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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 scenario description; 2.7.1.6. System requirements; 2.7.2. Good Food; 2.7.2.1. Introduction; 2.7.2.2. Scenario characteristics; 2.7.2.3. User requirements  
2.7.2.4. Functional specification; 2.7.2.5. Object decomposition; 2.7.2.6. Step-by-step scenario description; 2.7.2.7. System requirements;  
2.7.3. CORTEX's Car Control; 2.7.3.1. Introduction; 2.7.3.2. Scenario characteristics; 2.7.3.3. User requirements; 2.7.3.4. Functional specification; 2.7.3.5. Object decomposition; 2.7.3.6. Step-by-step scenario description; 2.7.3.7. System requirements; 2.7.4. Hogthrob; 2.7.4.1. Introduction; 2.7.4.2. Scenario characteristics; 2.7.4.3. User requirements; 2.7.4.4. Functional specification; 2.7.4.5. Object decomposition  
2.7.4.6. Step-by-step scenario description; 2.7.5. Smart surroundings; 2.7.5.1. Introduction; 2.7.5.2. Scenario characteristics; 2.7.5.3. System requirements; 2.7.6. Sustainable bridges; 2.7.6.1. Introduction; 2.7.6.2. Application characteristics; 2.7.6.3. System requirements; 2.7.6.4. Functional specification; 2.7.6.5. Object decomposition; 2.8. Conclusions; 2.9. List of abbreviations; 2.10. Bibliography; Chapter 3. Paradigms for Algorithms and Interactions; 3.1. Summary; 3.2. Introduction; 3.2.1. Aim of the chapter; 3.2.2. Organization of the chapter; 3.3. Definition of concepts  
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## 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, heterogeneity, 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

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