



# Robot Companions

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## **Robot Companions:**

*Robot Companions: A Guide to Building Your Own AI Buddy* Pasquale De Marco, 2025-04-05 In this comprehensive guide to robot companions you ll discover everything you need to know about these fascinating machines From the history of their development to the latest advances in technology this book covers it all You ll learn about the different types of robot companions available from simple hobbyist kits to sophisticated AI powered machines You ll also learn about the benefits and challenges of owning a robot companion and the ethical implications of their use Whether you re interested in building your own robot companion or you re simply curious about the future of technology this book has something for everyone It s packed with step by step instructions expert advice and thought provoking insights With this book you ll be able to Build your own robot companion from scratch Program and customize your robot companion Interact with your robot companion and teach it new skills Troubleshoot problems with your robot companion Understand the ethical implications of robot companions Explore the future of robot companions Don t miss out on this opportunity to learn about the exciting world of robot companions Order your copy of this book today This book is perfect for Hobbyists interested in building their own robots Caregivers looking for assistance with daily tasks Parents looking for educational and entertaining toys for their children Anyone who is curious about the future of technology If you like this book write a review

**Robot Companions** E. Oliver Severin, 2004 Robots are everywhere in the hobbyist market but they are also being used in very practical markets for companionship supervision and tutoring This work explores this burgeoning field with instructions on how to build your own companion robot

Artificial Friendship: Nurturing Bonds with Robot Companions Ava Arin, M.B. Chatfield, In a world where technology is rapidly evolving what does it mean to be a friend Artificial Friendship explores the potential for deep and meaningful relationships between humans and robots The book covers a wide range of topics including The history of robot companionship The benefits of robot companionship The challenges of robot companionship The future of robot companionship Artificial Friendship is a must read for anyone interested in the future of human robot interaction It is a thought provoking and insightful book that will challenge your assumptions about what it means to be a friend Order today

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*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

**Designing Robots, Designing Humans** Cathrine Hasse, Dorte Marie Søndergaard, 2019-07-24 Whilst most research concentrates on the imagined future of robotics this book brings together a group of international researchers to explore the different ways that robots and humans engage with one another at this point in history Robotic design is advancing at an incredible pace and consequently the role of robots has expanded beyond mechanical work in the industrial sector to the social and domestic environment From kitchen table pets in the shape of dinosaurs or baby seals to robot arms that assist with eating to self driving cars this book explores the psychological impact of robotic engagement especially in domestic settings Each chapter explores a different aspect of humanoid robotics for example the relationship between robotics and gender citizenship moral agency ethics inequality and psychological development as well as exploring the growing role of robots in education care work and intimate relationships Drawing on research from across the fields of psychology anthropology and philosophy this ground breaking volume discusses the emerging social side of robotics By examining our relationship with robots now this book offers a new and innovative opportunity for understanding our future with robots and robotic culture *Designing Robots Designing Humans* will be interest to researchers of artificial intelligence and humanoid robotics as well as researchers from cognitive and social psychology philosophy computer science anthropology linguistics and engineering backgrounds

*Companion Robots for Older Adults* Sofia Thunberg, 2024-05-06 This thesis explores through a mixed methods approach what happens when companion robots are deployed in care homes for older adults by looking at different perspectives from key stakeholders Nine studies are presented with decision makers in municipalities care staff and older adults as participants and the studies have primarily been carried out in the field in care homes and activity centres where both qualitative e g observations and workshops and quantitative data surveys have been collected The thesis shows that companion robots seem to be here to stay and that they can contribute to a higher quality of life for some older adults It further presents some challenges with a certain discrepancy between what decision makers want and what staff might be able to facilitate For future research and use of companion robots it is key to evaluate each robot model and potential use case separately and develop clear routines for how they should be used and most importantly let all stakeholders be part of the process The knowledge contribution is the holistic view of how different actors affect each other when emerging robot technology is introduced in a care environment

