

Moral Machines

Teaching Robots Right from Wrong



Wendell Wallach - Colin Allen

Moral Machines Teaching Robots Right From Wrong

Philip L. Frana, Michael J. Klein



Moral Machines Teaching Robots Right From Wrong:

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. *Moral Machines: Teaching Robots Right from Wrong* Wendell Wallach, Colin Allen, 2008-11-19. Computers are already approving financial transactions, controlling electrical supplies, and driving trains. Soon service robots will be taking care of the elderly in their homes, and military robots will have their own targeting and firing protocols. Colin Allen and Wendell Wallach argue that as robots take on more and more responsibility, they must be programmed with moral decision-making abilities for our own safety. Taking a fast-paced tour through the latest thinking about philosophical ethics and artificial intelligence, the authors argue that even if full moral agency for machines is a long way off, it is already necessary to start building a kind of functional morality in which artificial moral agents have some basic ethical sensitivity. But the standard ethical theories don't seem adequate, and more socially engaged and engaging robots will be needed. As the authors show, the quest to build machines that are capable of telling right from wrong has begun. *Moral Machines* is the first book to examine the challenge of building artificial moral agents, probing deeply into the nature of human decision-making and ethics.

Moral Machines Wendell Wallach, 2009. *Moral Machines* is the first book to examine the challenge of building artificial moral agents, probing deeply into the nature of human decision-making and ethics. **A Companion to Applied Philosophy of AI** Martin Hähnel, Regina Müller, 2025-08-12. A comprehensive guide to AI's ethical, epistemological, and legal impacts through applied philosophy. Artificial intelligence (AI) influences nearly every aspect of society. *A Companion to Applied Philosophy of AI* provides a critical philosophical framework for understanding and addressing its complexities. Edited by Martin Hähnel and Regina Müller, this volume explores AI's practical implications in epistemology, ethics, politics, and law. Moving beyond a narrow ethical perspective, the authors advocate for a multifaceted approach that synthesizes diverse disciplines and perspectives, offering readers a nuanced and integrative understanding of AI's transformative role. The Companion explores a broad range of topics, from issues of transparency and expertise in AI-driven systems to discussions of ethical theories and their relevance to AI, such as consequentialism, deontology, and virtue ethics. Filling a significant gap in the current academic literature, this groundbreaking volume also addresses AI's broader social, political, and legal dimensions, equipping readers with practical frameworks to navigate this rapidly evolving field. Offering fresh and invaluable insights into the interplay between philosophical thought and technological innovation, *A Companion to Applied Philosophy of AI* features contributions from leading philosophers and interdisciplinary experts. It offers a unique applied philosophy perspective on artificial intelligence, covering diverse topics including ethics, epistemology, politics, and law. Encouraging interdisciplinary dialogue to better understand AI's profound implications for humanity, *A Companion to Applied Philosophy of AI* is ideal for undergraduate and graduate courses in applied philosophy, AI ethics, political theory, and

legal philosophy It is also a vital reference for those working in areas including AI policy governance and interdisciplinary research **Unlocking Happiness at Work** Jennifer Moss, 2016-09-03 WINNER Independent Press Awards 2018 Business Motivation Category Unlocking Happiness at Work takes you on a journey into why and how leaders should become compassionate capitalists and ensure that their teams thrive This book debunks the myth that happiness at work is a waste of time and demonstrates how it can deliver a more productive and engaged workforce which can have real impact on the bottom line Based on two decades of scientific research real time data interviews and case studies this book proves that happiness fuels higher performance provides a greater sense of purpose and spreads passion throughout organizations With insightful practical guidance throughout Unlocking Happiness at Work is a lively and persuasive exploration of how to be happier and make others happier through the power of habits emotional intelligence and an innovative approach to work life flow Case studies from lululemon Zappos Misfit Inc The Body Shop and more are supported by tangible data and key performance indicators that show the significant benefits that come from adopting a happiness strategy This is an essential resource for leaders who want to increase sustainability attract new talent improve their brand and boost profitability in a way that is life enhancing for them and their people

