Handbook of Research on Progressive Trends in Wireless Communications and Networking

Part of the Advances in Wireless Technologies and Telecommunication Book Series

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Wireless communications and networks are developing at an accelerated rate. This rapid development has provided individuals with new opportunities for ubiquitous communication accessibility as well as enabled real-time multi-media technologies and their supporting applications.

Wireless Communications and Networking: Theory and Practice brings together advanced research on diverse topics in wireless communications and networking, including the latest developments in broadband technologies, mobile communications, wireless sensor networks, network security, and cognitive radio networks. This book serves as a comprehensive reference for upper-level students, academicians, and industry professionals interested in uncovering recent advancements in wireless communications and networking.

Topics Covered:
- Network Security
- Wireless Mesh Networks
- 3G and 4G Mobile Communications
- Antennas and Propagation
- Broadband Wireless Access Networks
- Cellular Communications
- Cognitive Radio and Software-Defined Radio
- Smart Wireless Sensors
- UWB Communications
- Wireless Ad-Hoc Sensor Networks

Dr. Mohammad A. Matin is currently working in the Department of Electrical and Electronic Engineering, at Institut Teknologi Brunei (ITB), Brunei Darussalam as an Associate Professor. Before joining ITB, he was with the Department of Electrical Engineering and Computer Science, North South University as an Associate Professor. He obtained his BSc. degree in Electrical and Electronic Engineering from BUET (Bangladesh), MSc degree in digital communication from Loughborough University, UK and PhD degree in wireless communication from Newcastle University, UK. He has taught several courses in communications, electronics and signal processing at KUET, Khulna University, and BRAC University during his career. Dr. Matin was a member of the visiting academic staff at the National University of Malaysia (UKM), University of Malaya (UM). He has published over 60 refereed journals and conference papers. He is the author of six academic books and seven book chapters. He has presented invited talks in Bangladesh, and Malaysia and has served as a member of the program committee for more than 50 international conferences like ICCSIT'09, ICDCS'09, IICCSN'10, ICCSIT'10, ICSCS'11, etc. He also serves as a referee of a few renowned journals, keynote speaker and technical session chair of few international conferences like MIC-CPE 2008, ICCIT 2008, ICMTT 2010, ICCIT 2010, IEEE GLOBECOM 2010, etc. He is currently serving as a member of editorial board of several international journals such as, IET Wireless Sensor Systems (IET WSS), Journal of Electrical and Computer Engineering (JECCE), Hindawi Publishing Corporation, IFCTE, etc. and Guest Editor of special issues of IFCNIS. Dr. Matin is a member of IEEE, IEEE Communications Society (IEEE ComSoc), and several other international organizations. He served as a counselor of IEEE North South University (2008-2011), and secretary of IEEE Communication Society, Bangladesh Chapter (2010-2011). He has received a number of Prizes and Scholarships including the Best student prize (Loughborough University), Commonwealth Scholarship and Overseas Research Scholarship (ORS). He has been fortunate enough to work in WFS Project with Wireless Fibre Systems Ltd, UK as an expert. His current research interests include UWB communication, wireless sensor networks, cognitive radio, EM modeling, and antenna engineering.

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Released: February 2014
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