

Human Robot Interaction In Social Robotics

Oliver Korn

Human Robot Interaction In Social Robotics:

Human-Robot Interaction in Social Robotics Takayuki Kanda, Hiroshi Ishiquro, 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 Human-Robot Interaction and Social Robotics Mr. Rohit information to guide in developing practical interactive robots Manglik, 2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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 Social Robots: Technological, Societal and Ethical Aspects of Human-Robot Interaction Oliver Korn, 2019-07-01 Social robots not only work with humans in collaborative workspaces we meet them in shopping malls and even more personal settings like health and care Does this imply they should become more human able to interpret and adequately respond to human emotions Do we want them to help elderly people Do we want them to support us when we are old ourselves Do we want them to just clean and keep things orderly or would we accept them helping us to go to the toilet or even feed us if we suffer from Parkinson's disease The answers to these questions differ from person to person They depend on cultural background personal experiences but probably most of all on the robot in question This book covers the phenomenon of social robots from the historic roots to today s best practices and future perspectives To achieve this we used a hands on interdisciplinary approach incorporating findings from computer scientists engineers designers psychologists doctors nurses historians and many more The book also covers a vast spectrum of applications from collaborative industrial work over education to sales Especially for developments with a high societal impact like robots in health and care settings the authors discuss not only technology design and usage but also ethical aspects Thus this book creates both a compendium and a guideline helping to navigate the design space for future developments in social robotics **What Social Robots Can** and Should Do Johanna Seibt, Søren Schack Andersen, 2016-10-14 Social robotics drives a technological revolution of possibly unprecedented disruptive potential both at the socio economic and the socio cultural level The rapid development of the robotics market calls for a concerted effort across a wide spectrum of academic disciplines to understand the transformative potential of human robot interaction This effort cannot succeed without the special expertise in the study of socio cultural interactions norms and values that humanities research provides This book contains the proceedings of the conference What Social Robots Can and Should Do Robophilosophy 2016 TRANSOR 2016 held in Aarhus Denmark in October 2016 The conference is the second event in the biennial Robophilosophy conference series this time combined with an event of the Research Network for Transdisciplinary Studies in Social Robotics TRANSOR Featuring 13 plenaries and 74 session and workshop talks the event turned out to be the world's largest conference in Humanities research in and on social robotics The book is divided into 3 sections Part I and Part III contain the abstracts of plenary lectures and contributions to 6 workshops Artificial Empathy Co Designing Children Robot Interaction Human Robot Joint Action Phronesis for Machine Ethics Robots in the Wild and Responsible Robotics Part II contains short papers for presentations in 7 thematically organized sessions methodological issues ethical tasks and implications emotions in human robot interactions education art

and innovation artificial meaning and rationality social norms and robot sociality and perceptions of social robots. The book will be of interest to researchers in philosophy anthropology sociology psychology linguistics cognitive science robotics computer science and art Since all contributions are prepared for an interdisciplinary readership they are highly accessible and will be of interest to policy makers and educators who wish to gauge the challenges and potentials of putting robots in society. **Social Robots** Marco Nørskov,2017-07-05 Social robotics is a cutting edge research area gathering researchers and stakeholders from various disciplines and organizations. The transformational potential that these machines in the form of for example caregiving entertainment or partner robots pose to our societies and to us as individuals seems to be limited by our technical limitations and phantasy alone. This collection contributes to the field of social robotics by exploring its boundaries from a philosophically informed standpoint. It constructively outlines central potentials and challenges and thereby also provides a stable fundament for further research of empirical qualitative or methodological nature.

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 <u>Human-Robot Interaction</u> 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

<u>Sociality and Normativity for Robots</u> Raul Hakli, Johanna Seibt, 2017-05-30 This volume offers eleven philosophical investigations into our future relations with social robots robots that are specially designed to engage and connect with human beings The contributors present cutting edge research that examines whether and on which terms robots can become members of human societies Can our relations to robots be said to be social Can robots enter into normative relationships with human beings How will human social relations change when we interact with robots at work and at home The authors of

