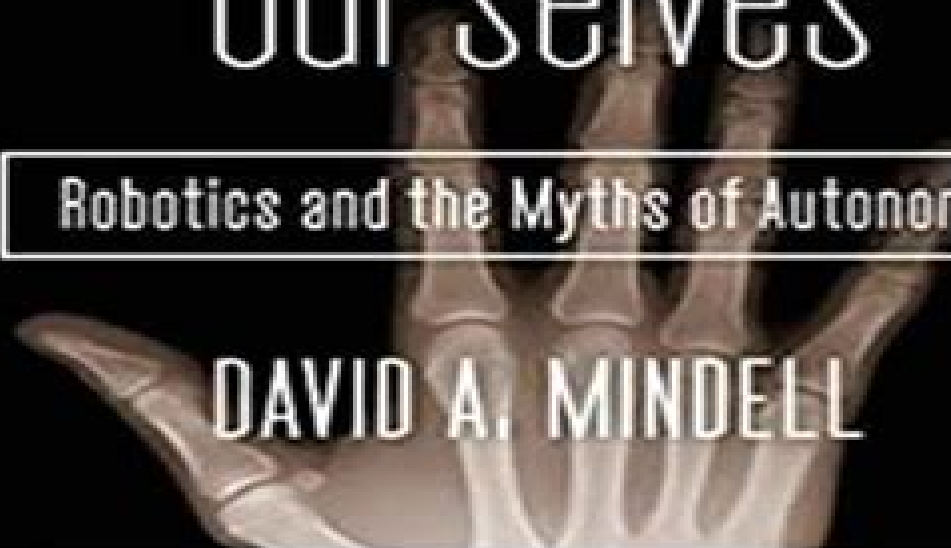




# Our Robots, Ourselves

Robotics and the Myths of Autonomy

DAVID A. MINDELL



# Our Robots Ourselves Robotics And The Myths Of Autonomy

**George A. Bekey**



## **Our Robots Ourselves Robotics And The Myths Of Autonomy:**

**Our Robots, Ourselves** David A. Mindell, 2015-10-13 An essential book it is required reading as we seriously engage one of the most important debates of our time Sherry Turkle author of *Reclaiming Conversation The Power of Talk in a Digital Age* From drones to Mars rovers an exploration of the most innovative use of robots today and a provocative argument for the crucial role of humans in our increasingly technological future In *Our Robots Ourselves* David Mindell offers a fascinating behind the scenes look at the cutting edge of robotics today debunking commonly held myths and exploring the rapidly changing relationships between humans and machines Drawing on firsthand experience extensive interviews and the latest research from MIT and elsewhere Mindell takes us to extreme environments high atmosphere deep ocean and outer space to reveal where the most advanced robotics already exist In these environments scientists use robots to discover new information about ancient civilizations to map some of the world's largest geological features and even to commute to Mars to conduct daily experiments But these tools of air sea and space also forecast the dangers ethical quandaries and unintended consequences of a future in which robotics and automation suffuse our everyday lives Mindell argues that the stark lines we've drawn between human and not human manual and automated aren't helpful for understanding our relationship with robotics Brilliantly researched and accessibly written *Our Robots Ourselves* clarifies misconceptions about the autonomous robot offering instead a hopeful message about what he calls rich human presence at the center of the technological landscape we are now creating

*The Oxford Handbook of Ethics of AI* Markus Dirk Dubber, Frank Pasquale, Sunit Das, 2020 This interdisciplinary and international handbook captures and shapes much needed reflection on normative frameworks for the production application and use of artificial intelligence in all spheres of individual commercial social and public life

**Automation Is a Myth** Luke Munn, 2022-04-05 For some automation will usher in a labor free utopia for others it signals a disastrous age to come Yet whether seen as dream or nightmare automation argues Munn is ultimately a fable that rests on a set of triple fictions There is the myth of full autonomy claiming that machines will take over production and supplant humans But far from being self acting technical solutions are piecemeal their support and maintenance reveals the immense human labor behind autonomous processes There is the myth of universal automation with technologies framed as a desituated force sweeping the globe But this fiction ignores the social cultural and geographical forces that shape technologies at a local level And there is the myth of automating everyone the generic figure of the human at the heart of automation claims But labor is socially stratified and so automation's fallout will be highly uneven falling heavier on some immigrants people of color women than others Munn moves from machine minders in China to warehouse pickers in the United States to explore the ways that new technologies do and don't reconfigure labor Combining this rich array of human stories with insights from media and cultural studies Munn points to a more nuanced localized and racialized understanding of the future of work

