

Reflections on Artificial Intelligence

Whitby, Elay

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Reflections On Artificial Intelligence The Legal Moral And Ethical Dimensions

**Markus D. Dubber, Frank
Pasquale, Sunit Das**



Reflections On Artificial Intelligence The Legal Moral And Ethical Dimensions:

Reflections on artificial intelligence Blay Whitby,1994 **Reflections on Artificial Intelligence** Blay Whitby,1996
Asserts that for many centuries powerful ideas which reshape our lives have come from religion and the arts and more recently from science and technology The author stresses the importance of this as almost every human takes decisions which can shape th The Oxford Handbook of Ethics of AI Markus D. Dubber, Frank Pasquale, Sunit Das, 2020-06-30 This volume tackles a quickly evolving field of inquiry mapping the existing discourse as part of a general attempt to place current developments in historical context at the same time breaking new ground in taking on novel subjects and pursuing fresh approaches The term A I is used to refer to a broad range of phenomena from machine learning and data mining to artificial general intelligence The recent advent of more sophisticated AI systems which function with partial or full autonomy and are capable of tasks which require learning and intelligence presents difficult ethical questions and has drawn concerns from many quarters about individual and societal welfare democratic decision making moral agency and the prevention of harm This work ranges from explorations of normative constraints on specific applications of machine learning algorithms today in everyday medical practice for instance to reflections on the potential status of AI as a form of consciousness with attendant rights and duties and more generally still on the conceptual terms and frameworks necessarily to understand tasks requiring intelligence whether human or A I Artificial Intelligence Blay Whitby, 2009-01-15 Introduces artificial intelligence what it can do myths about it and ways it may expand in the future **Reflections on Artificial Intelligence for Humanity** Bertrand Braunschweig, Malik Ghallab, 2021-02-06 We already observe the positive effects of AI in almost every field and foresee its potential to help address our sustainable development goals and the urgent challenges for the preservation of the environment We also perceive that the risks related to the safety security confidentiality and fairness of AI systems the threats to free will of possibly manipulative systems as well as the impact of AI on the economy employment human rights equality diversity inclusion and social cohesion need to be better assessed The development and use of AI must be guided by principles of social cohesion environmental sustainability resource sharing and inclusion It has to integrate human rights and social cultural and ethical values of democracy It requires continued education and training as well as continual assessment of its effects through social deliberation The Reflections on AI for Humanity proposed in this book develop the following issues and sketch approaches for addressing them How can we ensure the security requirements of critical applications and the safety and confidentiality of data communication and processing What techniques and regulations for the validation certification and audit of AI tools are needed to develop confidence in AI How can we identify and overcome biases in algorithms How do we design systems that respect essential human values ensuring moral equality and inclusion What kinds of governance mechanisms are needed for personal data metadata and aggregated data at various levels What are the effects of AI and automation on the transformation and social division of labor What are the impacts on economic structures What

proactive and accommodation measures will be required How will people benefit from decision support systems and personal digital assistants without the risk of manipulation How do we design transparent and intelligible procedures and ensure that their functions reflect our values and criteria How can we anticipate failure and restore human control over an AI system when it operates outside its intended scope How can we devote a substantial part of our research and development resources to the major challenges of our time such as climate environment health and education

Robot Ethics Patrick Lin,Keith Abney,George A. Bekey,2014-01-10 Prominent experts from science and the humanities explore issues in robot ethics that range from sex to war Robots today serve in many roles from entertainer to educator to executioner As robotics technology advances ethical concerns become more pressing Should robots be programmed to follow a code of ethics if this is even possible Are there risks in forming emotional bonds with robots How might society and ethics change with robotics This volume is the first book to bring together prominent scholars and experts from both science and the humanities to explore these and other questions in this emerging field Starting with an overview of the issues and relevant ethical theories the topics flow naturally from the possibility of programming robot ethics to the ethical use of military robots in war to legal and policy questions including liability and privacy concerns The contributors then turn to human robot emotional relationships examining the ethical implications of robots as sexual partners caregivers and servants Finally they explore the possibility that robots whether biological computational hybrids or pure machines should be given rights or moral consideration Ethics is often slow to catch up with technological developments This authoritative and accessible volume fills a gap in both scholarly literature and policy discussion offering an impressive collection of expert analyses of the most crucial topics in this increasingly important field