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

AI Ethics Paula Boddington, 2023-03-30 This book introduces readers to critical ethical concerns in the development and use of artificial intelligence Offering clear and accessible information on central concepts and debates in AI ethics it explores how related problems are now forcing us to address fundamental age old questions about human life value and meaning In addition the book shows how foundational and theoretical issues relate to concrete controversies with an emphasis on understanding how ethical questions play out in practice All topics are explored in depth with clear explanations of relevant

debates in ethics and philosophy drawing on both historical and current sources Questions in AI ethics are explored in the context of related issues in technology regulation society religion and culture to help readers gain a nuanced understanding of the scope of AI ethics within broader debates and concerns Written with both students and educators in mind the book is easy to use with key terms clearly explained and numerous exercises designed to stretch and challenge It offers readers essential insights into the evolving field of AI ethics Moreover it presents a range of methods and strategies that can be used to analyse and understand ethical questions which are illustrated throughout with case studies

Encyclopedia of Artificial Intelligence Philip L. Frana, Michael J. Klein, 2021-04-07 This authoritative reference work will provide readers with a complete overview of artificial intelligence AI including its historic development and current status existing and projected AI applications and present and potential future impact on the United States and the world Some people believe that artificial intelligence AI will revolutionize modern life in ways that improve human existence Others say that the promise of AI is overblown Still others contend that AI applications could pose a grave threat to the economic security of millions of people by taking their jobs and otherwise rendering them obsolete or even worse that AI could actually spell the end of the human race This volume will help users understand the reasons AI development has both spirited defenders and alarmed critics explain theories and innovations like Moore's Law mindcloning and Technological Singularity that drive AI research and debate and give readers the information they need to make their own informed judgment about the promise and peril of this technology All of this coverage is presented using language and terminology accessible to a lay audience

Understanding Digital Ethics Jonathan Beever, Rudy McDaniel, Nancy A. Stanlick, 2019-11-28 Rapid changes in technology and the growing use of electronic media signal a need for understanding both clear and subtle ethical and social implications of the digital and of specific digital technologies *Understanding Digital Ethics Cases and Contexts* is the first book to offer a philosophically grounded examination of digital ethics and its moral implications Divided into three clear parts the authors discuss and explain the following key topics Becoming literate in digital ethics Moral viewpoints in digital contexts Motivating action in digital ethics Speed and scope of digital information Moral algorithms and ethical machines The digital and the human Digital relations and empathy machines Agents autonomy and action Digital and ethical activism The book includes cases and examples that explore the ethical implications of digital hardware and software including videogames social media platforms autonomous vehicles robots voice enabled personal assistants smartphones artificially intelligent chatbots military drones and more *Understanding Digital Ethics* is essential reading for students and scholars of philosophical ethics those working on topics related to digital technology and digital moral literacy and practitioners in related fields

Philosophy and Computing Thomas M. Powers, 2017-10-26 This book features papers from CEPE IACAP 2015 a joint international conference focused on the philosophy of computing Inside readers will discover essays that explore current issues in epistemology philosophy of mind logic and philosophy of science from the lens of computation Coverage

also examines applied issues related to ethical social and political interest The contributors first explore how computation has changed philosophical inquiry Computers are now capable of joining humans in exploring foundational issues Thus we can ponder machine generated explanation thought agency and other quite fascinating concepts The papers are also concerned with normative aspects of the computer and information technology revolution They examine technology specific analyses of key challenges from Big Data to autonomous robots to expert systems for infrastructure control and financial services The virtue of a collection that ranges over philosophical questions such as this one does lies in the prospects for a more integrated understanding of issues These are early days in the partnership between philosophy and information technology Philosophers and researchers are still sorting out many foundational issues They will need to deploy all of the tools of philosophy to establish this foundation This volume admirably showcases those tools in the hands of some excellent scholars