Den h r avhandlingen utforskar vad som h nder n r s llkapsrobotar inf rs p omsorgsboenden f r ldre genom att titta p perspektiv fr n olika intressenter Nio studier presenteras med kommunala beslutsfattare v r dpersonal och ldre som deltagare Studierna har i huvudsak genomf rts i f lt p s rskilda boenden och aktivitetscenter d r b de kvalitativa exempelvis observationer och workshops och kvantitativa data enk ter har samlats in Avhandlingen visar att s llkapsrobotar verkar vara h r f r att stanna och att de kan bidra till en h gre livskvalitet f r vissa ldre Den visar ven p en del utmaningar med en viss

diskrepanns mellan vad beslutsfattare vill införa och vad personalen har möjlighet att utföra i sitt arbete. För framtida forskning och användning av sällskapsrobotar är det viktigt att utvärdera varje robotmodell och varje användningsområde var för sig och ta fram tydliga rutiner för hur de ska användas och viktigast av allt låta alla intressenter vara en del av processen.

Kunskapsbidraget med avhandlingen är en helhetssyn på hur olika aktörer påverkar varandra när ny robotteknik introduceras i en verksamhet.

**HCI International 2020 - Late Breaking Papers: Multimodality and Intelligence** Constantine Stephanidis, Masaaki Kurosu, Helmut Degen, Lauren Reinerman-Jones, 2020-10-16 This book constitutes late breaking papers from the 22nd International Conference on Human Computer Interaction HCII 2020 which was held in July 2020. The conference was planned to take place in Copenhagen, Denmark but had to change to a virtual conference mode due to the COVID-19 pandemic. From a total of 6326 submissions, a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place. In addition, a total of 333 papers and 144 posters are included in the volumes of the proceedings published after the conference as Late Breaking Work papers and posters. These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems.

**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.

**Close Engagements with Artificial Companions** Yorick Wilks, 2010-03-24 What will it be like to admit Artificial Companions into our society? How will they change our relations with each other? How important will they be in the emotional and practical lives of their owners, since we know that people became emotionally dependent even on simple devices like the Tamagotchi? How much social life might they have in contacting each other? The contributors to this book discuss the possibility and desirability of some form of long-term computer Companions, now being a certainty in the coming years. It is a good moment to consider from a set of wide interdisciplinary perspectives both how we shall construct them technically as well as their personal, philosophical, and social consequences. By Companions we mean conversationalists or confidants, not robots but rather computer software agents whose function will be to get to know their owners over a long period. Those may well be

elderly or lonely and the contributions in the book focus not only on assistance via the internet contacts travel doctors etc but also on providing company and Companionship by offering aspects of real personalization      **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      *Animals, Machines, and AI* Erika Quinn,Holly Yanacek,2021-11-08 Sentient animals machines and robots abound in German literature and culture but there has been surprisingly limited scholarship on non human life forms in German studies This volume extends interdisciplinary research in emotion studies to examine non humans and the affective relationships between humans and non humans in modern German cultural history In recent years fascination with emotions developments in robotics and the burgeoning of animal studies in and beyond the academy have given rise to questions about the nature of humanity Using sources from the life sciences literature visual art poetry philosophy and photography this collection interrogates not animal or machine emotions per se but rather uses animals and machines as lenses through which to investigate human emotions and the affective entanglements between humans and non humans The COVID 19 pandemic made us more keenly aware of the importance of both animals and new technologies in our daily lives and this volume ultimately sheds light on the centrality of non humans in the human emotional world and the possibilities that relationships with non humans offer for enriching that world Watch our talk with the editors Erika Quinn and Holly Yanacek here [https://youtu.be/RBMwXah\\_Om8](https://youtu.be/RBMwXah_Om8)      **Computational Approaches for Human-Human and Human-Robot Social Interactions** Vittorio Murino,Cigdem Beyan,Gentiane Venture,Agnieszka Wykowska,2020-06-26 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact)      *Emotional Design in Human-Robot Interaction* Hande Ayanoglu,Emília Duarte,2019-09-09 While social robots participation increases in everyday human life their presence in diverse contexts and situations is expected At the same point users tend to become more demanding regarding their roles abilities behaviour and appearance Thus designers and developers are confronted with the need to design more sophisticated robots that can produce such a positive reaction from users so as to become well accepted in various cases of use Like this Human Robot Interaction has become a developing area Emotions are an important part in human life since they mediate the interaction with other humans entities and or products In recent years there has been an increase in the importance of emotions applied to the design field giving rise to the so

called Emotional Design area In the case of Human Robot Interaction the emotional design can help to elicit e g pleasurable or prevent e g unpleasant emotional affective reactions responses This book gives a practical introduction to emotional design in human robot interaction and supports designers with knowledge and research tools to help them take design decisions based on a User Centred Design approach It should also be useful to people interested in design processes even if not directly related to the design of social robots but instead to other technology based artefacts The text is meant as a reference source with practical guidelines and advice for design issues *Rights for Robots* Joshua C. Gellers, 2020-10-26 Bringing a unique perspective to the burgeoning ethical and legal issues surrounding the presence of artificial intelligence in our daily lives the book uses theory and practice on animal rights and the rights of nature to assess the status of robots Through extensive philosophical and legal analyses the book explores how rights can be applied to nonhuman entities This task is completed by developing a framework useful for determining the kinds of personhood for which a nonhuman entity might be eligible and a critical environmental ethic that extends moral and legal consideration to nonhumans The framework and ethic are then applied to two hypothetical situations involving real world technology animal like robot companions and humanoid sex robots Additionally the book approaches the subject from multiple perspectives providing a comparative study of legal cases on animal rights and the rights of nature from around the world and insights from structured interviews with leading experts in the field of robotics Ending with a call to rethink the concept of rights in the Anthropocene suggestions for further research are made An essential read for scholars and students interested in robot animal and environmental law as well as those interested in technology more generally the book is a ground breaking study of an increasingly relevant topic as robots become ubiquitous in modern society The Open Access version of this book available at <http://www.taylorfrancis.com/books/e> ISBN has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

*Trends in Ambient Intelligent Systems* Kiran Kumar Ravulakollu, Mohammad Ayoub Khan, Ajith Abraham, 2016-03-18 This book demonstrates the success of Ambient Intelligence in providing possible solutions for the daily needs of humans The book addresses implications of ambient intelligence in areas of domestic living elderly care robotics communication philosophy and others The objective of this edited volume is to show that Ambient Intelligence is a boon to humanity with conceptual philosophical methodical and applicative understanding The book also aims to schematically demonstrate developments in the direction of augmented sensors embedded systems and behavioral intelligence towards Ambient Intelligent Networks or Smart Living Technology It contains chapters in the field of Ambient Intelligent Networks which received highly positive feedback during the review process The book contains research work with in depth state of the art from augmented sensors embedded technology and artificial intelligence along with cutting edge research and development of technologies and applications of Ambient Intelligent Networks This book is intended to introduce ideas methods technologies of the future development of humanity Science and Technology *Human Centred Intelligent Systems* Alfred

Zimmermann, Robert J. Howlett, Lakhmi C. Jain, 2020-05-29 This book highlights new trends and challenges in intelligent systems which play an important part in the digital transformation of many areas of science and practice It includes papers offering a deeper understanding of the human centred perspective on artificial intelligence of intelligent value co creation ethics value oriented digital models transparency and intelligent digital architectures and engineering to support digital services and intelligent systems the transformation of structures in digital businesses and intelligent systems based on human practices as well as the study of interaction and the co adaptation of humans and systems All papers were originally presented at the International KES Conference on Human Centred Intelligent Systems 2020 KES HCIS 2020 held on June 17 19 2020 in Split Croatia

**Biologically Inspired Cognitive Architectures 2010** BICA Society. Annual Meeting, 2010 This book presents the proceedings of the First International Conference on Biologically Inspired Cognitive Architectures BICA 2010 which is also the First Annual Meeting of the BICA Society A cognitive architecture is a computational framework for the design of intelligent even conscious agents It may draw inspiration from many sources such as pure mathematics physics or abstract theories of cognition A biologically inspired cognitive architecture BICA is one which incorporates formal mechanisms from computational models of human and animal cognition which currently provide the only physical examples with the robustness flexibility scalability and consciousness that artificial intelligence aspires to achieve The BICA approach has several different goals the broad aim of creating intelligent software systems without focusing on any one area of application attempting to accurately simulate human behavior or gain an understanding of how the human mind works either for purely scientific reasons or for applications in a variety of domains understanding how the brain works at a neuronal and sub neuronal level or designing artificial systems which can perform the cognitive tasks important to practical applications in human society and which at present only humans are capable of The papers presented in this volume reflect the cross disciplinary and integrative nature of the BICA approach and will be of interest to anyone developing their own approach to cognitive architectures Many insights can be found here for inspiration or to import into one's own architecture directly or in modified form Publisher description

*New World Situation: New Directions in Concurrent Engineering* Jerzy Pokojski, Shuichi Fukuda, Józef Salwiński, 2010-11-02 The proceedings contain papers accepted for the 17th ISPE International Conference on Concurrent Engineering which was held in Cracow Poland September 6 10 2010 Concurrent Engineering CE has a history of over twenty years At first primary focus was on bringing downstream information as much upstream as possible by introducing parallel processing of processes in order to prevent errors at the later stage which would sometimes cause irrevocable damage and to reduce time to market During the period of more than twenty years numerous new concepts methodologies and tools have been developed During this period the background for engineering manufacturing has changed extensively Now industry has to work with global markets The globalization brought forth a new network of experts and companies across many different domains and fields in distributed environments These collaborations

integrated with very high level of professionalism and specialisation provided the basis for innovations in design and manufacturing and succeeded in creating new products on a global market **Social Robots in Social Institutions** R.

Hakli,P. Mäkelä,J. Seibt,2023-01-24 Social institutions emerge from social practices which coordinate activities by the explicit statement of rules goals and values When artificial social actors are introduced into the physical and symbolic space of institutions will this affect or transform institutional structures and practices and how can social robotics as an interdisciplinary endeavor contribute to the ability of our institutions to perform their functions in society This book presents the proceedings of Robophilosophy 2022 the 5th in the biennial Robophilosophy conference series held in Helsinki Finland from 16 to 19 August 2022 The theme of this edition of the conference was Social Robots in Social Institutions and it featured international multidisciplinary research from the humanities and social sciences concerning social robotics The 63 papers 41 workshop papers and 5 posters included in this book are divided into 4 sections plenaries sessions workshops and posters with the 41 papers in the Sessions section grouped into 13 subdivisions including elderly care healthcare law education and art as well as ethics and religion These papers explore the anticipated conceptual and practical changes which will come about from the introduction of social robotics into public and private institutions such as public services legal systems social and healthcare services or educational institutions Offering an exploration of the societal significance of social robots for the future of social institutions the book will be of interest to both researchers in robotics and to those working in social institutions and enterprises **Social Robotics** Filippo Cavallo,John-John Cabibihan,Laura Fiorini,Alessandra

Sorrentino,Hongsheng He,Xiaorui Liu,Yoshio Matsumoto,Shuzhi Sam Ge,2023-01-31 The two volume set LNAI 13817 and 13818 constitutes the refereed proceedings of the 14th International Conference on Social Robotics ICSR 2022 which took place in Florence Italy in December 2022 The 111 papers presented in the proceedings set were carefully reviewed and selected from 143 submissions The contributions were organized in topical sections as follows Social robot navigation and interaction capabilities voice tactile Social robot perception and control capabilities Investigating non verbal interaction with Social robots Foster attention and engagement strategies in social robots Special Session 1 Social Robotics Driven by Intelligent Perception and Endogenous Emotion Motivation Core Special Session 2 Adaptive behavioral models of robotic systems based on brain inspired AI cognitive architectures Advanced HRI capabilities for interacting with children Social robots as advanced educational tool Social robot applications in clinical and assistive scenarios Collaborative social robots through dynamic game Design and evaluate user s robot perception and acceptance Ethics gender trust in social robotics

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