The Technological Singularity Victor Callaghan,James Miller,Roman Yampolskiy,Stuart Armstrong,2017-05-22 This volume contains a selection of authoritative essays exploring the central questions raised by the conjectured technological singularity In informed yet jargon free contributions written by active research scientists philosophers and sociologists it goes beyond philosophical discussion to provide a detailed account of the risks that the singularity poses to human society and perhaps most usefully the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on society The discussions provide perspectives that cover technological political and business issues The aim is to bring clarity and rigor to the debate in a way that will inform and stimulate both experts and interested general readers

Ethical Dimensions of AI Development Bhattacharya, Pronaya,Hassan, Ahdi,Liu, Haipeng,Bhushan, Bharat,2024-10-17 The digital age has witnessed the meteoric rise of artificial intelligence AI a paradigm shifting technology that has redefined the boundaries of computation and decision making Initially AI s journey began with basic rule based systems evolving into the current digital age is dominated by complex machine learning and deep learning models The digital AI presence and progression has brought with it a myriad of ethical challenges necessitating a rigorous examination of AI s role in complex and

interconnected systems Ethical Dimensions of AI Development notes that the core of these challenges are issues of privacy transparency and validity AI's ability to process vast datasets can intrude on individual privacy while opaque algorithmic decision making processes can obscure transparency Addressing these ethical concerns is crucial to fostering trust and ensuring the responsible use of AI technologies in society Covering topics such as accountability discrimination and privacy and security this book is an essential resource for AI researchers and developers data scientists ethicists policy makers legal professionals technology industry leaders and more

The Continuum Companion to Philosophy of Mind James Garvey, 2011-04-28 A comprehensive reference guide to current research in Philosophy of Mind assembled by an international team of leading scholars in the discipline

Governance in the 21st Century OECD, 2001-04-27 This book explores some of the opportunities and risks economic social and technological that decision makers will have to address and outlines what needs to be done to foster society's capacity to manage its future more flexibly and with broader participation of its citizens

Business Models in Emerging Technologies Stylianos Kampakis, Theodosios Mourouzis, Gerard Cardoso, Marialena Zinopoulou, 2022-09-27 This book is a practical guide to two of the most important emerging technologies data science AI and blockchain The world of technology progresses so quickly that we often don't realize how far we've come Over the last 20 years technologies like data science artificial intelligence the Internet of Things and blockchain have transformed the world of business industry and society These emerging technologies offer a wide range of opportunities However they also create new challenges businesses must face such as developing new business models and discovering the best adoption strategies This book is a practical guide to two of the most important emerging technologies data science AI and blockchain With broad applicability across all sectors decision makers would greatly benefit from understanding these fields

E-Governance P. Perri, 2004-03-19 The e governance revolution is said to be changing everything but will all the modelling tools electronic meeting management systems and online consultations really change political judgement in policy formation Using case studies from local and federal government in the US and Europe Perri 6 examines these claims and presents a new theory of how policymakers use and reject information and do and don't trust each other with information in using the new tools before analyzing the implications for democracy

Cognitive and Emotional Processes in Web-Based Education: Integrating Human Factors and Personalization Mourlas, Constantinos, Tsianos, Nikos, Germanakos, Panagiotis, 2009-05-31 This book presents theories and practical frameworks to assist educators and trainers in developing e learning applications Provided by publisher

Mind as Machine Margaret A. Boden, 2006 Cognitive science is among the most fascinating intellectual achievements of the modern era The quest to understand the mind is an ancient one But modern science has offered new insights and techniques that have revolutionized this enquiry Oxford University Press now presents a masterly history of the field told by one of its most eminent practitioners Psychology is the thematic heart of cognitive science which aims to understand human and animal minds But its core theoretical ideas are drawn from cybernetics and

