

Preface

As computing and networking technologies are gradually integrated with every aspect of human lives and activities, networked sensing technology is becoming pervasive. Evidently, we are witnessing the emergence of the integration of networked sensing technology with various physical systems. Continuous development of networked sensing technologies leads to exciting applications, which continuously improve human lives and productivity, and help pursue our understanding on the physical world. Nevertheless, we are motivated to provide the community with a reference book of recent advances in this exiting field.

This edited book presents a collection of recent advances in sensor networks areas. It is a contribution of many prominent researchers working on the sensor networks field around the world. The book contains 35 chapters which are divided into 10 parts, and it covers almost wide spectrum of sensor networks, including but not limited to, physical layer issues, media access control, routing, architecture, design and implementation, testbed, security, localization and location discovery, energy efficiency, data gathering and processing, monitoring and detection, multi-media sensor networks, social-economic issues, and medical sensors. Nevertheless, we believe this book will be a good reference for researchers, practitioners, and students who are interested in the research, development, design, and implementation of sensor networks.

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Yang Xiao
Department of Computer Science
The University of Alabama
101 Houser Hall
Box 870290
Tuscaloosa, AL 35487-0290 USA
E-mail: yangxiao@ieee.org

Hui Chen

Department of Mathematics and Computer Science

Virginia State University

P.O.Box 9068

Petersburg, VA 23806 USA

E-mail: huichen@ieee.org

Haizhon Frank Li

Division of Mathematics and Computer Science

University of South Carolina Upstate

Spartanburg, SC 29303, USA

E-mail: fli@uscupstate.edu