

1. Record Nr.	UNINA9910399872403321
Titolo	Human-Robot Interaction : Evaluation Methods and Their Standardization / / edited by Céline Jost, Brigitte Le Pévéduc, Tony Belpaeme, Cindy Bethel, Dimitrios Chrysostomou, Nigel Crook, Marine Grandgeorge, Nicole Mirnig
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-42307-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (418 pages)
Collana	Springer Series on Bio- and Neurosystems, , 2520-8543 ; ; 12
Disciplina	629.8924019
Soggetti	Social sciences Computational intelligence User interfaces (Computer systems) Human-computer interaction Biotechnology Artificial intelligence Society Computational Intelligence User Interfaces and Human Computer Interaction Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Communication between humans: towards an interdisciplinary model of intercomprehension -- An extended framework for characterizing social robots -- A survey on current practices in user evaluation of companion robots -- Conducting Studies in Human-Robot Interaction -- Introduction to (re) using questionnaires in Human-Robot Interaction research -- Qualitative Interview Techniques for Human-Robot Interaction -- Design and development of the USUS Goals Evaluation Framework -- Testing for 'Anthropomorphization' – A Case for Mixed Methods in Human-Robot Interaction -- Evaluating the User Experience of Human-Robot Interaction -- Evaluating Human-Robot Interaction with ethology. .

Sommario/riassunto

This book offers the first comprehensive yet critical overview of methods used to evaluate interaction between humans and social robots. It reviews commonly used evaluation methods, and shows that they are not always suitable for this purpose. Using representative case studies, the book identifies good and bad practices for evaluating human-robot interactions and proposes new standardized processes as well as recommendations, carefully developed on the basis of intensive discussions between specialists in various HRI-related disciplines, e.g. psychology, ethology, ergonomics, sociology, ethnography, robotics, and computer science. The book is the result of a close, long-standing collaboration between the editors and the invited contributors, including, but not limited to, their inspiring discussions at the workshop on Evaluation Methods Standardization for Human-Robot Interaction (EMSHRI), which have been organized yearly since 2015. By highlighting and weighing good and bad practices in evaluation design for HRI, the book will stimulate the scientific community to search for better solutions, take advantages of interdisciplinary collaborations, and encourage the development of new standards to accommodate the growing presence of robots in the day-to-day and social lives of human beings.
