

RISKS OF ARTIFICIAL INTELLIGENCE

EDITED BY
VINCENT C. MÜLLER



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Risks Artificial Intelligence Vincent Muller

S. Matthew Liao



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Risks of Artificial Intelligence Vincent C. Müller, 2016-01-05 Featuring contributions from leading experts and thinkers in the theory of artificial intelligence AI this is one of the first books dedicated to examining the risks of AI The book evaluates predictions of the future of AI proposes ways to ensure that AI systems will be beneficial to humans and then critically evaluates such proposals The book covers the latest AI research including the risks and future impacts Ethical issues in AI are covered extensively along with an exploration of autonomous technology and its impact on humanity

Philosophy and Theory of Artificial Intelligence 2021 Vincent C. Müller, 2022-11-14 This book gathers contributions from the fourth edition of the Conference on Philosophy and Theory of Artificial Intelligence PT AI held on 27 28th of September 2021 at Chalmers University of Technology in Gothenburg Sweden It covers topics at the interface between philosophy cognitive science ethics and computing It discusses advanced theories fostering the understanding of human cognition human autonomy dignity and morality and the development of corresponding artificial cognitive structures analyzing important aspects of the relationship between humans and AI systems including the ethics of AI This book offers a thought provoking snapshot of what is currently going on and what are the main challenges in the multidisciplinary field of the philosophy of artificial intelligence

Fundamental Issues of Artificial Intelligence Vincent C. Müller, 2016-06-07 This volume offers a look at the fundamental issues of present and future AI especially from cognitive science computer science neuroscience and philosophy This work examines the conditions for artificial intelligence how these relate to the conditions for intelligence in humans and other natural agents as well as ethical and societal problems that artificial intelligence raises or will raise The key issues this volume investigates include the relation of AI and cognitive science ethics of AI and robotics brain emulation and simulation hybrid systems and cyborgs intelligence and intelligence testing interactive systems multi agent systems and super intelligence Based on the 2nd conference on Theory and Philosophy of Artificial Intelligence held in Oxford the volume includes prominent researchers within the field from around the world

Existential Risks in Peace and Conflict Studies Noah B. Taylor, 2023-03-21 This book explores the topic of peace and the long term survival of the human species Drawing on Existential Risk Studies ERS the book lays out a theoretical framework for drawing new perspectives and approaches for looking toward the future and addressing existential risks related to the complexity and dynamics of conflict Looking at five research lines in Peace and Conflict Studies PCS 1 Great Powers Conflict 2 Peace Pandemic and Conflict 3 Climate Peace and Conflict 4 Emerging Technologies Peace and Conflict and 5 Totalitarianism the chapters discuss how these lines are defined and discussed how they are understood in ERS and what approaches would be beneficial to adapt and integrate into PCS By drawing on ERS and grounding the discussion in lines of research that will be important to the field of PCS this book suggests that long term perspectives are needed in the field especially in regard to existential risk and their implications of conflict

The Impact of Artificial Intelligence on Governance, Economics and

Finance, Volume I Sezer Bozkuş Kahyaoglu, 2021-04-26 The book discusses the effects of artificial intelligence in terms of economics and finance In particular the book focuses on the effects of the change in the structure of financial markets institutions and central banks along with digitalization analyzed based on fintech ecosystems In addition to finance sectors other sectors such as health logistics and industry 4 0 all of which are undergoing an artificial intelligence induced rapid transformation are addressed in this book Readers will receive an understanding of an integrated approach towards the use of artificial intelligence across various industries and disciplines with a vision to address the strategic issues and priorities in the dynamic business environment in order to facilitate decision making processes Economists board members of central banks bankers financial analysts regulatory authorities accounting and finance professionals chief executive officers chief audit officers and chief financial officers chief financial officers as well as business and management academic researchers will benefit from reading this book

Philosophy and Theory of Artificial Intelligence Vincent C. Müller, 2012-08-23 Can we make machines that think and act like humans or other natural intelligent agents The answer to this question depends on how we see ourselves and how we see the machines in question Classical AI and cognitive science had claimed that cognition is computation and can thus be reproduced on other computing machines possibly surpassing the abilities of human intelligence This consensus has now come under threat and the agenda for the philosophy and theory of AI must be set anew re defining the relation between AI and Cognitive Science We can re claim the original vision of general AI from the technical AI disciplines we can reject classical cognitive science and replace it with a new theory e g embodied or we can try to find new ways to approach AI for example from neuroscience or from systems theory To do this we must go back to the basic questions on computing cognition and ethics for AI The 30 papers in this volume provide cutting edge work from leading researchers that define where we stand and where we should go from here

