

Intelligent Agents

Machine Intelligence

15

Edited by K. Furukawa, D. Michie, and S. Muggleton

Machine Intelligence 15 Intelligent Agents

Tarek Sobh



Machine Intelligence 15 Intelligent Agents:

Consciousness in Humanoid Robots Antonio Chella,Angelo Cangelosi,Giorgio Metta,Selmer Bringsjord,2019-06-05 Building a conscious robot is a scientific and technological challenge Debates about the possibility of conscious robots and the related positive outcomes and hazards for human beings are today no longer confined to philosophical circles Robot consciousness is a research field aimed at a two part goal on the one hand scholars working in robot consciousness take inspiration from biological consciousness to build robots that present forms of experiential and functional consciousness On the other hand scholars employ robots as tools to better understand biological consciousness Thus part one of the goal concerns the replication of aspects of biological consciousness in robots by unifying a variety of approaches from AI and robotics cognitive robotics epigenetic and affective robotics situated and embodied robotics developmental robotics anticipatory systems and biomimetic robotics Part two of the goal is pursued by employing robots to advance and mark progress in the study of consciousness in humans and animals Notably neuroscientists involved in the study of consciousness do not exclude the possibility that robots may be conscious This eBook comprises a collection of thirteen manuscripts and an Editorial published by Frontiers in Robotics and Artificial Intelligence under the section Humanoid Robotics and Frontiers in Neurorobotics on the topic Consciousness in Humanoid Robots This compendium aims at collating the most recent theoretical studies models and case studies of machine consciousness that take the humanoid robot as a frame of reference The content in the articles may be applied to many different kinds of robots and to software agents as well Law Librarianship in the Age of AI Ellyssa Kroski,2020-04-06 Written by leading practitioners and visionaries like Robert Ambrogi this groundbreaking survey of current practices and future trends offers an incisive examination of the evolving roles for law librarians **Agent-Oriented Software Engineering III** Fausto Giunchiglia,James Odell,Gerhard Weiß,2003-02-25 This state of the art survey examines the credentials of agent based approaches as a software engineering paradigm The 15 revised full papers presented together with two invited articles were carefully selected from 49 submissions during two rounds of reviewing and improvement for the Third International Workshop on Agent Oriented Software Engineering AOSE 2002 held in Bologna Italy during AAMAS 2002 The papers address all current issues in the field of software agents and multi agent systems relevant for software engineering they are organized in topical sections on modeling specification and validation patterns architectures and reuse UML and agent systems methodologies and tools positions and perspectives **Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience** Beer, Martin,Fasli, Maria,Richards, Debbie,2010-11-30 This book presents readers with a rich collection of ideas from researchers who are exploring the complex tradeoffs that must be made in designing agent systems for education and interactive entertainment Provided by publisher Philosophy of Computer Science William J. Rapaport,2023-02-01 A unique resource exploring the nature of computers and computing and their relationships to the world Philosophy of Computer Science is a

university level textbook designed to guide readers through an array of topics at the intersection of philosophy and computer science Accessible to students from either discipline or complete beginners to both the text brings readers up to speed on a conversation about these issues so that they can read the literature for themselves form their own reasoned opinions and become part of the conversation by contributing their own views Written by a highly qualified author in the field the book looks at some of the central questions in the philosophy of computer science including What is philosophy for readers who might be unfamiliar with it What is computer science and its relationship to science and to engineering What are computers computing algorithms and programs Includes a line by line reading of portions of Turing s classic 1936 paper that introduced Turing Machines as well as discussion of the Church Turing Computability Thesis and hypercomputation challenges to it How do computers and computation relate to the physical world What is artificial intelligence and should we build AIs Should we trust decisions made by computers A companion website contains annotated suggestions for further reading and an instructor s manual Philosophy of Computer Science is a must have for philosophy students computer scientists and general readers who want to think philosophically about computer science **Agent-Based Software Development** ,2004