Ethics in the AI, Technology, and Information Age Michael Boylan, Wanda Teays, 2022-05-11 Increasingly technology the Internet and social media are playing a major part in our lives What should we think about the ethical issues that arise such as the changing role of intelligent machines in this Information Age The impact of technology upon society is a perennial question but the power of computing and artificial intelligence has ratcheted up the ethical implications of this relationship It merits careful consideration Ethics in the AI Technology and Information Age brings together a cohort of international scholars to explore the ethical ramifications of the latest technologies and their effects on our lives This it does in three parts 1 theoretical considerations 2 practical applications and 3 challenges Beginning with theoretical essays the book investigates the relationship between technology and nature the limits of being human versus machine and the moral implications of artificial intelligence The book then examines key questions such as ownership of technology artificial intelligence s replacement of human jobs and functions privacy and cybersecurity the ethics of self driving cars and the problematic aspects of drone warfare With an appendix of films and documentaries to inspire further discussion on these topics students and scholars will find Ethics in the AI Technology and Information Age an essential and engaging resource both in the classroom and in their daily technology filled lives

Robots David E. Newton, 2018-09-07 Robots A Reference Handbook differs from most other books on robotics in the variety of resources that it provides to readers of all ages Robots A Reference Handbook teaches readers about a wide variety of robots It opens with a history of robotics dating to ancient Greece and Rome at which time an impressive array of automata were invented for entertainment religious and instructional purposes It follows the development of automata and robots in ancient China and the Islamic world through to Western Civilization in the present day Subsequent chapters describe the wide array of applications to which robots are put today and discuss the technical social political ethical and economic issues created by their increasing use Additionally a number of essays by interested individuals highlight various aspects of robotics development The remaining chapters of the book provide resources that will assist readers in learning more about the topic of robotics

Responsible Artificial

Intelligence Virginia Dignum,2019-11-04 In this book the author examines the ethical implications of Artificial Intelligence systems as they integrate and replace traditional social structures in new sociocognitive technological environments She discusses issues related to the integrity of researchers technologists and manufacturers as they design construct use and manage artificially intelligent systems formalisms for reasoning about moral decisions as part of the behavior of artificial autonomous systems such as agents and robots and design methodologies for social agents based on societal moral and legal values Throughout the book the author discusses related work conscious of both classical philosophical treatments of ethical issues and the implications in modern algorithmic systems and she combines regular references and footnotes with suggestions for further reading This short overview is suitable for undergraduate students in both technical and non technical courses and for interested and concerned researchers practitioners and citizens The Oxford Handbook of the Sociology of Machine Learning Juan Pablo Pardo-Guerra,2025-04 Machine learning renowned for its ability to detect patterns in large datasets has seen a significant increase in applications and complexity since the early 2000s The Oxford Handbook of the Sociology of Machine Learning offers a state of the art and forward looking overview of the intersection between machine learning and sociology exploring what sociology can gain from machine learning and how it can shed new light on the societal implications of this technology Through its 39 chapters an international group of sociologists address three key questions First what can sociologists yield from using machine learning as a methodological tool This question is examined across various data types including text images and sound with insights into how machine learning and ethnography can be combined Second how is machine learning being used throughout society and what are its consequences The Handbook explores this question by examining the assumptions and infrastructures behind machine learning applications as well as the biases they might perpetuate Themes include art cities expertise financial markets gender race intersectionality law enforcement medicine and the environment covering contexts across the Global South and Global North Third what does machine learning mean for sociological theory and theorizing Chapters examine this question through discussions on agency culture human machine interaction influence meaning power dynamics prediction and postcolonial perspectives The Oxford Handbook of the Sociology of Machine Learning is an essential resource for academics and students interested in artificial intelligence computational social science and the role and implications of machine learning in society **Social Robotics** Filippo Cavallo,John-John Cabibihan,Laura Fiorini,Alessandra Sorrentino,Hongsheng He,Xiaorui Liu,Yoshio Matsumoto,Shuzhi Sam Ge,2023-02-01 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 Robots in Popular Culture Richard A.