An Anthology of Global Risk SJ Beard, Tom Hobson, 2024-09-03 This anthology brings together a diversity of key texts in the emerging field of Existential Risk Studies It serves to complement the previous volume *The Era of Global Risk An Introduction to Existential Risk Studies* by providing open access to original research and insights in this rapidly evolving field At its heart this book highlights the ongoing development of new academic paradigms and theories of change that have emerged from a community of researchers in and around the Centre for the Study of Existential Risk The chapters in this book challenge received notions of human extinction and civilization collapse and seek to chart new paths towards existential security and hope The volume curates a series of research articles including previously published and unpublished work exploring the nature and ethics of catastrophic global risk the tools and methodologies being developed to study it the diverse drivers that are currently pushing it to unprecedented levels of danger and the pathways and opportunities for reducing this In each case they go beyond simplistic and reductionist accounts of risk to understand how a diverse range of factors interact to shape both catastrophic threats and our vulnerability and exposure to them and reflect on different stakeholder communities policy mechanisms and theories

of change that can help to mitigate and manage this risk Bringing together experts from across diverse disciplines the anthology provides an accessible survey of the current state of the art in this emerging field The interdisciplinary and trans disciplinary nature of the cutting edge research presented here makes this volume a key resource for researchers and academics However the editors have also prepared introductions and research highlights that will make it accessible to an interested general audience as well Whatever their level of experience the volume aims to challenge readers to take on board the extent of the multiple dangers currently faced by humanity and to think critically and proactively about reducing global risk

AI Roman V. Yampolskiy, 2024-02-23 Delving into the deeply enigmatic nature of Artificial Intelligence AI AI Unexplainable Unpredictable Uncontrollable explores the various reasons why the field is so challenging Written by one of the founders of the field of AI safety this book addresses some of the most fascinating questions facing humanity including the nature of intelligence consciousness values and knowledge Moving from a broad introduction to the core problems such as the unpredictability of AI outcomes or the difficulty in explaining AI decisions this book arrives at more complex questions of ownership and control conducting an in depth analysis of potential hazards and unintentional consequences The book then concludes with philosophical and existential considerations probing into questions of AI personhood consciousness and the distinction between human intelligence and artificial general intelligence AGI Bridging the gap between technical intricacies and philosophical musings AI Unexplainable Unpredictable Uncontrollable appeals to both AI experts and enthusiasts looking for a comprehensive understanding of the field whilst also being written for a general audience with minimal technical jargon

Ethics of Artificial Intelligence S. Matthew Liao, 2020-08-18 This is the first volume to provide an overview of critical perspectives on the ethics of Artificial Intelligence AI at a point when growth in AI technologies has exploded but the study of the difficult moral problems presented by AI use is only in its infancy The book features seventeen essays organized into four sections written by leading academics and prominent figures in the field many representing well known big tech companies Some topics covered include self driving cars and autonomous drones caretaking robots and the possible consciousness of superintelligent AI systems

Artificial Intelligence in Biobanking Michaela Th. Mayrhofer, Santa Slokenberga, Signe Mežinska, 2025-08-21 This insightful collection highlights the ethical legal and societal issues associated with the increasing role played by artificial intelligence AI in medical biobanks a key research resource in the global study of disease prevention and improving individual care Although AI has the potential to speed up health research the book considers numerous questions that the technology poses from the building of trust to the prevention of harm to individuals vulnerable groups or entire populations Examining the tension between scientific progress and safeguarding of individual rights and covering key issues such as accountability data bias transparency and liability the book considers the legal landscape in which biobanks operate and what layers of governance are required to oversee such an important resource in a fluid technological age A timely volume that brings together scholars and experts from social sciences ethics and law this important book will interest

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Table of Contents Risks Artificial Intelligence Vincent Muller

1. Understanding the eBook Risks Artificial Intelligence Vincent Muller
 - The Rise of Digital Reading Risks Artificial Intelligence Vincent Muller
 - Advantages of eBooks Over Traditional Books
2. Identifying Risks Artificial Intelligence Vincent Muller
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Risks Artificial Intelligence Vincent Muller
 - User-Friendly Interface
4. Exploring eBook Recommendations from Risks Artificial Intelligence Vincent Muller
 - Personalized Recommendations
 - Risks Artificial Intelligence Vincent Muller User Reviews and Ratings
 - Risks Artificial Intelligence Vincent Muller and Bestseller Lists

5. Accessing Risks Artificial Intelligence Vincent Muller Free and Paid eBooks
 - Risks Artificial Intelligence Vincent Muller Public Domain eBooks
 - Risks Artificial Intelligence Vincent Muller eBook Subscription Services
 - Risks Artificial Intelligence Vincent Muller Budget-Friendly Options
6. Navigating Risks Artificial Intelligence Vincent Muller eBook Formats
 - ePub, PDF, MOBI, and More
 - Risks Artificial Intelligence Vincent Muller Compatibility with Devices
 - Risks Artificial Intelligence Vincent Muller Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Risks Artificial Intelligence Vincent Muller
 - Highlighting and Note-Taking Risks Artificial Intelligence Vincent Muller
 - Interactive Elements Risks Artificial Intelligence Vincent Muller
8. Staying Engaged with Risks Artificial Intelligence Vincent Muller
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Risks Artificial Intelligence Vincent Muller
9. Balancing eBooks and Physical Books Risks Artificial Intelligence Vincent Muller
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Risks Artificial Intelligence Vincent Muller
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Risks Artificial Intelligence Vincent Muller
 - Setting Reading Goals Risks Artificial Intelligence Vincent Muller
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Risks Artificial Intelligence Vincent Muller
 - Fact-Checking eBook Content of Risks Artificial Intelligence Vincent Muller
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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