



Human Robot Interaction

Vladimir Kulyukin



Human Robot Interaction:

Human-Robot Interaction Christoph Bartneck, Tony Belpaeme, Friederike Eyssel, Takayuki Kanda, Merel Keijsers, Selma Šabanović, 2024-06-27 The role of robots in society keeps expanding and diversifying bringing with it a host of issues surrounding the relationship between robots and humans This introduction to human robot interaction HRI by leading researchers in this developing field is the first to provide a broad overview of the multidisciplinary topics central to modern HRI research Written for students and researchers from robotics artificial intelligence psychology sociology and design it presents the basics of how robots work how to design them and how to evaluate their performance Self contained chapters discuss a wide range of topics including speech and language nonverbal communication and processing emotions plus an array of applications and the ethical issues surrounding them This revised and expanded second edition includes a new chapter on how people perceive robots coverage of recent developments in robotic hardware software and artificial intelligence and exercises for readers to test their knowledge

Basic Human-robot Interaction David O Johnson, 2024-02-21 The book s content is designed to provide practical guidance and insights for conducting experiments in Human Robot Interaction HRI and publishing the results in scientific journals It includes a detailed explanation of how to conduct HRI experiments and what to do and what not to do to get an article accepted for publication It is tailored to those seeking to deepen their understanding of HRI methodologies statistical measurements and research design The case studies and examples featured in the book focus on interactions between social robots and specific demographics such as children and older adults making it relevant for individuals working in healthcare education and related domains Also covered are common statistical measurements used in HRI research and quantitative qualitative and meta analyses The concepts are illustrated with several international case studies of interactions between social robots and children and older adults and robot learning instead of programming The final chapter explores current trends in HRI and provides insights into what to look for in the coming years It includes an extensive reference section to help HRI researchers in all these areas This book will appeal to an international audience of advanced students researchers industry and others who are actively engaged or interested in the field of HRI

Human-Robot Interaction Daisuke Chugo, 2010-02-01 Human robot interaction HRI is the study of interactions between people users and robots HRI is multidisciplinary with contributions from the fields of human computer interaction artificial intelligence robotics speech recognition and social sciences psychology cognitive science anthropology and human factors There has been a great deal of work done in the area of human robot interaction to understand how a human interacts with a computer However there has been very little work done in understanding how people interact with robots For robots becoming our friends these studies will be required more and more

Human-robot Interaction Michael A. Goodrich, Alan C. Schultz, 2007 Presents a unified treatment of HRI related issues identifies key themes and discusses challenge problems that are likely to shape the field in the near future The survey includes research

results from a cross section of the universities government efforts industry labs and countries that contribute to HRI

Human-robot Interaction Sara Kiesler,Pamela Hinds,2004-06-17 This special issue is made up of five articles which cover the emerging area of human robot interaction The first paper offers a theoretical ecological framework for the design of personal service robots in homes of elderly people Next a field study of two robots that visited a children s elementary school in Japan for two weeks with the purpose

Human-Robot Interaction Céline Jost,Brigitte Le Pévédic,Tony Belpaeme,Cindy Bethel,Dimitrios Chrysostomou,Nigel Crook,Marine Grandgeorge,Nicole Mirnig,2020-05-13 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

Human-Robot Interaction in Social Robotics Takayuki Kanda,Hiroshi Ishiguro,2017-12-19 Human Robot Interaction in Social Robotics explores important issues in designing a robot system that works with people in everyday environments Edited by leading figures in the field of social robotics it draws on contributions by researchers working on the Robovie project at the ATR Intelligent Robotics and Communication Laboratories a world leader in humanoid interactive robotics The book brings together in one volume technical and empirical research that was previously scattered throughout the literature Taking a networked robot approach the book examines how robots work in cooperation with ubiquitous sensors and people over telecommunication networks It considers the use of social robots in daily life grounding the work in field studies conducted at a school train station shopping mall and science museum Critical in the development of network robots these usability studies allow researchers to discover real issues that need to be solved and to understand what kinds of services are possible The book tackles key areas where development is needed namely in sensor networks for tracking humans and robots humanoids that can work in everyday environments and functions for interacting with people It introduces a sensor network developed by the authors and discusses innovations in the Robovie humanoid including several interactive behaviors and design policies Exploring how humans interact with robots in daily life settings this book offers valuable insight into how robots may be used in the future

The combination of engineering empirical and field studies provides readers with rich information to guide in developing practical interactive robots

Human-Robot Interaction Dan Zhang,Bin Wei,2020-08-19 This book introduces state of the art technologies in the field of human robot interactions It details advances made in this field in recent decades including dynamics controls design analysis uncertainties and modelling The text will appeal to graduate students practitioners and researchers in the fields of robotics computer and cognitive science and mechanical engineering

