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## Developments in Wireless Network Prototyping, Design, and Deployment: Future Generations

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### Developments in Wireless Network Prototyping, Design, and Deployment Future Generations



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Wireless networks have become essential for delivering content and knowledge in the information age. Ever-increasing demands are made on these infrastructures as more and more sophisticated knowledge is consumed worldwide.

**Developments in Wireless Network Prototyping, Design, and Deployment: Future Generations** highlights the current design issues in wireless networks, informing scholars and practitioners about advanced prototyping innovations in this field. This book will empower readers to make further advancements in networking and serves as a comprehensive reference for graduate students, scholars, and practitioners alike.

#### Topics Covered:

- Wireless Networks
- Prototype Testing
- Secure Communications
- Quality of Service (QoS) management
- Vehicular Network Simulations
- Computer Network Design
- Cognitive Radio Networks
- Spectrum Allocation and Access
- Body Area Sensor Networks
- Traffic Control Systems

**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.

**Dr. Mohammad A Matin** is currently working at the department of Electrical and Electronic Engineering, ITB Brunei Darussalam 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. From January to March 2008, Dr. Matin was the visiting lecturer at the National University of Malaysia. He has published over 50 refereed journals and conference papers. He is the author of two academic books and three 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, IDCS'09, ICCSN'10, ICCSIT'10, ICCSN'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, ICMMT 2010, ICCIT 2010, IEEE GLOBECOM 2010, ICCIT 2011 etc. He is currently serving as a member of editorial board of several international journals such as IET Wireless Sensor Systems (IET-WSS), IJCTE, JECE, etc. and Guest Editor of special issue of IJCNIS. Dr. Matin is a member of IEEE, IEEE Communications Society (IEEE ComSoc), and several other international organizations. He is the Secretary of IEEE Communication Society, Bangladesh Chapter. 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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