Robot People

Sara Kiesler,Pamela Hinds

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 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** 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 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   <u>Human-Robot Interaction</u> 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   **Human–Robot Interaction and Social Robotics** Mr. Rohit 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   <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   *Robots and the People Who Love Them* Eve Herold,2024-01-09 The latest developments in robotics and artificial intelligence and a preview of the coming decades based on research and interviews with the world s foremost experts If there s one universal trait among humans it s our social nature The craving to connect is universal compelling and frequently

irresistible This concept is central to Robots and the People Who Love Them Socially interactive robots will soon transform friendship work home life love healthcare warfare education and nearly every nook and cranny of modern life This book is an exploration of how we the most gregarious creatures in the food chain could be changed by social robots On the other hand it considers how we will remain the same and asks how human nature will express itself when confronted by a new class of beings created in our own image Drawing upon recent research in the development of social robots including how people react to them how in our minds the boundaries between the real and the unreal are routinely blurred when we interact with them and how their feigned emotions evoke our real ones science writer Eve Herold takes readers through the gamut of what it will be like to live with social robots and still hold on to our humanity This is the perfect book for anyone interested in the latest developments in social robots and the intersection of human nature and artificial intelligence and robotics and what it means for our future   <u>Advances in Human Factors in Robots and Unmanned Systems</u> Pamela Savage-Knepshield,Jessie Chen,2016-08-16 This book focuses on the importance of human factors in the development of reliable and safe unmanned systems It discusses current challenges such as how to improve perceptual and cognitive abilities of robots develop suitable synthetic vision systems cope with degraded reliability of unmanned systems predict robotic behavior in case of a loss of communication the vision for future soldier robot teams human agent teaming real world implications for human robot interaction and approaches to standardize both display and control of technologies across unmanned systems Based on the AHFE 2016 International Conference on Human Factors in Robots and Unmanned Systems held on July 27 31 2016 in Walt Disney World Florida USA this book is expected to foster new discussion and stimulate new ideas towards the development of more reliable safer and functional devices for carrying out automated and concurrent tasks   **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   <u>Human-Computer Interaction</u> 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–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 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   *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   Rising Stars in Human-Robot Interaction Bilge Mutlu,Ginevra Castellano,James Everett Young,Séverin Lemaignan,Adriana Tapus,2022-08-11

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