



# Autonomous Technology

**Ralph M. Becker**



## **Autonomous Technology:**

**Autonomous Technology** Langdon Winner, 1978-08-15 The truth of the matter is that our deficiency does not lie in the want of well verified facts What we lack is our bearings The contemporary experience of things technological has repeatedly confounded our vision our expectations and our capacity to make intelligent judgments Categories arguments conclusions and choices that would have been entirely obvious in earlier times are obvious no longer Patterns of perceptive thinking that were entirely reliable in the past now lead us systematically astray Many of our standard conceptions of technology reveal a disorientation that borders on dissociation from reality And as long as we lack the ability to make our situation intelligible all of the data in the world will make no difference From the Introduction

**Advances in Autonomous Navigation through Intelligent Technologies** Niharika Singh, Thipendra P. Singh, Brian Azzopardi, 2025-02-10 Navigation has become highly intelligent over the last 100 years Today we have autonomous navigation in several vehicles that is being revolutionized through computational intelligence This book Advances in Autonomous Navigation through Intelligent Technologies presents today's issues solutions and adaptation techniques for creating safe autonomous navigating vehicles with the use of advanced technologies The chapters in the book discuss autonomous navigation as a major issue in robotics and artificial intelligence The book covers a range of topics that include the architecture of autonomous navigation algorithms for robot positioning and navigation methodologies for controlling autonomous systems self learning routing protocols for autonomous unmanned aerial networks A UAN and more The book also covers the concepts and algorithms of mobile devices sensors and IoT and other related components required for autonomous navigation The book includes a survey on smart intrusion detection enabled flying ad hoc networks FANETs a decentralized communication system solely formed by unmanned aerial vehicles in healthcare Key highlights Introduces the concept of autonomous navigation to help readers understand the technology from ground up Covers the architecture including robot positioning navigation and control Provides information about the use of simulation tools and machine learning techniques for the implementation of autonomous navigation Provides in depth knowledge on the use of emerging technologies in navigation of mobile devices along with the use of ICT in autonomous navigation Discusses the present and the future of the robotics industry Presenting cutting edge research in the field of autonomous navigation this book will serve as a valuable resource for academics researchers and others interested in learning about and comprehending the many advancements in autonomous navigation

**Does Technology Drive History?** Merritt Roe Smith, Leo Marx, 1994-06-02 These thirteen essays explore a crucial historical question that has been notoriously hard to pin down To what extent and by what means does a society's technology determine its political social economic and cultural forms These thirteen essays explore a crucial historical question that has been notoriously hard to pin down To what extent and by what means does a society's technology determine its political social economic and cultural forms Karl Marx launched the modern debate on determinism with his provocative remark that the hand mill gives you

society with the feudal lord the steam mill society with the industrial capitalist and a classic article by Robert Heilbroner reprinted here renewed the debate within the context of the history of technology This book clarifies the debate and carries it forward Marx s position has become embedded in our culture in the form of constant reminders as to how our fast changing technologies will alter our lives Yet historians who have looked closely at where technologies really come from generally support the proposition that technologies are not autonomous but are social products susceptible to democratic controls The issue is crucial for democratic theory These essays tackle it head on offering a deep look at all the shadings of determinism and assessing determinist models in a wide variety of historical contexts Contributors Bruce Bimber Richard W Bulliet Robert L Heilbroner Thomas P Hughes Leo Marx Thomas J Misa Peter C Perdue Philip Scranton Merritt Roe Smith Michael L Smith John M Staudenmaier Rosalind Williams

**Insights into Autonomy and Technology in Language Teaching** Chun Lai,2023-03-08 Drawing on the literature and research findings from relevant research fields including educational technology educational psychology adult and workplace learning and language education this book gives an overview of the relationship of learner and teacher autonomy and technology in language teaching It discusses how technology both benefits and constrains autonomy and how a positive interaction between the two could be fostered It underscores a critical perspective in understanding their relationships and a holistic approach to boosting a positive reciprocal relationship between the two

**Global Perspectives on Animism and Autonomous Technologies** Ralph M. Becker, **Technology and the Overturning of Human Autonomy** Simona Chiodo,2023-04-26 This book offers an extensive historical philosophical and ethical discussion on the role of autonomous technologies and their influence on human identity By connecting those different perspectives and analysing some practical case studies it guides readers to dissect the relationship between machine and human autonomy and machine and human identity It analyses how the relationship between human and technology has been evolving in the last few centuries Last it aims at proposing an explanation on the reasons why humans have been keen on developing their own autonomy s perfect avatar

