1. Record Nr. UNINA9910139469103321

Titolo	Cooperating embedded systems and wireless sensor networks [[electronic resource] /] / edited by Michel Banatre ... [et al.]
Pubbl/distr/stampa	London, : ISTE Hoboken, NJ, : Wiley, 2008
ISBN	1-282-16479-1 9786612164798 0-470-61081-6 0-470-39345-9
Descrizione fisica	1 online resource (420 p.)
Collana	ISTE ; ; v.3
Classificazione	ST 153 ST 200
Altri autori (Persone)	BanatreMichel <1950->
Disciplina	681.2 681/.2
Soggetti	Embedded computer systems Sensor networks Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cooperating Embedded Systems and Wireless Sensor Networks; Table of Contents; Chapter 1. An Introduction to the Concept of Cooperating Objects and Sensor Networks; 1.1. Cooperating objects and wireless sensor networks; 1.2. Embedded WiSeNts; 1.3. Overview of the book; Chapter 2. Applications and Application Scenarios; 2.1. Summary; 2.2. Introduction; 2.3. Characteristics and requirements of applications; 2.4. State of the art projects; 2.5. Taxonomy of CO applications; 2.5.1. Control and Automation (CA); 2.5.2. Home and Office (HO); 2.5.3. Logistics (L); 2.5.4. Transportation (TA) 2.5.5. Environmental monitoring for emergency services (EM)2.5.6. Healthcare (H); 2.5.7. Security and Surveillance (SS); 2.5.8. Tourism (T); 2.5.9. Education and Training (ET); 2.6. Scenario description structure; 2.7. Application scenarios; 2.7.1. Forest fire detection scenario; 2.7.1.1. Introduction; 2.7.1.2. Scenario characteristics; 2.7.1.3. Functional specification; 2.7.1.4. Object decomposition; 2.7.1.5. Step-by-step

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3.4.7.2. Range-based localization

Sommario/riassunto

A number of different system concepts have become apparent in the broader context of embedded systems over the past few years. Whilst there are some differences between these, this book argues that in fact there is much they share in common, particularly the important notions of control, heterogenity, wireless communication, dynamics/ad hoc nature and cost. The first part of the book covers cooperating object applications and the currently available application scenarios, such as control and automation, healthcare, and security and surveillance. The second part discusses paradigms for algori