Robot People

Anne Gerdes,Mark Coeckelbergh,David Gunkel

Robot People:

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   Human-Robot Personal Relationships Maarten H. Lamers,Fons J. Verbeek,2011-03-07 This book constitutes the thoroughly refereed post conference proceedings of the Third International Conference on Human Robot Personal Relationships held in Leiden The Netherlands in June 2010 The 16 revised full papers presented together with 2 invited papers and 1 keynote lecture were carefully reviewed and selected from 22 submissions The papers feature and discuss studies of personal relationships with artificial partners their formation their possibilities and their consequences Such personal relationships are increasingly attracting attention from scientific fields as social robotics human computer interaction artificial intelligence psychology philosophy sociology   EcoMechatronics Peter Hehenberger,Maki Habib,David Bradley,2022-11-21 This book showcases how EcoMechatronics can increase sustainability within engineering and manufacturing It brings together material from experts in core mechatronics technologies discussing the challenges related to moving towards more environmentally friendly methods and presenting numerous case studies and examples of EcoMechatronics oriented applications The book begins with an introduction to EcoMechatronics in the context of sustainability before covering core conceptual technical and design issues associated with EcoMechatronics It then offers a series of case studies and examples of EcoMechatronics oriented applications and finally a consideration of the educational issues associated with moving to a new generation of environmentally oriented mechatronic engineers EcoMechatronics will be of interest to practicing engineers researchers system developers and graduate students in the field of mechatronics and environmental engineering   **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 <u>Human–Robot Intimate Relationships</u> Adrian David Cheok,Emma Yann Zhang,2019-02-12 The idea of humans falling in love with artificial beings is not a modern conception Our relationship with artificial partners has come a long way since Pygmalion and his ivory lover In recent years there has been a strong upsurge of interest and discussions in the various aspects of intimate relationships between humans and artificial partners This interest is evidenced by the increase in media coverage TV documentaries and films on this topic as well as the active research efforts within the academic community This book provides a comprehensive collection and overview of the latest development in the field of intimate relationships between humans and artificial partners in particular robots and virtual agents It includes relevant research work undertaken by the authors the latest advancements in technology and commercial products and future predictions and insights from leading experts in the area This book contains an in depth discussion of the engineering philosophical psychological ethical and sociological implications of relationships with artificial companions It also gives a glimpse of some future directions of artificial intelligence human computer love and sexual interaction robotics engineering etc It is a great resource for researchers and professionals working in these areas The narrative style of the book also makes it an enjoyable and educational read for everyone *Human-Friendly Robotics 2023* Cristina Piazza,Patricia Capsi-Morales,Luis Figueredo,Manuel Keppler,Hinrich Schütze,2024-03-12 Comprising sixteen independent chapters this book covers recent advancements and emerging pathways within human friendly robotics on physical and cognitive levels Each chapter presents a novel work presented at HFR 2023 by researchers from various robotic domains where new theories methodologies technologies challenges and empirical and experimental studies are discussed The multidisciplinary nature of the authors enriches the compilation with varied viewpoints making it an excellent resource for academics researchers and industry professionals to get acquainted with the state of the art on human robot interaction *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 purpos **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 **Human-Friendly Robotics 2024** Antonio Paolillo,Alessandro Giusti,Gabriele Abbate,2025-02-25 This book covers a wide range of topics related to human robot interaction both physical and cognitive including theories methodologies technologies and experimental studies An increasing number of robots operate closely with humans and are expected to interact with people in everyday life such as patients in hospitals children in schools or elderly people in domestic environments New generations of human friendly robots must meet the needs of these non expert users ensuring safety and trustworthiness both physically and cognitively To realize this vision the International Workshop on Human Friendly Robotics HFR provides an opportunity for academic research and industry experts to exchange and share their experiences and achievements related to the integration of robots into everyday life The 17th edition of HFR took place in Lugano Switzerland on September 30 and October 1 2024 and organized by Dalle Molle Institute for Artificial Intelligence IDSIA USI SUPSI **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 Social Robotics Oskar Palinko,Leon Bodenhagen,John-John Cabibihan,Kerstin Fischer,Selma Šabanović,Katie Winkle,Laxmidhar Behera,Shuzhi Sam Ge,Dimitrios Chrysostomou,Wanyue Jiang,Hongsheng He,2025-03-24 The 3 volume set LNAI 15561 15563 constitutes the refereed proceedings of the 16th International Conference on Social Robotics ICSR AI 2024 held in Odense Denmark during October 23 26 2024 The 109 full papers and 19 short papers included in the proceedings were carefully reviewed and selected from 182 submissions The theme of this year s conference was Empowering Humanity The Tole of Social and Collaborative Robotics in Shaping Our Future The contributions focus on social robotics and AI across the domains of the visual and performing arts including design music live performance and interactive installations **Should Robots Have Standing? The Moral and Legal Status of Social Robots** Anne Gerdes,Mark Coeckelbergh,David Gunkel,2022-07-07 *Human-Computer Interaction* Masaaki Kurosu,Ayako Hashizume,2024-05-31 This

five volume set LNCS 14684 14688 constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 26 International Conference on Human Computer Interaction HCII 2024 held in Washington DC USA during June 29 July 4 2024 The total of 1271 papers and 309 posters included in the HCII 2024 proceedings was carefully reviewed and selected from 5108 submissions The VAMR 2024 proceedings were organized in the following topical sections Part I HCI Theory and Design and Evaluation Methods and Tools Emotions in HCI Part II Human Robot Interaction Child Computer Interaction Part III HCI for Mental Health and Psychological Wellbeing HCI in Healthcare Part IV HCI Environment and Sustainability Design and User Experience Evaluation Case Studies Part V Multimodality and Natural User Interfaces HCI AI Creativity Art and Culture **Machine Ethics and Robot Ethics** Wendell Wallach,Peter Asaro,2020-09-10 Once the stuff of science fiction recent progress in artificial intelligence robotics and machine learning means that these rapidly advancing technologies are finally coming into widespread use within everyday life Such rapid development in these areas also brings with it a host of social political and legal issues as well as a rise in public concern and academic interest in the ethical challenges these new technologies pose This volume is a collection of scholarly work from leading figures in the development of both robot ethics and machine ethics it includes essays of historical significance which have become foundational for research in these two new areas of study as well as important recent articles The research articles selected focus on the control and governance of computational systems the exploration of ethical and moral theories using software and robots as laboratories or simulations inquiry into the necessary requirements for moral agency and the basis and boundaries of rights and questions of how best to design systems that are both useful and morally sound Collectively the articles ask what the practical ethical and legal issues arising from the development of robots will be over the next twenty years and how best to address these future considerations **Social Robotics** Shuzhi Sam Ge,Oussama Khatib,John-John Cabibihan,Reid Simmons,Mary Anne Williams,2012-11-04 This book constitutes the refereed proceedings of the 4th International Conference on Social Robotics ICSR 2012 held in Chengdu China in October 2012 The 66 revised full papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on affective and cognitive sciences for socially interactive robots situated interaction and embodiment robots to assist the elderly and persons with disabilities social acceptance of robots and their impact to the society artificial empathy HRI through non verbal communication and control social telepresence robots embodiments and networks interaction and collaboration among robots humans and environment human augmentation rehabilitation and medical robots I and II Human-computer Interaction Michitaka Hirose,2001 This book covers the proceedings of INTERACT 2001 held in Tokyo Japan July 2001 The conference covers human computer interaction and topics presented include interaction design usability novel interface devices computer supported co operative works visualization and virtual reality The papers presented in this book should appeal to students and professionals who wish to understand multimedia technologies and human computer interaction *Human Factors in*

Robots, Drones and Unmanned Systems Alexandra Medina-Borja,Krystyna Gielo-Perczak ,2025-07-26 Proceedings of the 16th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Orlando Florida USA 26 30 July 2025   **Research and Education in Robotics -- EUROBOT 2008** Achim Gottscheber,Stefan Enderle,David Obdrzalek,2009-09-29 This volume constitutes the refereed proceedings of the International Conference on Research and Education in Robotics EUROBOT 2008 held in Heidelberg Germany in May 2008 The EUROBOT Conference 2008 was accompanied by the international amateur robotics contest EUROBOTopen final edition 2008 The 18 revised full papers presented were carefully reviewed and selected from the 33 papers which had built the main program of the conference A fundamental aspect of EUROBOT is the promotion of sciences and technology among young students and researchers The theme for 2008 was Mission to Mars This resulted in interesting robots as well as interesting papers for this volume

Rising Stars in Human-Robot Interaction Bilge Mutlu,Ginevra Castellano,James Everett Young,Séverin Lemaignan,Adriana Tapus,2022-08-11   **Towards Service Robots for Everyday Environments** Erwin Prassler,Rainer Bischoff,Wolfram Burgard,Robert Haschke,Martin Hägele,Gisbert Lawitzky,Bernhard Nebel,Paul Plöger,Ulrich Reiser,Marius Zöllner,2012-03-12 People have dreamed of machines which would free them from unpleasant dull dirty and dangerous tasks and work for them as servants for centuries if not millennia Service robots seem to finally let these dreams come true But where are all these robots that eventually serve us all day long day for day A few service robots have entered the market domestic and professional cleaning robots lawnmowers milking robots or entertainment robots Some of these robots look more like toys or gadgets rather than real robots But where is the rest This is a question which is asked not only by customers but also by service providers care organizations politicians and funding agencies The answer is not very satisfying Today s service robots have their problems operating in everyday environments This is by far more challenging than operating an industrial robot behind a fence There is a comprehensive list of technical and scientific problems which still need to be solved To advance the state of the art in service robotics towards robots which are capable of operating in an everyday environment was the major objective of the DESIRE project Deutsche Service Robotik Initiative Germany Service Robotics Initiative funded by the German Ministry of Education and Research BMBF under grant no 01IME01A This book offers a sample of the results achieved in DESIRE

Robot People Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Robot People**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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