**Autonomous Vehicles for Public Transportation** Călin Iclodean,Bogdan Ovidiu Varga,Nicolae Cordoş,2022-11-26 This book presents an interdisciplinary approach to autonomous driving technology design and development It discusses a methodology of simulation that allows specialists to evaluate autonomous vehicle sensors functionality and integration energy flow efficiency range and service under public transport The design calibration and physical model behind each autonomous vehicle sensor and component is explained For each specific vehicle the powertrain is analyzed and output results are presented through the use of specific automotive industrial software IPG CarMaker The book gives the reader a clear perspective of the key factors influencing the global functionality of autonomous shuttle buses with respect to both their inner components the variable exterior factors and an exhaustive legal perspective in relation of their presence on public roads

**Autonomous Trajectory Planning and Guidance Control for Launch Vehicles** Zhengyu Song,Dangjun Zhao,Stephan Theil,2023-04-15

This open access book highlights the autonomous and intelligent flight control of future launch vehicles for improving flight autonomy to plan ascent and descent trajectories onboard and autonomously handle unexpected events or failures during the flight. Since the beginning of the twenty first century space launch activities worldwide have grown vigorously. Meanwhile commercial launches also account for the booming trend. Unfortunately the risk of space launches still exists and is gradually increasing in line with the rapidly rising launch activities and commercial rockets. In the history of space launches propulsion and control systems are the two main contributors to launch failures. With the development of information technologies the increase of the functional density of hardware products, the application of redundant or fault tolerant solutions and the improvement of the testability of avionics, the launch losses caused by control systems exhibit a downward trend and the failures induced by propulsion systems become the focus of attention. Under these failures the autonomous planning and guidance control may save the missions. This book focuses on the latest progress of relevant projects and academic studies of autonomous guidance especially on some advanced methods which can be potentially real time implemented in the future control system of launch vehicles. In Chapter 1 the prospect and technical challenges are summarized by reviewing the development of launch vehicles. Chapters 2 to 4 mainly focus on the flight in the ascent phase in which the autonomous guidance is mainly reflected in the online planning. Chapters 5 and 6 mainly discuss the powered descent guidance technologies. Finally since aerodynamic uncertainties exert a significant impact on the performance of the ascent landing guidance control systems the estimation of aerodynamic parameters which are helpful to improve flight autonomy is discussed in Chapter 7. The book serves as a valuable reference for researchers and engineers working on launch vehicles. It is also a timely source of information for graduate students interested in the subject.

*Autonomy for All* Stanley Scott Jr  
,2025-09-06 For most Americans the ability to drive is taken for granted a routine freedom exercised daily without a second thought. Yet for nearly 61 million Americans living with disabilities and 54 million seniors over 65 this fundamental aspect of independence is often compromised or entirely unavailable. According to the Ruderman Family Foundation's landmark study on autonomous vehicles and disability approximately 6 million Americans with disabilities have difficulty getting the transportation they need creating what researchers term a significant mobility gap. Claypool et al 2017. This mobility gap represents one of the most significant yet under discussed inequalities in modern society. This book proposes a revolutionary perspective: autonomous vehicles are not primarily a convenience for the able bodied but rather a transformative accessibility tool for those currently excluded from our driver centric transportation system. Self driving cars represent the potential to restore independence to millions who have lost or never had the ability to transport themselves freely.

**TRANSFORMING INDUSTRIES WITH AI: EXPLORING THE UPSIDES AND DOWNSIDES OF EMERGING TECHNOLOGY** Bechoo Lal, Mr. Ajay Jaiswal, Mohit Tiwari, Dr. Haewon Byeon, 2023-08-21 In the current day and age of technology buzzwords such as artificial intelligence AI, the internet of things IoT and cloud computing are often used. AI is the technology that tries to make

computers or other machines equal to the human brain making them capable of learning and problem solving in the same way that humans do Applications based on AI may be readily connected with other developing technologies such as the Internet of Things IoT the cloud Big Data and Blockchain The Internet of Things refers to a network of interconnected internet enabled items or things that are able to gather and share data with one another In recognition of the idea of the Internet of items a significant number of tangible items are now being connected with the internet at an exceptionally rapid pace By the year 2025 there will be more than 30 billion Internet of Things connections with approximately four Internet of Things devices per person on average according to reports and current trends Cloud computing provides a means through which the huge amounts of data created by these Internet of Things applications may be sent to their respective endpoints The use of cloud computing is widely acknowledged to be a facility for the processing and storage of data Just in time processing and lightning fast response times are necessities for any and all real time applications that make use of the Internet of Things Researchers academics and industrialists in the fields of health care agriculture telecommunications online and mobile commerce and transportation have shown a significant amount of interest in AI and IoT based data In today s world AI based methodologies increase the role that IoT plays in business monitoring health care monitoring illness prediction bioinformatics research and development stock market prediction social network analysis weather analysis agriculture transportation and resource optimization The implementation of these applications needs a certain amount of processing capability as well as data storage both of which are often given by cloud based services The data that has been saved is processed in a high precision and just in time way with the help of AI algorithms The cloud is a strong instrument that can send data not only via the standard channels of the internet but also through a dedicated direct connection The Internet of Things becomes the source of creating enormous amounts of data and the cloud becomes an essential component for data storage As a result the Internet of Things and clouds have become deeply intertwined in order to provide commercial business services 1 P a ge This configuration is sometimes referred to as cloud based IoT As a result of their success in providing cloud based Internet of Things IoT services companies like Amazon Web Services AWS Google and Microsoft have become industry leaders This makes the task much more rewarding In addition the cloud based Internet of items is utilized to link a broad variety of intelligent items for usage in different applications Artificial intelligence AI the internet of things IoT and cloud computing all play significant roles in a variety of domains in the present and will continue to do so in the future The goal of AI is to analyze and collect the data produced through cloud based Internet of Things devices by gathering data from a variety of businesses Integrating AI IoT and the cloud has resulted in a transformation of both the entire storage capacity and the digital world and as a result it has become a subject of intense interest among academics and academicians The purpose of this chapter is to place an emphasis on the function that AI plays in data storage that is based on the cloud and IoT The remaining parts of the chapter are broken down into the following sections storing of data on the cloud is the

primary emphasis examines the function that IoT plays in cloud environments In addition the part that AI plays in the Internet of Things IoT and cloud data storage is discussed in Section 6 brings the chapter to a close by discussing the applications of AI IoT and clouds in a variety of industries

**Democracy in a Technological Society** Society for Philosophy & Technology (U.S.),1992-11-30 What is the relationship between democracy and technology And what should that relationship be This book explores these questions drawing upon a wide range of philosophical historical and sociological points of view In stark contrast to technology s promise as a wellspring of equality freedom and self government its development now poses a host of problems for political society an alarming concentration of power over global production a widening gap between rich and poor multiple environmental crises trivialization of politics in the mass media decline of citizen competence in decision making and the disproportionate influence of scientific and technical elites As the writers discuss these issues they investigate new avenues for democratic politics possibilities that emerge as modernist ideas about progress justice and the common good lose their ability to guide contemporary thought and action This book will be of interest to philosophers political scientists those doing research on technology and society engineers studying human factors environmental scientists sociologists

**Autonomous Language Learning with Technology** Chun Lai,2017-06-29 This book looks beyond the classroom and focuses on out of class autonomous use of technology for language learning discussing the theoretical frameworks key findings and critical issues The proliferation of digital language learning resources and tools is forcing language education into an era of unprecedented change The book will stimulate discussions on how to support language learners to construct quality autonomous technology mediated out of class learning experience outside the classroom and raise greater awareness of and research interest in this field Out of class learning constitutes an important context for human development and active engagement in out of class activities is associated with successful language development With convenient access to expanded resources venues and learning spaces today s learners are not as dependent on in class learning as they used to be Thus a deeper understanding of the terrain of out of class learning is of increasing significance in the current educational era Technology is part and parcel of out of class language learning and has been a primary source that learners actively use to construct language learning experience beyond the classroom Language learners of all ages around the world have been found to actively utilize technological resources to support their language learning beyond formal language learning contexts Insights into learners out of class autonomous use of technology for language learning are essential to our understanding of out of class learning and inform educators on how language learners could be better supported to maximize the educational potentials of technology to construct quality out of class learning experience

*Proceedings of the Future Technologies Conference (FTC) 2023, Volume 4* Kohei Arai,2023-11-07 This book is a collection of thoroughly well researched studies presented at the Eighth Future Technologies Conference This annual conference aims to seek submissions from the wide arena of studies like Computing Communication Machine Vision Artificial

