



Communication and Networking in Smart Grids

By Yang Xiao

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Appropriate for researchers, practitioners, and students alike, **Communication and Networking in Smart Grids** presents state-of-the-art approaches and novel technologies for communication networks in smart grids. It explains how contemporary grid networks are developed and deployed and presents a collection of cutting-edge advances to help improve current practice.

Prominent researchers working on smart grids and in related fields around the world explain the fundamental aspects and applications of smart grids. Describing the role that communication and networking will play in future smart grids, they examine power delivery and the complete range of features and services available through smart grids. The book is divided into two parts: *Smart Grids in General* and *Communications and Networks in Smart Grids*. Its comprehensive coverage includes:

- Management of locally generated powers in micro grids
- Multi-perspective service management in virtual power plants
- Distributed algorithms for demand management and grid stability in smart grids
- Electric distribution grid optimizations for plug-in electric vehicles
- Communication technologies, networks, and strategies for practical smart grid deployments?from substations to meters
- Ontology-based resource description and discovery framework for low Carbon grid networks
- QoS in networking for smart grids

Outlining an optimum method for the design of distributed electric power supply and communication networks, the book reports on key ICT system engineering trends for regional energy marketplaces supporting electric mobility. It considers the spectrum of related topics in communication, IT, and security to provide you with the understanding needed to participate in the development, design, and implementation of future smart grid communications and networks.

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Editorial Review

About the Author

About the Editor:

Dr. Yang Xiao worked in industry as a medium access control (MAC) architect involving IEEE 802.11 standard enhancement work before he joined the Department of Computer Science at the University of Memphis in 2002. He is currently a tenured Professor in the Department of Computer Science at the University of Alabama. He was a voting member of IEEE 802.11 working group from 2001 to 2004, and is currently an IEEE senior member. He serves as a panelist for the U.S. National Science Foundation (NSF), Canada Foundation for Innovation's (CFI) Telecommunications expert committee, and the American Institute of Biological Sciences (AIBS), as well as a referee/reviewer for many national and international funding agencies. His areas of research are security, communications/networks, robotics, and telemedicine. He has published more than 180 refereed journal papers and over 200 refereed conference papers and book chapters related to these research areas. Dr. Xiao's research has been supported by the U.S. National Science Foundation (NSF), U.S. Army Research, Global Environment for Network Innovations (GENI), Fleet Industrial Supply Center–San Diego (FISCSD), FIATECH, and the University of Alabama's Research Grants Committee. He currently serves as editor-in-chief for *International Journal of Security and Networks* (IJSN) and *International Journal of Sensor Networks* (IJSNet). He was the founding editor-in-chief for *International Journal of Telemedicine and Applications* (IJTA) (2007–2009).

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