1.	Record Nr.	UNINA9910300372003321
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	Titolo	A Remote Integrated Testbed for Cooperating Objects / / by Jose Ramiro Martinez-de Dios, Adrian Jimenez-Gonzalez, Alberto de San Bernabe, Anibal Ollero
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
	ISBN	3-319-01372-6
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (84 p.)
	Collana	SpringerBriefs in Cooperating Objects, , 2625-6908
	Disciplina	620
	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 and index.
	Nota di contenuto	Introduction -- Testbeds for Cooperating Objects -- CONET Integrated Testbed Architecture -- Usability Tools -- CONET Integrated Testbed Experiments -- Conclusions.
	Sommario/riassunto	Testbeds are gaining increasing relevance in research domains and also in industrial applications. However, very few books devoted to testbeds have been published. To the best of my knowledge no book on this topic has been published. This book is particularly interesting for the growing community of testbed developers. I believe the book is also very interesting for researchers in robot-WSN cooperation. This book provides detailed description of a system that can be considered the first testbed that allows full peer-to-peer interoperability between heterogeneous robots and ubiquitous systems such as Wireless Sensor Networks, camera networks and pervasive computing systems. The system architecture includes modules that allows full bidirectional communication between robots and WSN. One robot can The book

describes the current state of the art in development of testbeds integrating Cooperating Object technologies. It describes in detail the testbed specification and design using requirements extracted from surveys among experts in robotics and ubiquitous systems in academia and industry. The book also describes the testbed novel architecture and its hardware and software components. Moreover, it includes details on user support tools to facilitate its use such as remote use using a virtual private network and sets of functionalities of interest for members from the robotics, WSN and robot-WSN communities. Finally, the book illustrates its capabilities and potentialities describing the implementation of some of the experiments that have been performed. Examples from the robotics, WSN and robot-WSN communities are described.

2.	Record Nr.	UNINA9910872968103321
	Titolo	"2020 5th International Conference on Control, Robotics and Cybernetics (CRC)"
	Pubbl/distr/stampa	IEEE, 2020-11-12
	ISBN	1728186242
		9781728186245
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia