# SOCIALLY INTELLIGENT AGENTS Creating Relationships with Computers and Robots

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# **Socially Intelligent Agents**

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#### **Socially Intelligent Agents:**

Socially Intelligent Agents Kerstin Dautenhahn, Alan H. Bond, Lola Canamero, Bruce Edmonds, 2006-04-11 Socially situated planning provides one mechanism for improving the social awareness of agents Obviously this work is in the preliminary stages and many of the limitation and the relationship to other work could not be addressed in such a short chapter The chief limitation of course is the strong commitment to de ning social reasoning solely at he meta level which restricts the subtlety of social behavior Nonetheless our experience in some real world military simulation applications suggest that the approach even in its preliminary state is adequate to model some social interactions and certainly extends the sta of the art found in traditional training simulation systems Acknowledgments This research was funded by the Army Research Institute under contract TAPC ARI BR References 1 J Gratch Emile Marshalling passions in training and education In Proceedings of the Fourth International Conference on Autonomous Agents pages 325 332 New York 2000 ACM Press 2 J Gratch and R Hill Continous planning and collaboration for command and control in joint synthetic battlespaces In Proceedings of the 8th Conference on Computer Generated Forces and Behavioral Representation Orlando FL 1999 3 B Grosz and S Kraus Collaborative plans for complex group action Arti cial Intelli gence 86 2 269 357 1996 4 A Ortony G L Clore and A Collins The Cognitive Structure of Emotions Cambridge University Press 1988 5 R W PewandA S Mayor editors Modeling Human and Organizational Behavior National Academy Press Washington D C 1998 Socially Intelligent Agents Kerstin Dautenhahn, Chisato Numaoka, 1998 **Social Intelligence** Nathan Emery, Nicola Clayton, Christopher D. Frith, 2008 Why are humans so clever The Social intelligence hypothesis explores the idea that this cleverness has evolved through the increasing complexity of social groups Our ability to understand and control nature is a by product of our ability to understand the mental states of others and to use this knowledge to co operate or deceive These abilities have not emerged out of the blue They can be found in many social animals that co operate and compete with one another birds as well as mammals This book brings together contributions from an impressive list of authorities in the field appropriately concluding with a chapter by Nick Humphrey one of the pioneers in this field This volume examines social intelligence in many different animal species and explores its development evolution and the brain systems upon which it depends Better understanding and further development of social intelligence is critical for the future of the human race and the world that we inhabit Our problems will not be solved by mere cleverness but by increased social co operation Human Cognition and Social Agent Technology Kerstin Dautenhahn, 2000-03-15 Human Cognition and Social Agent Technology is written for readers who are curious about what human social cognition is and whether and how advanced software programs or robots can become social agents Topics addressed in 16 peer reviewed chapters by researchers at the forefront of agent research include Narrative intelligence and implementations of story telling systems socially situated avatars and conscious software agents cognitive architectures for socially intelligent agents agents with emotions design issues for interactive systems

artificial life agents contributions to agent design from artistic practice and a Cognitive Technology view on living with socially intelligent agents. The book addresses both software and robotic agents. On the one hand justice is done to the scientific and technical aspects and on the other hand the reader will learn about pioneering technological developments which are necessary for a public discourse and critical evaluation on where social agent technology is leading us and how such a development can be shaped in order to meet the social cultural and cognitive needs of humans The book is suitable for students researchers and everyone interested in this emerging and quickly growing field it does not require any specialist background knowledge Series B The Handbook on Socially Interactive Agents Birgit Lugrin, Catherine Pelachaud, David Traum, 2022-10-19 The Handbook on Socially Interactive Agents provides a comprehensive overview of the research fields of Embodied Conversational Agents Intelligent Virtual Agents and Social Robotics Socially Interactive Agents SIAs whether virtually or physically embodied are autonomous agents that are able to perceive an environment including people or other agents reason decide how to interact and express attitudes such as emotions engagement or empathy They are capable of interacting with people and one another in a socially intelligent manner using multimodal communicative behaviors with the goal to support humans in various domains Written by international experts in their respective fields the book summarizes research in the many important research communities pertinent for SIAs while discussing current challenges and future directions The handbook provides easy access to modeling and studying SIAs for researchers and students and aims at further bridging the gap between the research communities involved In two volumes the book clearly structures the vast body of research The first volume starts by introducing what is involved in SIAs research in particular research methodologies and ethical implications of developing SIAs It further examines research on appearance and behavior focusing on multimodality Finally social cognition for SIAs is investigated using different theoretical models and phenomena such as theory of mind or pro sociality The second volume starts with perspectives on interaction examined from different angles such as interaction in social space group interaction or long term interaction It also includes an extensive overview summarizing research and systems of human agent platforms and of some of the major application areas of SIAs such as Regulated Agent-Based Social Systems Gabriela Lindemann, Daniel education aging support autism and games Moldt, 2004-02-10 This book presents selected extended and reviewed versions of the papers accepted for the First International Workshop on Regulated Agent Systems Theory and Applications RASTA 2002 held in Bologna Italy in July 2002 as part of AAMAS 2002 In addition several new papers on the workshop theme are included as well these were submitted and reviewed in response to a further call for contributions The construction of artificial agent societies deals with questions and problems that are already known from human societies The 16 papers in this book establish an interdisciplinary community of social scientists and computer scientists devoting their research interests to exploiting social theories for the construction and regulation of multi agent systems **Intelligent Agent Technology** Ning Zhong, 2001 This volume is an

attempt to capture the essence of the state of the art of intelligent agent technology and to identify the new challenges and opportunities that it is or will be facing The most important feature of the volume is that it emphasizes a multi faceted holistic view of this emerging technology from its computational foundations in terms of models methodologies and tools for developing a variety of embodiments of agent based systems to its practical impact on tackling real world problems

Human Cognition and Social Agent Technology Kerstin Dautenhahn, 2000 This text discusses design issues of social agent technology with the perspective of human cognition It combines the disciplines of computer science social science and psychology but seeks to avoid being overly technical and is written for an interdisclipinary audience V: Agents Theories, Architectures, and Languages Jörg Müller, Munindar P. Singh, Anand S. Rao, 2007-04-29 The leading edge of computer science research is notoriously ckle New trends come and go with alarming and unfailing regularity In such a rapidly changing eld the fact that research interest in a subject lasts more than a year is worthy of note The fact that after ve years interest not only remains but actually continues to grow is highly unusual As 1998 marked the fth birthday of the International Workshop on Agent Theories Architectures and Languages ATAL it seemed appropriate for the organizers of the original workshop to comment on this remarkable growth and reject on how the eld has developed and matured The rst ATAL workshop was co located with the Eleventh European Conference on Arti cial Intelligence ECAI 94 which was held in Amsterdam The fact that we chose an AI conference to co locate with is telling at that time we expected most researchers with an interest in agents to come from the AI community The workshop whichwasplannedoverthesummerof1993 attracted32submissions andwasattended by 55 people ATAL was the largest workshop at ECAI 94 and the clear enthusiasm on behalfofthecommunitymadethedecisiontoholdanotherATALworkshopsimple The ATAL 94proceedingswereformallypublishedin anuary 1995 under the title Intelligent Agents and included an extensive review article a glossary a list of key agent systems and unusually for the proceedings of an academic workshop a full subject index The high scientic and production values embodied by the ATAL 94 proceedings appear to have been recognized by the community and resulted in ATAL proceedings being the most successful sequence of books published in Springer Verlag s Lecture Notes in Arti cial Intelligence series Intelligent Agents VI. Agent Theories, Architectures, and Languages Nicholas R. Jennings, Yves Lesperance, 2000-02-16 Intelligent agents are one of the most important developments in computer science in the 1990s Agents are of interest in many important application areas ranging from human computer interaction to industrial process control The ATAL workshop series aims to bring together researchers interested in the core aspects of agent technology Speci cally ATAL addresses issues such as th ries of agency software architectures for intelligent agents methodologies and programming languages for realizing agents and software tools for developing and evaluating agent systems One of the strengths of the ATAL workshop series is its emphasis on the synergies between theories infrastructures architectures methodologies formal methods and languages This year s workshop continued the ATAL trend of attracting a

large n ber of high quality submissions In more detail 75 papers were submitted to the ATAL 99 workshop from 19 countries After stringent reviewing 22 papers were accepted for presentation at the workshop After the workshop these papers were revised on the basis of comments received both from the original reviewers and from discussions at the workshop itself This volume Design and Applications of Intelligent Agents Chengqui Zhang, Von-Wun Soo, 2003-05-15 contains these revised papers PRIMA 2000 was the third in the series of Paci c Rim International Workshops on Multi Agents It was held on August 28 29 2000 in Melbourne Australia in conjunction with the Paci c Rim International Conference on Arti cial Intel gence 2000 PRIMA is the main forum for the agent or multi agent researchers in paci c rim countries to exchange and discuss their research results This volume contains selected papers from PRIMA 2000 It covers theory design and applications of intelligent agents The speci c aspects include co dination negotiation learning architecture speci cation allocation and app cation of intelligent agents All papers are of high quality because each of them was reviewed and recommended by at least two international renowned program committee members Many people contributed to this volume We would like to thank all the a hors who submitted papers to the workshop Many thanks also to the members of the program committee who diligently reviewed all the papers Finally we thank the editorial sta of Springer Verlag for publishing this volume in the Lecture Notes in Arti cial Artificial Intelligence, Social Computing and Wearable Technologies Waldemar Karwowski and Tareg Ahram, 2023-12-04 Proceedings of the AHFE International Conference on Human Factors in Design Engineering and Computing AHFE 2023 Hawaii Edition Honolulu Hawaii USA 4 6 December 2023 **Intelligent Agents IV: Agent** Theories, Architectures, and Languages Munindar P. Singh, Anand Rao, Michael J. Wooldridge, 1998-02-18 This carefully edited book constitutes the strictly refereed post workshop proceedings of the 4th International Workshop on Agent Theories Architectures and Languages ATAL 97 held in Providence Rhode Island USA in July 1997 The 25 revised full papers presented were selected from a total of 76 submissions. The book is divided into sections on methodologies architectures and infrastructures coordination planning and monitoring formal methods theories and architectures and methodologies Like its predecessors published in the Intelligent Agents series this volume specifically focuses on the relationships between the theory and the applications of agents Converging Technologies for Improving Human Performance Mihail C. Roco, William Sims Bainbridge, 2013-04-17 M C Roco and W S Bainbridge In the early decades of the 21st century concentrated efforts can unify science based on the unity of nature thereby advancing the combination of nanotechnology biotechnology information technology and new technologies based in cognitive science With proper attention to ethical issues and societal needs converging in human abilities societal technologies could achieve a tremendous improvement outcomes the nation's productivity and the quality of life This is a broad cross cutting emerging and timely opportunity of interest to individuals society and humanity in the long term The phrase convergent technologies refers to the synergistic combination of four major NBIC nano bio info cogno provinces of science and technology each of which is currently progressing at a rapid

rate a nanoscience and nanotechnology b biotechnology and biomedicine including genetic engineering c information technology including advanced computing and communications d cognitive science including cognitive neuroscience Timely and Broad Opportunity Convergence of diverse technologies is based on material unity at the nanoscale and on technology integration from that scale **Socially Intelligent Agents** Kerstin Dautenhahn,2000-11-01 Agent Culture Sabine Payr, Robert Trappl, 2004-06-11 This volume began with a workshop of the Austrian Research Institute for Artificial Intelligence held in 2001 Concerned with embodied agents as cultural objects and subjects the book is divided into three parts It begins by drawing attention to the cultural embeddedness of technology in general and agent design in particular as **Autonomous Systems and Intelligent Agents in Power System Control and Operation** Christian Rehtanz, 2003-07-15 Autonomous systems are one of the most important trends for the next generation of control systems This book is the first to transfer autonomous systems concepts and intelligent agents theory into the control and operation environment of power systems The focus of this book is to design a future control system architecture for electrical power systems which copes with the changed requirements concerning complexity and flexibility and includes several applications for power systems This book draws the whole circle from the theoretical and IT concept of autonomous systems for power system control over the required knowledge based methods and their capabilities to concrete applications within this field

**Social Robotics** Haizhou Li, Shuzhi Sam Ge, Yan Wu, Agnieszka Wykowska, Hongsheng He, Xiaorui Liu, Dongyu Li, Jairo Perez-Osorio, 2021-11-01 This book constitutes the refereed proceedings of the 13th International Conference on Social Robotics ICSR 2021 held in Singapore Singapore in November 2021 The conference was held as a hybrid event The 64 full papers and 15 short papers presented were carefully reviewed and selected from 114 submissions The conference presents topics on humans and intelligent robots and on the integration of robots into the fabric of our society The theme of the 2021 edition was Robotics in our everyday lives emphasizing on the increasing importance of robotics in human daily living

Issues in Multi-Agent Systems Antonio Moreno, Juan Pavón, 2007-12-22 Discover the latest developments and issues in multi agent systems by exploring their applications in various domains such as electronic markets e tourism ambience intelligence and complex system analysis The book is written by two researchers with hands on experience in technology transfer With their practical focus they help you see how agent technology can be applied in many new services and environments 
Intelligent Virtual Agents Ruth Aylett, Brigitte Krenn, Catherine Pelachaud, Hiroshi Shimodaira, 2013-08-16 This book constitutes the proceedings of the 13th International Conference on Intelligent Virtual Agents IVA 2013 held in Edinburgh UK in August 2013 There was a total of 94 submissions The 18 full and 18 short papers presented in this volume were carefully reviewed and selected for inclusion in the book In addition the volume lists the 34 posters which were on display during the conference The papers are organized in topical sections named cognitive models applications dialogue language speech non verbal behaviour and social cultural models and agents

Socially Intelligent Agents: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Socially Intelligent Agents: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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