*Human-centered AI* Ben Shneiderman, 2022 The remarkable progress in algorithms

for machine and deep learning have opened the doors to new opportunities and some dark possibilities. However, a bright future awaits those who build on their working methods by including HCAI strategies of design and testing. As many technology companies and thought leaders have argued, the goal is not to replace people but to empower them by making design choices that give humans control over technology. In *Human Centered AI*, Professor Ben Shneiderman offers an optimistic realist's guide to how artificial intelligence can be used to augment and enhance human lives. This project bridges the gap between ethical considerations and practical realities to offer a road map for successful, reliable systems. Digital cameras, communications services, and navigation apps are just the beginning. Shneiderman shows how future applications will support health and wellness, improve education, accelerate business, and connect people in reliable, safe, and trustworthy ways that respect human values, rights, justice, and dignity.

**Designed for Death** Steven Umbrello, 2022-09-19 Autonomous weapons systems, often referred to as killer robots, have been a hallmark of popular imagination for decades. However, with the inexorable advance of artificial intelligence systems, AI and robotics, killer robots are quickly becoming a reality. These lethal technologies can learn, adapt, and potentially make life and death decisions on the battlefield with little to no human involvement. This naturally leads to not only legal but ethical concerns as to whether we can meaningfully control such machines, and if so, then how. Such concerns are made even more poignant by the ever-present fear that something may go wrong and the machine may carry out some actions violating the ethics or laws of war. Researchers, policymakers, and designers are caught in the quagmire of how to approach these highly controversial systems and to figure out what exactly it means to have meaningful human control over them, if at all. In *Designed for Death*, Dr. Steven Umbrello aims to not only produce a realistic but also an optimistic guide for how, with human values in mind, we can begin to design killer robots. Drawing on the value-sensitive design (VSD) approach to technology innovation, Umbrello argues that context is king and that a middle path for designing killer robots is possible if we consider both ethics and design as fundamentally linked. Umbrello moves beyond the binary debates of whether or not to prohibit killer robots and instead offers a more nuanced perspective of which types of killer robots may be both legally and ethically acceptable when they would be acceptable and how to design for them.

**Humans and Robots** Sven Nyholm, 2020-03-09 Can robots perform actions, make decisions, collaborate with humans, be our friends, perhaps fall in love, or potentially harm us? Even before these things truly happen, ethical and philosophical questions already arise. The reason is that we humans have a tendency to spontaneously attribute minds and agency to anything, even remotely humanlike. Moreover, some people already say that robots should be our companions and have rights. Others say that robots should be slaves. This book tackles emerging ethical issues about human beings, robots, and agency head-on. It explores the ethics of creating robots that are or appear to be decision-making agents. From military robots to self-driving cars, to care robots or even sex robots equipped with artificial intelligence, how should we interpret the apparent agency of such robots? This book argues that we need to explore how human beings can best coordinate and

collaborate with robots in responsible ways It investigates ethically important differences between human agency and robot agency to work towards an ethics of responsible human robot interaction      *Abstracts of the Annual Meeting American Anthropological Association,2007*      *Robots* Phil Husbands,2021-10-28 A concise accessible introduction to robots what they can do what they can t and what their increasing encroachment into our lives might mean for us Since the turn of the millennium a quiet revolution has been underway Millions of autonomous robots with some level of intelligence are now in domestic use mainly as vacuum cleaners Driverless cars which are nothing less than autonomous robots are starting to appear on our streets There is a huge effort underway in industry and universities to develop the next generation of more intelligent autonomous mobile robots Accompanying these arrivals has been a steady stream of inflammatory articles in the media raising concerns over the impending spectre of super intelligent robots along with stories about how most jobs will soon be lost to robots Here using the Question and Answer format Phil Husbands gives a balanced and broad introduction to robotics and the current state of the field analysing where it has come from and where it might go in the future He begins with the history of robotics and its complex relationship with popular culture and then moves on to discuss the technology underlying robots in an engaging non technical way exploring the limits of what robots can actually do now and what they might be able to do in the future Naturally these machines which often seem to display life like properties are attracting great attention Do they pose a threat or an unprecedented opportunity And although the singularity may not be something to worry about there are certainly ethical issues needing consideration as robots with some intelligence are used increasingly across many sectors Husbands considers both these ethical problems and also the wider socio political challenges that robots are already creating and the larger ones they might bring in the future      Autonomous Robots George A. Bekey,2005-05-20 An introduction to the science and practice of autonomous robots that reviews over 300 current systems and examines the underlying technology Autonomous robots are intelligent machines capable of performing tasks in the world by themselves without explicit human control Examples range from autonomous helicopters to Roomba the robot vacuum cleaner In this book George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals He surveys the hardware implementations of more than 300 current systems reviews some of their application areas and examines the underlying technology including control architectures learning manipulation grasping navigation and mapping Living systems can be considered the prototypes of autonomous systems and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics He also discusses robot control issues and the design of control architectures After an overview of the field that introduces some of its fundamental concepts the book presents background material on hardware control from both biological and engineering perspectives software architecture and robot intelligence It then examines a broad range of implementations and applications including locomotion wheeled legged flying swimming and crawling robots manipulation both arms and hands

localization navigation and mapping The many case studies and specific applications include robots built for research industry and the military among them underwater robotic vehicles walking machines with four six and eight legs and the famous humanoid robots Cog Kismet ASIMO and QRIO The book concludes with reflections on the future of robotics the potential benefits as well as the possible dangers that may arise from large numbers of increasingly intelligent and autonomous robots

**Robotics: What Beginners Need to Know about Robotic Process Automation, Mobile Robots, Artificial Intelligence, Machine Learning** Neil Wilkins, 2019-03-30 If you want to learn about robotics then keep reading Robotics is slowly creeping into our lives and soon robots will be everywhere Do you know everything there is to know about robotics Do you want to know more about robotics Do you want to discover the advantages of robotics If so then you've come to the right place In this book you will learn everything you need to know about robotics as a beginner The basics of robotics and what some of the advantages and disadvantages are Reasons that experts are trying to warn us about robots Myths about robots and the actual truth Robotic Process Automation and how it relates to robotics Mobile robots and how they have changed throughout the years Artificial Intelligence and how it can be tied to robotics Machine learning and how robots use it Autonomous vehicles and how they work How robots use speech recognition Drones what they are and how they work How robots are being used in business and how they could take your job Answers to frequently asked questions about robotics And much much more If you want to learn more about robotics then scroll up and click add to cart

**Gods and Robots** Adrienne Mayor, 2018-11-27 Traces the story of how ancient cultures envisioned artificial life automata self moving devices and human enhancements sharing insights into how the mythologies of the past related to and shaped ancient machine innovations

Governing Lethal Behavior in Autonomous Robots Ronald Arkin, 2009-05-27 Expounding on the results of the author's work with the US Army Research Office DARPA the Office of Naval Research and various defense industry contractors Governing Lethal Behavior in Autonomous Robots explores how to produce an artificial conscience in a new class of robots humane oids which are robots that can potentially perform more et

Robot Ethics Mark Coeckelbergh, 2022-09-06 A guide to the ethical questions that arise from our use of industrial robots robot companions self driving cars and other robotic devices Does a robot have moral agency Can it be held responsible for its actions Do humans owe robots anything Will robots take our jobs These are some of the ethical and moral quandaries that we should address now as robots and other intelligent devices become more widely used and more technically sophisticated In this volume in the MIT Press Essential Knowledge series philosopher Mark Coeckelbergh does just that He considers a variety of robotics technologies and applications from robotic companions to military drones and identifies the ethical implications of their use Questions of robot ethics he argues are not just about robots but crucially and importantly are about humans as well Coeckelbergh examines industrial robots and their potential to take over tasks from humans social robots and possible risks to privacy and robots in health care and their effect on quality of care He considers whether a machine can be moral or have

morality built in how we ascribe moral status and if machines should be allowed to make decisions about life and death When we discuss robot ethics from a philosophical angle Coeckelbergh argues robots can function as mirrors for reflecting on the human Robot ethics is more than applied ethics it is a way of doing philosophy

**Robot Control** Fouad Sabry,2024-12-09

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Transparency for Robots and Autonomous Systems Robert H. Wortham,2020-06-29 Based on scientific understanding and empirical evidence of how humans understand and interact with robotic and autonomous systems the author reviews the concerns that have been raised around the deployment of AI and robots in human society and the potential for disruption and harm He explains why transparency ought to be a fundamental design consideration for Human Computer Interaction HCI and artificial intelligent systems Starting with a survey of global research in the field and what transparency means in the wider context of trust control and ethics the author then introduces a transparent robot control architecture and the impact of transparency using real time displays He presents a case study of a muttering robot and covers current and upcoming standards for

transparency as well as future perspectives for the design manufacture and operation of autonomous robotic systems

