

Technology And Society Building Our Sociotechnical Future Inside Technology

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Shaping the Present
Architectures of Global AI Governance
Insider and Outsider Cultures in Web3
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Green Illusions
Digital Youth, Innovation, and the
Unexpected
Perspectives on Benefit-risk Decision Making
Youth, Identity, and Digital Media
Achieving High Commitment Work
Systems
Engineering Professionalism and Ethics
Summary Report
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and values technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits in order to influence the development of technology for the better we must first understand how technology and society are inextricably bound together these writings by thinkers ranging from bruno latour to francis fukuyama help us do just that examining how people shape technology and how technology shapes people this second edition updates the original significantly offering twenty one new essays along with fifteen from the first edition the book first presents visions of the future that range from technological utopias to cautionary tales and then introduces several major sts theories it examines human and social values and how they are embedded in technological choices and explores the interesting and subtle complexities of the technology society relationship remedying a gap in earlier theorizing in the field many of the texts illustrate how race and gender are intertwined with technology finally the book offers a set of readings that focus on the sociotechnical challenges we face today treating topics that include cybersecurity geoengineering and the myth of neutral technology

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and how these may affect the future

the exploration of ways to conceptualize the shaping of the present by socio technical futures is the aim of this volume therefore it brings together contributions from science and technology studies and technology assessment which focus all on the question how socio technical images of the future shape present processes of innovation and transformation starting from empirical case studies and generalizing specific findings or by tackling conceptual questions from the outset a white paper of 23 authors which aims to sensitize researchers and practitioners completes the volume

the impacts of artificial intelligence ai are often framed as an uncontrollable wave of technological change but ai s trajectory is not preordained its governance is a human choice one that hinges on global institutions that are effective coherent and resilient to ai s own disruptions as ai systems grow more powerful states and international institutions today face mounting pressure to address their impacts how can they govern this changing technology in a rapidly changing world using tools that may themselves be altered by ai architectures of global ai governance provides the conceptual and practical tools to tackle this question drawing from technology law global governance scholarship and history the book maps ai s growing global stakes traces the trajectory of the global ai regime complex and sets the scaffolding for new institutions the book argues that in crafting a global ai governance architecture we must reckon with three facets of change sociotechnical changes in ai systems uses and impacts ai driven changes in the fabric of international law and political changes in the global ai regime complex many ai governance approaches will be too static unless they adapt to these forces in response architectures of global ai governance equips researchers and policymakers with insights and actionable recommendations for questions of regulatory approach instrument choice and regime design more than just an inquiry into how to govern ai this book explores the changing face of global cooperation in the intelligence era and how we can safeguard human choice over a future of transformative technological change this is an open access title available under the terms of a cc by nc nd 4 0 international licence it is free to read on oxford scholarship online and offered as a free pdf download from oup and selected open access locations

alexia maddox provides a critical sociological study of insider outsider tensions that influence the adoption of blockchain technologies and impact the web3 ecosystem the tensions between the web3 community the platforms and the users

contemporary media ecosystems are deeply entangled with algorithms which play an increasingly pervasive role in shaping our environment and mediating our perception of reality this book aims to provide a critical map of a rapidly evolving mediascape in which humans machines and data negotiate forms of agency cultural imaginaries and scopic regimes in particular the volume addresses the multiple challenges posed by algorithmic media within the domain of visual culture and identifies a paradigmatic shift in the age of artificial intelligence images are no longer merely captured or represented they are synthesized inferred and predicted by probabilistic models as active agents shaping creativity and meaning making ai systems carry far reaching epistemological aesthetic and political implications they open new possibilities for content accessibility and participatory engagement yet they also encode existing asymmetries trained on massive datasets machine learning models often reproduce structural biases amplify cultural and social exclusions and perpetuate inequalities at the same time algorithmic systems are being subverted and reappropriated by artists and curators transforming them into sites of resistance and experimentation for imagining alternative futures bringing together perspectives from computer science semiotics philosophy critical theory aesthetics art theory visual culture and film and media studies this book sets out an interdisciplinary exploration to make key concepts such as algorithm latent space neural networks generative models and nfts accessible to a humanities audience while providing a set of critical tools to interrogate both the ruptures and continuities that define this ongoing transformation the contributions span a wide array of topics from machine vision and facial recognition to social robots from computational art analysis to generative ai distributed authorship and curatorial practices from biometric surveillance and predictive modeling to the politics of datasets and decolonial critique from virtual and augmented reality to posthuman imagery digital afterlives and ai mediated memory compelling us to revisit foundational categories in media studies this book offers an analytical framework to open a debate that is not merely about technology s impact but about how algorithms have become the media themselves veritable algomedia