Innovations and Advanced Techniques in Computer and Information Sciences and Engineering Tarek Sobh,2007-09-04
Innovations and Advanced Techniques in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Computer Engineering and Information Sciences Innovations and Advanced Techniques in Computer and Information Sciences and Engineering includes selected papers form the conference proceedings of the International Conference on Systems Computing Sciences and Software Engineering SCSS 2006 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2006 All aspects of the conference were managed on line not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground breaking conference The on line structure of this high quality event allowed academic professionals and industry participants to contribute work and attend world class technical presentations based on rigorously refereed submissions live without the need for investing significant travel funds or time out of the office Suffice to say that CISSE received submissions from more than 70 countries for whose researchers this opportunity presented a much more affordable dynamic and well planned event to attend and submit their work to versus a classic on the ground conference The CISSE conference audio room provided superb audio even over low speed internet connections the ability to display PowerPoint presentations and cross platform compatibility the conferencing software runs on Windows Mac and any other operating system that supports Java In addition the conferencing system allowed for an unlimited number of participants which in turn granted CISSE the opportunity to allow all participants to

attend all presentations as opposed to limiting the number of available seats for each session

The Origins of Vowel Systems Bart De Boer, 2001 This book addresses the question of how the properties of human vowel systems can be explained Though it is found that vowel systems of human languages are optimal for communicative purposes it is not clear who is doing the optimization If children learn a language they learn to produce sounds that are as close as possible to those used by their parents and peers The hypothesis is put forward that the optimization is the result of self organization in a population of language users Self organization is the emergence of order on a global scale in a system where there are only local interactions It is a phenomenon that appears in many natural systems from purely physical ones such as crystals to systems composed of living organisms such as colonies of insects Recent developments in linguistics indicate that self organization might also play an important role in language The theory is put to the test by implementing it as a computer model This computer model simulates the interaction in a population of artificial agents that can each produce and perceive vowels in a human like way The vowel systems that emerge from the computer simulations closely resemble human vowel systems It is also shown that many simple variations on the basic system can be investigated thus providing valuable insight into the dynamics of systems of speech sounds The ultimate aim of the book is to provide insight into how language has evolved It turns out that the mechanism of self organization can make it easier to explain the evolution of language since it provides an alternative mechanism for the emergence of certain linguistic structures

Software Agents and Soft Computing: Towards Enhancing Machine Intelligence Hyacinth S. Nwana, 1997-01-22 This carefully arranged book is mainly based on work done by the Intelligent Systems Research Group at BT Laboratories essentially in cooperation with internationally leading scientists from outside BT It opens with a detailed introduction surveying the area and putting the work presented in context Conceptual issues surrounding intelligent agents and multi agent systems are investigated and the practical and industrial applicability of this exciting new technology is demonstrated One section is devoted to the rationale philosophy and techniques of the emerging area of soft computing The final section outlines the broader context in dealing with machine intelligence in general and intelligent software systems in particular

Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection Frank Dignum, Juan Manuel Corchado, Fernando De La Prieta, 2021-09-24 This book constitutes the proceedings of the 19th International Conference on Practical Applications of Agents and Multi Agent Systems PAAMS 2021 held in Salamanca Spain in October 2021 The 27 regular and 13 short papers presented in this volume were carefully reviewed and selected from 56 submissions They deal with the application and validation of agent based models methods and technologies in a number of key applications areas including advanced models and learning agent based programming decision making education and social interactions formal and theoretic models health and safety mobility and the city swarms and task allocation

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Machine Intelligence 15 Intelligent Agents**

In some sort of inundated with screens and the cacophony of instantaneous conversation, the profound power and emotional resonance of verbal art usually diminish in to obscurity, eclipsed by the constant barrage of noise and distractions. However, set within the lyrical pages of **Machine Intelligence 15 Intelligent Agents**, a interesting perform of fictional elegance that impulses with raw feelings, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus guides readers on a mental odyssey, gently exposing the latent possible and profound influence stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key styles, dissect their captivating publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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