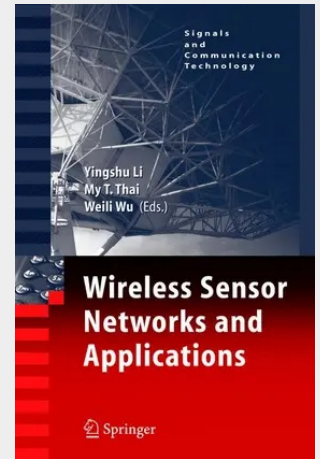


Wireless Sensor Networks and Applications

Wireless sensor networks are currently employed in a variety of applications ranging from medical to military, and from home to industry. This book provides a reference tool for the increasing number of scientists who depend upon sensor networks in a widening variety of ways. Coverage includes network design and modeling, network management, data management, security and applications. The topic covered in each chapter receives expository as well as scholarly treatment, covering its history, reviewing state-of-the-art thinking relative to the topic, and discussing currently unsolved problems of special interest.

Wireless sensor networks are being employed in a variety applications ranging from medical to military, and from home to industry. The principle aim of this book is to provide a reference tool for the increasing number of scientists who depend upon sensor networks in some way. The book is organized into several sections, each including chapters exploring a specific topic. Wireless sensor networks are attracting great attention and there are many research topics yet to be studied. In this book, the topics covered include network design and modelling, network management, data management, security and applications. The articles presented in the book are expository, but of a scholarly nature, including the appropriate history background, a review of the state-of-the-art thinking relative to the topic, as well as a discussion of unsolved problems that are of special interest. The target readers of this book include the researchers in computer science, computer engineering, and applied mathematics, as well as students in these subjects. Specialists as well as general readers will find the articles stimulating and helpful. Book Organization The book is organized into five sections. Section I introduces the design and modelling of sensor networks. Chapter 1, by Iyer, Kulkarni, Mhatre, and Rosenberg, presents a taxonomy of wireless sensor networks, based on their application level objectives, their characteristics and data delivery requirements. Popa and Lewis in Chapter 2 describe some algorithms for systematic exploration of unknown environments using a mobile wireless sensor network.



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