New Frontiers in Human-Robot Interaction Kerstin Dautenhahn,Joe Saunders,2011-12-21 Human Robot Interaction HRI considers how people can interact with robots in order to enable robots to best interact with people HRI presents many challenges with solutions requiring a unique combination of skills from many fields including computer science artificial intelligence social sciences ethology and engineering We have specifically aimed this work to appeal to such a multi disciplinary audience This volume presents new and exciting material from HRI researchers who discuss research at the frontiers of HRI The chapters address the human aspects of interaction such as how a robot may understand provide feedback and act as a social being in interaction with a human to experimental studies and field implementations of human robot collaboration ranging from joint action robots practically and safely helping people in real world situations robots helping people via rehabilitation and robots acquiring concepts from communication This volume reflects current trends in this exciting research field

Design, Development and Sensemaking of Human-Robot Interaction in Care Settings Felix Carros,2024-09-12 Social robots have significantly advanced in capabilities and availability gradually becoming part of everyday life Their new interactive features are relevant to the struggling care sector As Western societies age the demand for care services rises yet the workforce does not grow at the same rate This book explores the potential of social robots to support the workforce and enhance the well being of residents in care homes Using a socio informatics approach this research investigates how residents and caregivers interact with social robots examines and facilitates their appropriation and provides insights into the development of the robots software and hardware The research and development were carried out collaboratively in care homes with the people who work and live there The findings indicate that social robots can be beneficial in care homes They broaden the options for social care workers and when integrated into daily routines can provide brief respite periods Additionally they positively impact residents by engaging them in cognitive and physical activities However the robots can only assist and not replace care workers

Human-Robot Interaction Ramana Vinjamuri,2023-05-10 The book Human Robot Interaction Perspectives and Applications highlights the latest developments and obstacles in the field of human machine interaction including collaborative and humanoid robots symbiosis between humans and robots human human collaboration and robotics Human robot interaction has immense potential in areas like healthcare education manufacturing military and space exploration This volume consists of several chapters that explore various topics such as the use of robotic wheelchairs deep neural networks for robot grasp recognition materials and sensors required for human robot interaction the use of

drone technology in agriculture healthcare robots in smart hospitals and more

Trust in Human-Robot Interaction Chang S. Nam, Joseph B. Lyons, 2020-11-17 Trust in Human Robot Interaction addresses the gamut of factors that influence trust of robotic systems The book presents the theory fundamentals techniques and diverse applications of the behavioral cognitive and neural mechanisms of trust in human robot interaction covering topics like individual differences transparency communication physical design privacy and ethics Presents a repository of the open questions and challenges in trust in HRI Includes contributions from many disciplines participating in HRI research including psychology neuroscience sociology engineering and computer science Examines human information processing as a foundation for understanding HRI Details the methods and techniques used to test and quantify trust in HRI

Social Touch in Human-Robot Interaction Masahiro Shiomi, Hidenobu Sumioka, 2024-03-29 In this book for researchers and students editors Shiomi and Sumioka bring together contributions from researchers working on the CREST project at ATR Deep Interaction Laboratories a world leader in social robotics to comprehensively describe robot touch systems from hardware to applications Appropriate touch from robots to humans is essential for social robots but achieving this requires various solutions at every stage of the touch process Through this book readers will gain an understanding of the needs essential systems and communication cues behaviour designs and real world issues for social touch applications This book compiles and updates technical and empirical research that was previously scattered throughout the literature into a single volume Through individually authored chapters addressing various elements of ATR s CREST project this book tackles key areas where understanding is needed to realize acceptable touch interaction including pre touch interaction interaction design for touching and being touched behaviour changes caused by touch interaction and applications of social touch interaction It introduces a touch sensor and robots developed by the authors including several touch related behaviours and design policies This approach will enable readers to easily apply this knowledge to their own social robotics programs This book is invaluable for anyone who wishes to understand and develop social robots that physically interact with people It is most beneficial for researchers and upper undergraduate and graduate students in the fields of human robot agent computer interaction and social touch interaction and those in the broader fields of engineering computer science and cognitive science

Human-Robot Interaction Paolo Barattini, Federico Vicentini, Gurvinder Singh Virk, Tamas Haidegger, 2019-04-12 Human Robot Interaction Safety Standardization and Benchmarking provides a comprehensive introduction to the new scenarios emerging where humans and robots interact in various environments and applications on a daily basis The focus is on the current status and foreseeable implications of robot safety approaching these issues from the standardization and benchmarking perspectives Featuring contributions from leading experts the book presents state of the art research and includes real world applications and use cases It explores the key leading sectors robotics service robotics and medical robotics and elaborates on the safety approaches that are being developed for effective human robot interaction including physical robot human contacts

collaboration in task execution workspace sharing human aware motion planning and exploring the landscape of relevant standards and guidelines Features Presenting a comprehensive introduction to human robot interaction in a number of domains including industrial robotics medical robotics and service robotics Focusing on robot safety standards and benchmarking Providing insight into current developments in international standards Featuring contributions from leading experts actively pursuing new robot development **Advances in Human-Robot Interaction** Vladimir