this volume explore these questions from the perspective of philosophy cognitive science psychology and robotics The first three chapters offer a taxonomy for the classification of simulated social interactions investigate whether human social interactions with robots can be genuine and discuss the significance of social relations for the formation of human individuality Subsequent chapters clarify whether robots could be said to actually follow social norms whether they could live up to the social meaning of care in caregiving professions and how we will need to program robots so that they can negotiate the conventions of human social space and collaborate with humans Can we perform joint actions with robots where both sides need to honour commitments and how will such new commitments and practices change our regional cultures The authors connect research in social robotics and empirical studies in Human Robot Interaction to recent debates in social ontology social cognition as well as ethics and philosophy of technology The book is a response to the challenge that social robotics presents for our traditional conceptions of social interaction which presuppose such essential capacities as consciousness intentionality agency and normative understanding The authors develop insightful answers along new interdisciplinary pathways in robophilosophy a new research area that will help us to shape the robot revolution the distinctive technological change of the beginning 21st century Social Robotics Abderrahmane Kheddar, Eiichi Yoshida, Shuzhi Sam Ge, Kenji Suzuki, John-John Cabibihan, Friederike Eyssel, Hongsheng He, 2017-11-13 This book constitutes the refereed proceedings of the 9th International Conference on Social Robotics ICSR 2016 held in Tsukuba Japan in November 2017 The 74 revised full papers presented were carefully reviewed and selected from 110 submissions The theme of the 2017 conference is Embodied Interactive Robots In addition to the technical sessions ICSR 2017 included four workshops 1 Social Robot Intelligence for Social Human Robot Interaction of Service Robots 2 Human Safety and Comfort in Human Robot Interactive Social Environments 3 Modes of Interaction for Social Robots MISR 2017 Postures Gestures and Microinteractions and 4 Religion in Robotics Social Robotics Miguel A. Salichs, Shuzhi Sam Ge, Emilia Ivanova Barakova, John-John Cabibihan, Alan R. Wagner, Álvaro Castro-González, Hongsheng He, 2019-11-21 This book constitutes the refereed proceedings of the 11th International Conference on Social Robotics ICSR 2019 held in Madrid Spain in November 2019 The 69 full papers presented were carefully reviewed and selected from 92 submissions The theme of the 2018 conference is Friendly Robotics The papers focus on the following topics perceptions and expectations of social robots cognition and social values for social robots verbal interaction with social robots social cues and design of social robots emotional and expressive interaction with social robots collaborative SR and SR at the workplace game approaches and applications to HRI applications in health domain robots at home and at public spaces robots in education technical innovations in social robotics and privacy and safety of the social robots Social Robotics Alan R. Wagner, David Feil-Seifer, Kerstin S. Haring, Silvia Rossi, Thomas Williams, Hongsheng He, Shuzhi Sam Ge, 2020-11-07 This book constitutes the refereed proceedings of the 12th International Conference on Social Robotics ICSR 2020 held in Golden CO USA in

November 2020 The conference was held virtually The 57 full papers presented were carefully reviewed and selected from 101 submissions The theme of the 2020 conference is Entertaining Robots The papers focus on the following topics human robot trust and human robot teaming robot understanding and following of social and moral norms physical and interaction design of social robots verbal and nonverbal robot communication interactive robot learning robot motion and proxemics and robots in domains such as education and healthcare **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 Social Robotics Arvin Agah, John-John Cabibihan, Ayanna M. Howard, Miguel A. Salichs, Hongsheng He, 2016-10-06 This book constitutes the refereed proceedings of the 8th International Conference on Social Robotics ICSR 2016 held in Kansas City MO USA in November 2016 The 98 revised full papers presented were carefully reviewed and selected from 107 submissions. The theme of the 2016 conference is Sociorobotics Design and implementation of social behaviors of robots interacting with each other and humans In addition to technical sessions ICSR 2016 included three workshops The Synthetic Method in Social Robotics SMSR 2016 Social Robots A Tool to Advance Interventions for Autism and Using Social Robots to Improve the Quality of Life in the Elderly

Social robots: technological, societal and ethical aspects of human-robot interaction, 2019 Social robots not only work with humans in collaborative workspaces we meet them in shopping malls and even more personal settings like health and care Does this imply they should become more human able to interpret and adequately respond to human emotions Do we want them to help elderly persons Do we want them to support us when we are old ourselves Do we want them to just clean and keep things orderly or would we accept them helping us to go to the toilet or even feed us if we suffer from Parkinson's disease The answers to these questions differ from person to person They depend on cultural background personal experiences but probably most of all on the robot in question This book covers the phenomenon of social robots from the