Hall,2021-07-12 Robots in Popular Culture Androids and Cyborgs in the American Imagination seeks to provide one go to reference for the study of the most popular and iconic robots in American popular culture In the last 10 years technology and artificial intelligence AI have become not only a daily but a minute by minute part of American life more integrated into our lives than anyone would have believed even a generation before Americans have long known the adorable and helpful R2 D2 and the terrible possibilities of Skynet and its army of Terminators Throughout we have seen machines as valuable allies and horrifying enemies Today Americans cling to their mobile phones with the same affection that Luke Skywalker felt for the squat R2 D2 Meanwhile our phones personal computers and cars have attained the ability to know and learn everything about us This volume opens with essays about robots in popular culture followed by 100 A Z entries on the most famous AIs in film comics and more Sidebars highlight ancillary points of interest such as authors creators and tropes that illuminate the motives of various robots The volume closes with a glossary of key terms and a bibliography providing students with resources to continue their study of what robots tell us about ourselves Algorithmic Democracy Domingo

García-Marzá,Patrici Calvo,2024-02-20 Based on a deliberative democracy this book uses a hermeneutic critical methodology to study bibliographical sources and practical issues in order to analyse the possibilities limits and consequences of the digital transformation of democracy Drawing on a two way democracy the aim of this book is intended as an aid for thinking through viable alternatives to the current state of democracy with regard to its ethical foundations and the moral knowledge implicit in or assumed by the way we perceive and understand democracy It is intended to stimulate reflection and discussion on the basis that by addressing what we understand as democracy we can inevitably influence the reality known as democracy Democracy s evident regression in today s world makes this all too apparent it has become a hostage to all kinds of autocracies and technopopulisms which are supported to a greater or lesser extent by the current algorithmic revolution

Collective Agency and Cooperation in Natural and Artificial Systems Catrin Misselhorn,2015-09-01 This book brings together philosophical approaches to cooperation and collective agency with research into human machine interaction and cooperation from engineering robotics computer science and AI Bringing these so far largely unrelated fields of study together leads to a better understanding of collective agency in natural and artificial systems and will help to improve the design and performance of hybrid systems involving human and artificial agents Modeling collective agency with the help of computer simulations promises also philosophical insights into the emergence of collective agency The volume consists of

four sections The first section is dedicated to the concept of agency The second section of the book turns to human machine cooperation The focus of the third section is the transition from cooperation to collective agency The last section concerns the explanatory value of social simulations of collective agency in the broader framework of cultural evolution *Robotics and Smart Autonomous Systems* Rashmi Priyadarshini,Ram Mohan Mehra,Amit Sehgal,Prabhu Jyot Singh,2024-11-25 The text discusses fundamental advanced concepts and applications of robotics and autonomous systems It further discusses important topics such as robotics techniques in the manufacturing sector applications of smart autonomous systems in the healthcare sector resource optimization in mobile robotics and smart autonomous transport systems Features Covers design and application aspects of robotic systems for implementing the concepts of smart manufacturing with reduced human intervention better accuracy and enhanced production capacity Discusses techniques including supervised learning unsupervised learning and reinforced learning with real life examples Highlights a unified intermodal approach for automated transportation including cars trucks ships and port management Explains the mechanical design of planetary rovers and the mechanical design of space manipulators actuators and sensors Presents programming tools and platforms for autonomous robotic systems The book is primarily written for senior undergraduates graduate students and academic researchers in fields including electrical engineering electronics and communications engineering computer science and engineering and automotive engineering **A Construction Manual for Robots' Ethical Systems** Robert Trappl,2015-11-26 This book will help researchers and engineers in the design of ethical systems for robots addressing the philosophical questions that arise and exploring modern applications such as assistive robots and self driving cars The contributing authors are among the leading academic and industrial researchers on this topic and the book will be of value to researchers graduate students and practitioners engaged with robot design artificial intelligence and ethics

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