Kulyukin,2009-12-01 Rapid advances in the field of robotics have made it possible to use robots not just in industrial automation but also in entertainment rehabilitation and home service Since robots will likely affect many aspects of human existence fundamental questions of human robot interaction must be formulated and if at all possible resolved Some of these questions are addressed in this collection of papers by leading HRI researchers **Human-Robot Interaction: A Survey** ,2007 Human Robot Interaction HRI has recently received considerable attention in the academic community in labs in technology companies and through the media Because of this attention it is desirable to present a survey of HRI to serve as a tutorial to people outside the field and to promote discussion of a unified vision of HRI within the field The goal of this review is to present a unified treatment of HRI related problems to identify key themes and discuss challenge problems that are likely to shape the field in the near future Although the review follows a survey structure the goal of presenting a coherent story of HRI means that there are necessarily some well written intriguing and influential papers that are not referenced Instead of trying to survey every paper we describe the HRI story from multiple perspectives with an eye toward identifying themes that cross applications The survey attempts to include papers that represent a fair cross section of the universities government efforts industry labs and countries that contribute to HRI and a cross section of the disciplines that contribute to the field such as human factors robotics cognitive psychology and design *Human-Robot Interactions in Future Military Operations* Dr Florian Jentsch,Mr Michael Barnes,2012-10-01 Soldier robot teams will be an important component of future battle spaces creating a complex but potentially more survivable and effective combat force The complexity of the battlefield of the future presents its own problems The variety of robotic systems and the almost infinite number of possible military missions create a dilemma for researchers who wish to predict human robot interactions HRI performance in future environments Human Robot Interactions in Future Military Operations provides an opportunity for scientists investigating military issues related to HRI to present their results cohesively within a single volume The issues range from operators interacting with small ground robots and aerial vehicles to supervising large near autonomous vehicles capable of intelligent battlefield behaviors The ability of the human to team with intelligent unmanned systems in such environments is the focus of the volume As such chapters are written by recognized leaders within their disciplines and they discuss their research in the context of a broad based approach Therefore the book allows researchers from differing disciplines to be brought up to date on both theoretical and methodological issues surrounding human robot interaction in military environments The overall

objective of this volume is to illuminate the challenges and potential solutions for military HRI through discussion of the many approaches that have been utilized in order to converge on a better understanding of this relatively complex concept. It should be noted that many of these issues will generalize to civilian applications as robotic technology matures. An important outcome is the focus on developing general human robot teaming principles and guidelines to help both the human factors design and training community develop a better understanding of this nascent but revolutionary technology. Much of the research within the book is based on the Human Research and Engineering Directorate HRED U S Army Research Laboratory ARL 5 year Army Technology Objective ATO research program. The program addressed HRI and teaming for both aerial and ground robotic assets in conjunction with the U S Army Tank and Automotive Research and Development Center TARDEC and the Aviation and Missile Development Center AMRDEC. The purpose of the program was to understand HRI issues in order to develop and evaluate technologies to improve HRI battlefield performance for Future Combat Systems FCS. The work within this volume goes beyond the research results to encapsulate the ATO's findings and discuss them in a broader context in order to understand both their military and civilian implications. For this reason, scientists conducting related research have contributed additional chapters to widen the scope of the original research boundaries.

Human-Robot Interaction: Emerging Technologies Martha Dixon, 2020-09-08. Human robot interaction HRI is a field which studies the interactions between a human and a robot. It is a multidisciplinary field that is based on the principles of artificial intelligence, robotics, human computer interaction, design, natural language understanding, and social sciences. Robots and humans are increasingly sharing the workspace due to the ever widening applicability of robots in different domains. The study of HRI becomes pertinent in this changing landscape to improve utility and evaluate the benefits or risks of such close interaction. The goal of HRI is to create an easy and intuitive communication with the medium of gestures, speech, and facial expressions. Research in HRI is exploring the boundaries of motion planning, human perception, human robot coordination, etc. An emerging direction of robot application has been the use of assistive robots in schools, homes, and hospitals to aid in physical activities, improve education, or act as companions. Military utility, space exploration, rehabilitation, and elderly care, search and rescue, etc. are the other domains where HRI can be vital. There has been rapid progress in human robot interaction, and its applications are finding their way across multiple industries. This book traces the progress of this field and highlights some of its key concepts and applications. Researchers and students in this field will be assisted by this book.

Computational Human-Robot Interaction Andrea Thomaz, Guy Hoffman, Maya Cakmak, 2016-12-20. Computational Human Robot Interaction provides the reader with a systematic overview of the field of Human Robot Interaction over the past decade with a focus on the computational frameworks, algorithms, techniques, and models currently used to enable robots to interact with humans. Human-Robot Interaction Gholamreza Anbarjafari, Sergio Escalera, 2018-07-04. This book takes the vocal and visual modalities and human robot interaction applications into account by considering three main aspects.

namely social and affective robotics robot navigation and risk event recognition This book can be a very good starting point for the scientists who are about to start their research work in the field of human robot interaction

Whispering the Techniques of Language: An Mental Journey through **Human Robot Interaction**

In a digitally-driven earth wherever displays reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within words frequently move unheard. However, nestled within the pages of **Human Robot Interaction** a captivating literary treasure blinking with fresh emotions, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, this wonderful opus attracts readers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the psychological depths with this emotional evaluation, we can embark upon a sincere exploration of the book is key themes, dissect their captivating writing type, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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