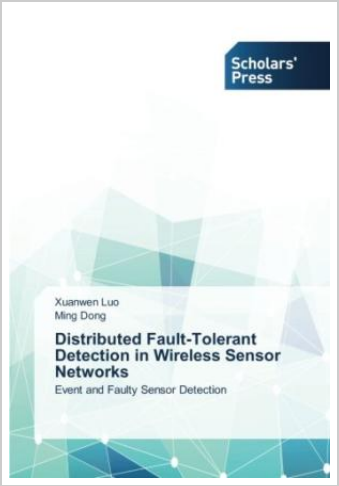

Distributed Fault-Tolerant Detection in Wireless Sensor Networks

By Luo, Xuanwen / Dong, Ming

Condition: New. Publisher/Verlag: Scholar's Press | Event and Faulty Sensor Detection | Event detection, boundary detection, and faulty sensor detection are important research topics in wireless sensor networks. Finite power supplies and limited communication bandwidth within wireless sensor networks mean applications must use these resources efficiently. With that in mind, this book presents the concept of using minimal neighbor sensors in the detection process. This concept can be used when deploy sensors strategically in building sensor networks. Reliability of small sensors is questionable, especially when the sensors are deployed in harsh environments. This book will explore the ways to improve detection accuracy by incorporating sensor reliability explicitly in the fault-tolerant detection process. An adaptive detection system is also presented for event boundary detention. Finally, a hypothesis testing method is used for faulty sensor detection. | Format: Paperback | Language/Sprache: english | 88 pp.

Reviews

Extensive information for book fans. It is writter in basic words and never hard to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- ***Otis Wisoky***

This publication is great. It is full of wisdom and knowledge You will not really feel monotony at at any time of the time (that's what catalogs are for relating to when you ask me).

-- ***Dr. Everett Dicki DDS***