Building Wireless Sensor Networks: Theoretical and Practical Perspectives

By Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy

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Building Wireless Sensor Networks: Theoretical and Practical Perspectives presents the state of the art of wireless sensor networks (WSNs) from fundamental concepts to cutting-edge technologies.

Focusing on WSN topics ideal for undergraduate and postgraduate curricula, this book:

- Provides essential knowledge of the contemporary theory and practice of wireless sensor networking
- Describes WSN architectures, protocols, and operating systems
- Details the routing and data aggregation algorithms
- Addresses WSN security and energy efficiency
- Includes sample programs for experimentation

The book offers overarching coverage of this exciting field, filling a critical gap in the existing literature.

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Editorial Review

Review

"… theoretical and practical aspects of WSNs are covered. Several communication standards are explained. Various information gathering techniques are discussed. Energy management in WSNs is treated in detail. Prevalent security mechanisms are described. On the practical side operating system and programming related matters for WSNs are presented."
?Dr C Mandal, Affiliation: Dept of CSE, IIT Kharagpur

"This book is a handy guide for anyone to learn about the state of the art in wireless sensor networks. The authors are thorough in detail about the ideas and schemes used and also other new ones that have been proposed. The book is divided into chapters as sections of WSNs, and they flow well into each other, culminating in the last chapter where the authors show how the readers can design and test their WSNs in the stimulators practically and implement some of the ideas discussed earlier in the book."
?*IEE Wireless Communications*, April 2016

About the Author

Nandini Mukherjee has been a faculty member in the Department of Computer Science and Engineering, Jadavpur University, Kolkata, India since 1992. Currently, she is a professor in the Department. She has served as director of the School of Mobile Computing and Communication, Jadavpur University for almost six years. Before joining Jadavpur University as a faculty member, Professor Mukherjee served in the industry for nearly three years. Professor Mukherjee received a Commonwealth Scholarship for her doctoral study in the UK, and she completed her Ph.D in computer science from the University of Manchester, UK in 1999. She is an active researcher in her chosen field. Her research interests are in areas of high performance parallel computing, grid and cloud computing, and wireless sensor networks. She is a senior member of the IEEE and IEEE Computer Society.

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