**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 Creating Autonomous Machines Krysten

McSally, 2025-05-29 The definitive guide for building the future of intelligent independent machines In an age where robotics and artificial intelligence are transforming every aspect of our lives Creating Autonomous Machines delivers a groundbreaking roadmap for engineers innovators and enthusiasts alike This authoritative guide dives deep into the core technologies systems and philosophies behind creating machines that not only think but thrive on their own From energy autonomy and decision making algorithms to adaptive learning and self repair mechanisms this book equips readers with the knowledge and tools to design robots capable of operating independently without human intervention Inside you ll discover The foundational principles of autonomy in robotics Strategies for integrating AI machine learning and sensor fusion Case studies of leading edge autonomous systems in action Practical blueprints and frameworks for building your own self sustaining robots Ethical and philosophical insights into the future of human robot coexistence Whether you re a researcher developer student or tech visionary Creating Autonomous Machines is more than just a manual it s a call to pioneer the next generation of intelligent machines If you ve ever imagined a world where robots are not just tools but collaborators this is your starting point

**Just Ordinary Robots** Lamber Royakkers, Rinie van Est, 2015-08-28 A social robot is a robot that interacts and communicates with humans or other autonomous physical agents by following social behaviors and rules attached to its role We seem to accept the use of robots that perform dull dirty and dangerous jobs But how far do we want to go with the automation of care for children and the elderly or the killin **Robots** John M. Jordan, 2016-10-07 An accessible and engaging account of robots covering the current state of the field the fantasies of popular culture and implications for



life and work Robots are entering the mainstream Technologies have advanced to the point of mass commercialization Roomba for example and adoption by governments most notably their use of drones Meanwhile these devices are being received by a public whose main sources of information about robots are the fantasies of popular culture We know a lot about C 3PO and Robocop but not much about Atlas Motoman Kiva or Beam real life robots that are reinventing warfare the industrial workplace and collaboration In this book technology analyst John Jordan offers an accessible and engaging introduction to robots and robotics covering state of the art applications economic implications and cultural context Jordan chronicles the prehistory of robots and the treatment of robots in science fiction movies and television from the outsized influence of Mary Shelley s Frankenstein to Isaac Asimov s I Robot in which Asimov coined the term robotics He offers a guided tour of robotics today describing the components of robots the complicating factors that make robotics so challenging and such applications as driverless cars unmanned warfare and robots on the assembly line Roboticists draw on such technical fields as power management materials science and artificial intelligence Jordan points out however that robotics design decisions also embody such nontechnical elements as value judgments professional aspirations and ethical assumptions and raise questions that involve law belief economics education public safety and human identity Robots will be neither our slaves nor our overlords instead they are rapidly becoming our close companions working in partnership with us whether in a factory on a highway or as a prosthetic device Given these profound changes to human work and life Jordan argues that robotics is too important to be left solely to roboticists

Self-reconfigurable Robots Kasper Stoy,David Brandt,David J. Christensen,2010 A comprehensive survey of the growing field of self reconfigurable robots that discusses the history of the field design considerations and control strategies Self reconfigurable robots are constructed of robotic modules that can be connected in many different ways These modules move in relationship to each other which allows the robot as a whole to change shape This shapeshifting makes it possible for the robots to adapt and optimize their shapes for different tasks Thus a self reconfigurable robot can first assume the shape of a rolling track to cover distance quickly then the shape of a snake to explore a narrow space and finally the shape of a hexapod to carry an artifact back to the starting point The field of self reconfigurable robots has seen significant progress over the last twenty years and this book collects and synthesizes existing research previously only available in widely scattered individual papers offering an accessible guide to the latest information on self reconfigurable robots for researchers and students interested in the field Self Reconfigurable Robots focuses on conveying the intuition behind the design and control of self reconfigurable robots rather than technical details Suggestions for further reading refer readers to the underlying sources of technical information The book includes descriptions of existing robots and a brief history of the field discussion of module design considerations including module geometry connector design and computing and communication infrastructure an in depth presentation of strategies for controlling self reconfiguration and locomotion and exploration of future research challenges

Our Robots Ourselves Robotics And The Myths Of Autonomy: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Our Robots Ourselves Robotics And The Myths Of Autonomy : Colleen Hoover "It Ends with Us" This touching 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. Our Robots Ourselves Robotics And The Myths Of Autonomy : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing 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 top-selling 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 engaging 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 quiet 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 masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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