Record Nr. UNINA9910300375003321 Autore Karnouskos Stamatis **Titolo** Applications and Markets for Cooperating Objects / / by Stamatis Karnouskos, Pedro José Marrón, Giancarlo Fortino, Luca Mottola, José Ramiro Martínez-de Dios Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, , 2014 **ISBN** 3-642-45401-1 Edizione [1st ed. 2014.] Descrizione fisica 1 online resource (129 p.) Collana SpringerBriefs in Cooperating Objects, , 2625-6908 Disciplina 004.16 Soggetti Electrical engineering Application software Robotics Automation Communications Engineering, Networks Information Systems Applications (incl. Internet) **Robotics and Automation** 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 at the end of each chapters and index. Nota di contenuto ""Preface""; ""Acknowledgments""; ""Contents""; ""Acronyms""; ""1 Introduction""; ""1.1 Cooperating Objects Context""; ""1.2 Magna Carta of Featured Applications""; ""1.3 Integration Aspects""; ""1.4 Design Space""; ""1.5 Conclusions""; ""References""; ""2 Deployment and Management of Cooperating Objects""; ""2.1 Overview""; ""2.2 Monitoring Railway Bridges"; ""2.2.1 Overview""; ""2.2.2 Application Description/Usage Scenarios""; ""2.2.3 Key Results and Lessons Learned"": ""2.3 Cooperative Industrial Automation Systems"": ""2.3.1 Overview""; ""2.3.2 Application Description/Usage Scenarios"" ""2.3.3 Key Results and Lessons Learned""""2.4 Light-Weight Bird Tracking Sensor Nodes""; ""2.4.1 Overview""; ""2.4.2 Application Description/Usage Scenarios""; ""2.4.3 Key Results and Lessons Learned""; ""2.5 Public Safety Scenarios""; ""2.5.1 Overview""; ""2.5.2 Application Description/Usage Scenarios""; ""2.5.3 Key Results and

Lessons Learned""; ""2.6 Road Tunnel Monitoring and Control""; ""2.6.1 Overview""; ""2.6.2 Application Description/Usage Scenarios""; ""2.6.3 Key Results and Lessons Learned""; ""2.7 Conclusions""; ""References""; ""3 Mobility of Cooperating Objects"" ""3.1 Overview""""3.2 Mobility in Industrial Scenarios""; ""3.2.1 Overview""; ""3.2.2 Application Description/Usage Scenarios""; ""3.2.3 Key Results and Lessons Learned""; ""3.3 Mobility in Air Traffic Management""; ""3.3.1 Overview""; ""3.3.2 Application Description/Usage Scenarios"; ""3.3.3 Key Results and Lessons Learned""; ""3.4 Mobility in Ocean Scenarios""; ""3.4.1 Overview""; ""3.4.2 Application Description/Usage Scenarios""; ""3.4.3 Key Results and Lessons Learned""; ""3.5 Person Assistance in Urban Scenarios""; ""3.5.1 Overview""; ""3.5.2 Application Description/Usage Scenarios"" ""3.5.3 Key Results and Lessons Learned""""3.6 Mobility in Civil Security and Protection""; ""3.6.1 Overview""; ""3.6.2 Application Description/Usage Scenarios""; ""3.6.3 Key Results and Lessons Learned""; ""3.7 Conclusions""; ""References""; ""4 Cooperating Objects in Healthcare Applications""; ""4.1 Overview""; ""4.2 Physical Activity Recognition""; ""4.2.1 Overview""; ""4.2.2 Application Description/Usage Scenarios""; ""4.2.3 Key Results and Lessons Learned""; ""4.3 Real-Time Physical Energy Expenditure"": ""4.3.1 Overview"": ""4.3.2 Application Description/Usage Scenarios"" ""4.3.3 Key Results""""4.4 Emotional Stress Detection""; ""4.4.1 Overview"": ""4.4.2 Application Description/Usage Scenarios"": ""4.4.3 Key Results""; ""4.5 Physical Rehabilitation""; ""4.5.1 Overview""; ""4.5.2 Application Description/Usage Scenarios""; ""4.5.3 Key Results and Lessons Learned""; ""4.6 Energy Aware Fall Detection""; ""4.6.1 Overview"": ""4.6.2 Application Description/Usage Scenarios"": ""4.6.3 Key Results and Lessons Learned"": ""4.7 Distributed Digital Signal Processing""; ""4.7.1 Overview""; ""4.7.2 Application Description/Usage Scenarios"" ""4.7.3 Key Results and Lessons Learned""

## Sommario/riassunto

This book provides an overview and an insight in cooperative objects and defines the classification of topics into the different areas. A significant number of researchers and industrial partners were contacted in order to prepare the roadmap. The book prosents of the main results provided by the corresponding European project "CONET".