historic roots to today s best practices and future perspectives To achieve this we used a hands on interdisciplinary approach incorporating findings from computer scientists engineers designers psychologists doctors nurses historians and many more The book also covers a vast spectrum of applications from collaborative industrial work over education to sales Especially for developments with a high societal impact like robots in health and care settings the authors discuss not only technology design and usage but also ethical aspects Thus this book creates both a compendium and a quideline helping to navigate the design space for future developments in social robotics Social Robotics Guido Herrmann, Martin Pearson, Alexander Lenz, Paul Bremner, Adam Spiers, Ute Leonards, 2013-10-23 This book constitutes the refereed proceedings of the 5th International Conference on Social Robotics ICSR 2013 held in Bristol UK in October 2013 The 55 revised full papers and 13 abstracts were carefully reviewed and selected from 108 submissions and are presented together with one invited paper The papers cover topics such as human robot interaction child development and care for the elderly as well as technical issues underlying social robotics visual attention and processing motor control and learning Social Robotics Michael Beetz, Benjamin Johnston, Mary-Anne Williams, 2014-10-17 This book constitutes the refereed proceedings of the 6th International Conference on Social Robotics ICSR 2014 held in Sydney NSW Australia in October 2014 The 41 revised full papers presented in this book were carefully reviewed and selected from numerous submissions Amongst others topics covered are such as interaction and collaboration among robots humans and environments robots to assist the elderly and persons with disabilities socially assistive robots to improve quality of life affective and cognitive sciences for socially interactive robots personal robots for the home social acceptance and impact in the society robot ethics in human society and legal implications context awareness expectation and intention understanding control architectures for social robotics socially appealing design methodologies safety in robots working in human spaces human augmentation rehabilitation and medical robots robot applications in education entertainment and gaming knowledge representation and reasoning frameworks for robot social intelligence cognitive architectures that support social intelligence for robots robots in the workplace human robot interaction creative and entertaining robots **Social Touch in Human-Robot Interaction** Masahiro Shiomi, Hidenobu Sumioka, 2024-03 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 Social Robotics Haizhou Li, John-John Cabibihan, Yeow Kee Tan, 2010-11-02 The papers in this volume were the fruitful scientific results of the Second International Conference on Social Robotics ICSR held during November 23 24 2010 in Singapore which was jointly organized by the Social Robotics Laboratory SRL Interactive Digital Media Institute IDMI the National University of Singapore and 2 Human Language Technology Department the Institute for Infocomm Research I R A STAR Singapore These papers address a range of topics in social robotics and its applications We received paper submissions from America Asia and Europe All the papers were reviewed by at least three referees from the 32 member Program Committee who were assembled from the global community of social robotics researchers This v ume contains the 42 papers that were selected to report on the latest developments and studies of social robotics in the areas of human robot interaction affective and cognitive sciences for interactive robots design philosophies and software archit tures for robots learning adaptation and evolution of robotic intelligence and mec tronics and intelligent control Social Robotics Adriana Tapus, Elisabeth André, Jean-Claude Martin, François Ferland, Mehdi Ammi, 2015-10-27 This book constitutes the refereed proceedings of the 7th International Conference on Social Robotics ICSR 2015 held in Paris France in October 2015 The 70 revised full papers presented were carefully reviewed and selected from 126 submissions The papers focus on the interaction between humans and robots and the integration of robots into our society and present innovative ideas and concepts new discoveries and improvements novel applications on the latest fundamental advances in the core technologies that form the backbone of social robotics distinguished developmental projects as well as seminal works in aesthetic design ethics and philosophy studies on social impact and influence pertaining to social robotics and its interaction and communication with human beings and its social impact on our society

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web circle the correct answers the mass of the system a b is m 2m the force that accelerates a b is the weight of a b the weight of b is mg 2 acceleration of a b is less than mg 2mg g g more than g use a to show the acceleration of a b as a fraction of conceptual physics

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web dec 11 2012 1 kg consider the acceleration of the cart when the applied force is due to a 10 n iron weight attached to a string draped over pulley will the cart accelerate as before at 10 m s2 the answer is no because the mass being accelerated is the mass of the cart plus the mass of the piece of iron that pulls it both masses accelerate

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web dec 12 2012 1 draw sample force of shown hand 3 a which the b which the 4 it is important to distinguish between force and velocity vectors force vectors combine with other force vectors and velocity vectors combine with other velocity vectors do velocity vectors combine with force vectors no 5

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web practice page work and energy 1 how much work energy is needed to lift an object that weighs 200 n to a height of 4 m 800 j 2 how much power is needed to lift the 200 n object to a height of 4 m in 4 s 200 w 3 what is the power output of an engine that does 60 000 j of work in 10 s 6 kw 4 the block of ice weighs 500 newtons a

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web mar $4\ 2013$ the distance between the balls decreases the wavelength decreases just as the distance between the balls in question 5 decreases $30\ m\ 30\ cm\ 1\ m\ s$

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web our intuitive definition of force that is a push or a pull is a good place to start we know that a push or pull has both magnitude and direction therefore it is a vector quantity and can vary considerably in each regard for example a cannon exerts a strong force on a cannonball that is launched into the air

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web jan 14 2013 class date momentum 1 a moving car has momentum if it moves twice as fast its momentum is twice as much 2 two cars one twice as heavy as the other move down a hill at the same speed compared to the lighter car the momentum of the heavier car is twice as much 3 the recoil momentum of a cannon that kicks is

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