Intelligence Ambient Intelligence Security and e Learning With an impressive 490 paper submissions FTC emerged as a hybrid event of unparalleled success where visionary minds explored groundbreaking solutions to the most pressing challenges across diverse fields These groundbreaking findings open a window for vital conversation on information technologies in our community especially to foster future collaboration with one another We hope that the readers find this book interesting and inspiring and render their enthusiastic support toward it

**Autonomous Field Robotics** Johannes Lehmann,Nina Dwerlkotte,Friederike Saxe,2022-10-17 The market penetration of highly automated agricultural vehicles in crop farming and arable environments is still very low However the unsettled issues and market barriers stem from three main topics The first is the technical development and appropriate framework conditions for hardware and software required for autonomous field vehicles The second is the regulatory framework needed to facilitate investment by manufacturers and users Finally the third topic is the willingness of the user to accept the non deterministic systems that are common in agricultural practices today Autonomous Field Robotics is a joint report between SAE International and the German Institute for Standardization DIN developed to enable relevant stakeholders including users regulators researchers and manufacturers among others to discuss the barriers facing automated agricultural vehicles The report includes a cross industry and cross sector exchange on the three central aspects a prioritization of the unsettled questions to be addressed as well as a pragmatic framework to enable the use of autonomous field robotics beyond the scientific context in agricultural practice Click here to access the full SAE EDGETM Research Report portfolio <https://doi.org/10.4271/EPR2022023>

**Road Vehicle Automation 2** Gereon Meyer,Sven Beiker,2015-06-30 This paper collection is the second volume of the LNMOb series on Road Vehicle Automation The book contains a comprehensive review of current technical socio economic and legal perspectives written by experts coming from public authorities companies and universities in the U S Europe and Japan It originates from the Automated Vehicle Symposium 2014 which was jointly organized by the Association for Unmanned Vehicle Systems International AUvSI and the Transportation Research Board TRB in Burlingame CA in July 2014 The contributions discuss the challenges arising from the integration of highly automated and self driving vehicles into the transportation system with a focus on human factors and different deployment scenarios This book is an indispensable source of information for academic researchers industrial engineers and policy makers interested in the topic of road vehicle automation

**DRIVING CHANGE The Transformation of India's Automotive Sector** Chirag Vinalbhai Shah,Vishwanadham Mandala, [Autonomous Weapons Systems and the Protection of the Human Person](#) Mauri, Diego,2022-05-24 This book aims to understand how public organizations adapt to and manage situations characterized by fluidity ambiguity complexity and unclear technologies thus exploring public governance in times of turbulence

**Navigating the Technological Tide: The Evolution and Challenges of Business Model Innovation** Bahaaeddin Alareeni,Allam Hamdan,2024-08-10 In an era defined by technological breakthroughs such as AI blockchain and IoT this book



offers a fresh and practical approach to Business Model Innovation BMI It delves into how technological advancements drive new business models and enhance operational efficiency providing actionable insights and real world examples for business leaders strategists operations managers entrepreneurs and students in business and technology disciplines Encouraging diverse research methods including theoretical empirical and multimethod studies it welcomes manuscripts with clear managerial or policy implications Aimed at students scholars researchers professionals executives government agencies and policymakers this book equips readers with tools to succeed in today's dynamic business environment and supports multidisciplinary research to advance innovation management practices

**Handbook of Critical Studies of Artificial Intelligence** Simon Lindgren, 2023-11-03 As artificial intelligence AI continues to seep into more areas of society and culture critical social perspectives on its technologies are more urgent than ever before Bringing together state of the art research from experienced scholars across disciplines this Handbook provides a comprehensive overview of the current state of critical AI studies

*Catastrophic Technology in Cold War Political Thought* Caroline Ashcroft, 2024-11-30 In the mid twentieth century a certain idea of technology emerged in the work of many influential political theorists a critical catastrophic concept of technology entangled with the apocalyptic fears fuelled by two all consuming world wars and the looming nuclear threat Drawing on the work of theorists such as Hannah Arendt Jacques Ellul Martin Heidegger and Herbert Marcuse *Catastrophic Technology in Cold War Political Thought* explores the critical idea of technology as both a response to a dramatically changing world and a radical political critique of Cold War liberalism

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