artificial intelligence and many cognitive scientists try to build functioning models of how the mind works In that sense Margaret Boden suggests its key insight is that mind is a very special machine Because the mind has many different aspects the field is highly interdisciplinary It integrates psychology not only with cybernetics AI but also with neuroscience and clinical neurology with the philosophy of mind language and logic with linguistic work on grammar semantics and communication with anthropological studies of cultures and with biological and A Life research on animal behaviour evolution and life itself Each of these disciplines in its own way asks what the mind is what it does how it works how it develops and how it is even possible Boden traces the key questions back to Descartes s revolutionary writings and to the ideas of his followers and his radical critics through the eighteenth and nineteenth centuries Her story shows how controversies in the development of experimental physiology neurophysiology psychology evolutionary biology embryology and logic are still relevant today Then she guides the reader through the complex interlinked paths along which the study of mind developed in the twentieth century Cognitive science covers all mental phenomena not just cognition knowledge but also emotion personality psychopathology social communication religion motor action and consciousness In each area Boden introduces the key ideas and researchers and discusses those philosophical critics who see cognitive science as fundamentally misguided And she sketches the waves of resistance and acceptance on the part of the media and general public showing how these have affected the development of the field No one else could tell this story as Boden can she has been a member of the cognitive science community since the late 1950s and has known many of its key figures personally Her narrative is written in a lively swift moving style enriched by the personal touch of someone who knows the story at first hand Her history looks forward as well as back besides asking how state of the art research compares with the hopes of the early pioneers she identifies the most promising current work Mind as Machine will be a rich resource for anyone working on the mind in any academic discipline who wants to know how our understanding of mental capacities has advanced over the years

Should Robots Have Standing? The Moral and Legal Status of Social Robots Anne Gerdes, Mark Coeckelbergh, David Gunkel, 2022-07-07 **Machine Ethics** Michael Anderson, Susan Leigh Anderson, 2011-05-09 The new field of machine ethics is concerned with giving machines ethical principles or a procedure for discovering a way to resolve the ethical dilemmas they might encounter enabling them to function in an ethically responsible manner through their own ethical decision making Developing ethics for machines in contrast to developing ethics for human beings who use machines is by its nature an interdisciplinary endeavor The essays in this volume represent the first steps by philosophers and artificial intelligence researchers toward explaining why it is necessary to add an ethical dimension to machines that function autonomously what is required in order to add this dimension philosophical and practical challenges to the machine ethics project various approaches that could be considered in attempting to add an ethical dimension to machines work that has been done to date in implementing these approaches and visions of the future of machine ethics research **Moral**

Machines Wendell Wallach, Colin Allen, 2010-07-15 Moral Machines is a fine introduction to the emerging field of robot ethics There is much here that will interest ethicists philosophers cognitive scientists and roboticists Peter Danielson Notre Dame Philosophical Reviews

Ethics - Scientific Research, Ethical Issues, Artificial Intelligence and Education Miroslav Radenkovic, 2023-08-02 Research is essential to the advancement of science and it must have both ethical and scientific value In scientific investigations there are various ethical problems to take into account like informed consent patient privacy patient diversity conflicts of interest etc The book is divided into four sections Ethics in Scientific Research and Specific Ethical Issues Ethics in Scientific Research and Artificial Intelligence Ethics in Scientific Research and Education and Ethics in Scientific Research and Public Awareness Moreover the chapters cover subjects like animal research ethics and ethical concerns in higher education We are certain that clinicians researchers and students will find this volume to be helpful

Artificial Intelligence (AI) in Social Research Prokopis A. Christou, 2025-04-08 The field of social research is characterized by its broad scope and interdisciplinary nature encompassing the examination of human behaviour societies and various facets of social existence however it is influenced by numerous factors including technological advancements It is therefore no surprise that Artificial Intelligence AI has rapidly become a driving force bringing about substantial transformations within the field The use of AI assisted tools and programmes for the collection analysis and interpretation of both quantitative and qualitative data is increasing at a remarkable pace The implications of utilizing these applications are significant and noteworthy While these technologies present numerous opportunities it is important to acknowledge the accompanying dilemmas and risks associated with this form of technological advancement With a focus on AI s research implications this book explores various considerations and examples across different disciplines of social research

Artificial Intelligence and Bioethics Perihan Elif Ekmekci, Berna Arda, 2020-07-30 This book explores major bioethical issues emerging from the development and use of artificial intelligence in medical settings The authors start by defining the past present and future of artificial intelligence in medical settings and then proceed to address the resulting common and specific bioethical inquiries The book discusses bioethical inquiries in two separate sets The first set is comprised of ontological discussions mainly focusing on personhood and being an ethical agent of an artefact The second set discusses bioethical issues resulting from the use of artificial intelligence It focuses particularly on the area of artificial intelligence use in medicine and health services It addresses the main challenges by considering fundamental principles of medical ethics including confidentiality privacy compassion veracity and fidelity Finally the authors discuss the ethical implications of involvement of artificial intelligence agents in patient care by expanding on communication skills in a case based approach The book is of great interest to ethicists medical professionals academicians engineers and scientists working with artificial intelligence

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