, instructors, practitioners, and students interested in current research on the impact of mobile devices on individuals and society as a whole.

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Editors Mohamed, Mantoro, Ayu, and Mahmud present student and professional readers with a collection of expert contributions on the contemporary global issues surrounding the use of mobile computing. The fourteen contributions that make up the main body of the text cover collaborative mobile learning, touch screen devices, purchase intention, mobile navigation aids, network security attacks, Islamic mobile applications, mobile malware, and environmental applications.

– *ProtoView Reviews*

Topics Covered

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Norshidah Mohamed is an Associate Professor of Management Information Systems and Operations Management at Prince Sultan University, Riyadh, Saudi Arabia. She has published papers in international refereed journals and conferences. This includes in*Industrial Management & Data Systems, Computers in Human Behavior, Information Management and Computer Security, Campus-Wide Information Systems, Journal of Information Technology Research, International Journal of Mathematics and Computers in Simulation, Transforming Government, People, Process and Policy, Business Process Management Journal* and*International Journal of Electronic Government Research*. Dr. Norshidah holds Doctor of Philosophy in Management Information Systems from the International Islamic University Malaysia, Master of Business Administration from Ohio University (USA), Bachelor of Science in Mathematics from University of Utah (USA), Graduate Certificate in Management Consultancy with full distinctions from the Institute of Management Consultants Singapore and Senior Management Development Program Certificate from Harvard Business School (USA) organized by the Harvard Alumni Club of Malaysia.

Teddy Mantoro is a professor and a researcher at the Faculty of Science and Technology, USBI-Sampoerna University, Jakarta, Indonesia. He is a Senior Member of IEEE. He obtained a PhD, an MSc and a BSc, all in Computer Science. His PhD was awarded from the School of Computer Science, Australian National University (ANU), Canberra, Australia and MSc from Department of Computer Science, School of Advanced Technology, Asian Institute of Technology, Bangkok, Thailand. His research interest is in pervasive/ubiquitous computing, context aware computing, mobile computing and intelligent environment. He has published 120+ papers including 78 papers in Scopus, and 4 computer science books + 12 books chapters. He was the founder and chair of the Integ Lab (Intelligent Environment Research Group), at KICT-International Islamic University Malaysia, Kuala Lumpur, Malaysia (2009-2012). Integ Lab has received 45 medals from national and international innovation technology competitions. He received 5 Gold, 9 Silver and 11 Bronze Medals (2009-present) for National and International IT Innovation Competitions. He has filed 4 (four) patents in credit to his name. He has also received 20+ research grants to date.

Media Ayu was an associate professor at the Department of Information Systems, Faculty (Kulliyyah) of Information and Communication Technology (KICT), International Islamic University Malaysia, in Kuala Lumpur. Currently, she holds a position as the Head of Institute of Social Development and Community Outreach in Universitas Siswa Bangsa Internasional (USBI), Jakarta, Indonesia. She has published more than 70 research papers in international journals, conferences, book chapters and books in IT related areas. Besides, she has three patents pending to her credit in IT related research and innovation. Her research interest is set around the area of web application development, ubiquitous computing, mobile application for intelligent environment, activity recognition, ICT for teaching and learning, and decision support systems. Dr. Ayu is a member of IEEE and a senior member of IACSIT. She served as a Program Chair of The Third ICT4M Conference in 2010 which is indexed by SCOPUS. She has also served as a program committee member and a reviewer in some international conferences. She has received several awards from international and national innovation exhibition events for her research and innovation products.

Murni Mahmud is an Associate Professor at the Department of Information Systems, Kulliyyah (Faculty) of Information and Communication Technology, International Islamic University Malaysia. She is a researcher in the field of Human Computer Interaction (HCI). She is interested to research in the area of interaction design evaluation methods, usability and accessibility of website user interfaces; usability and accessibility of Information and technology tools/software for elderly and people with special needs. While enriching her knowledge in HCI, she is interested to research in Information Systems; the usage of communication and interaction tools. She is also exploring into the research areas: Electronic Government and Mobile Government, Virtual Reality, Software Engineering, Development and Brain Inspire Computing and learning HCI in Malaysia context. She has completed several research grant projects, which include Evaluation of Islamic Website, Museum and Virtual Reality. She started to develop interest in learning HCI when she worked with users and computers interfaces during her first job at Exxon-Mobil, Malaysia. Murni holds Doctor of Philosophy in Computation, Faculty of Humanities, The University of Manchester, United Kingdom, Bachelor of Science in Computer Science and Master of Science in Computer Science from State University of New York at Binghamton, New York.

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