a free ebook version of this title is available through luminos university of california press s open access publishing program visit luminosoa.org to learn more what if we could start over and build the internet from scratch how could it be rebuilt or reimaged as more equitable and just for more than eight years britt s paris investigated alternative internet infrastructure projects conducting interviews site visits and policy analysis in this expansive and interdisciplinary study paris critically examines the myriad and contradictory promises utility and obstacles to building a completely new internet radical infrastructure locates and analyzes the

boundaries of how people and groups imagine build deploy maintain and use the internet as they survive and even dare to thrive in challenging political economic and environmental contexts ultimately paris encourages active reflection among scholars policymakers and activists and reveals more grounded imaginaries tactics and opportunities for future people centered projects

securing sustainable food for everyone is one of the world s most pressing challenges but research policy and programmes remain fragmented and effective solutions have been slow to emerge this book takes on these challenges by proposing a range of solutions that can advance pathways towards sustainable food futures complete with recipes this book is structured so that readers are taken in a logical progression through discussions of solutions highlighting the need to recognise the importance of place and the importance of participation and to challenge dominant descriptions of markets through to re designing food systems the solutions presented in this book are based on real world cases but discussions remain deliberately broad to encourage thinking in new ways cases are drawn from africa asia europe and north and south america the book is of relevance to those interested in sustainable food futures and can serve as a supplementary textbook for a wide range of courses in food studies and related disciplines

discover how developments in information technology are raising new ethical debates information and computer ethics has emerged as an important area of philosophical and social theorizing combining conceptual meta ethical normative and applied elements as a result academic interest in this area has increased dramatically particularly in computer science philosophy and communications departments business schools information and library schools and law schools the handbook of information and computer ethics responds to this growing interest with twenty seven chapters that address both traditional and current issues in information and computer ethics research it is organized into six parts foundational issues and methodological frameworks theoretical issues affecting property privacy anonymity and security professional issues and the information related professions responsibility issues and risk assessment regulatory issues and challenges access and equity issues each chapter written by one or more of the most influential ethicists in their fields of expertise explains and evaluates the central positions and arguments on the respective issues chapters end with a bibliography that identifies the most important supplementary books and papers available on the topic this handbook provides an accessible yet sophisticated overview of the most important issues we face in information and computer ethics today it is an ideal supplemental text for advanced undergraduate and graduate level courses in information and computer ethics and is also of interest to readers who are involved in library science computer science or philosophy

sociotechnical principles are now widely used around the world in both information systems and organizational design first established in the 1940s to examine the effect of mechanized mass production systems on workers they are now an important tool for ensuring that people and technology work together optimally within an organization this book examines the use of sociotechnical principles and practice in information systems and organizational design modern sociotechnical approaches are analyzed and future directions for the field are presented

climate change is a lived experience of changes in the environment often destroying conventional forms of subsistence and production creating new patterns of movement and connection and transforming people's imagined future this book explores how people across the world think about environmental change and how they act upon the perception of past present and future opportunities drawing on the ethnographic fieldwork of expert authors it sheds new light on the human experience of and social response to climate change by taking us from the arctic to the pacific from the southeast indian coastal zone to the west african dry lands and deserts as well as to peruvian mountain communities and cities divided into four thematic parts water landscape technology time this book uses rich photographic material to accompany the short texts and reflections in order to bring to life the human ingenuity and social responsibility of people in the face of new uncertainties in an era of melting glaciers drying lands and rising seas it shows how it is part and parcel of human life to take responsibility for the social community and take creative action on the basis of a localized understanding of the environment this highly original contribution to the anthropological study of climate change is a must read for all those wanting to understand better what climate change means on the ground and interested in a sustainable future for the earth

we don't have an energy crisis we have a consumption crisis and this book which takes aim at cherished assumptions regarding energy offers refreshingly straight talk about what's wrong with the way we think and talk about the problem though we generally believe we can solve environmental problems with more energy more solar cells wind turbines and biofuels alternative technologies come with their own side effects and limitations how for instance do solar cells cause harm why can't engineers solve wind power's biggest obstacle why won't contraception solve the problem of overpopulation lying at the heart of our concerns about energy and what will this practical environmentally informed and lucid book persuasively argue for a change of perspective if consumption is the problem as ozzie zehner suggests then we need to shift our focus from suspect alternative energies to improving social and

political fundamentals walkable communities improved consumption enlightened governance and most notably women's rights the dozens of first steps he offers are surprisingly straightforward for instance he introduces a simple sticker that promises a greater impact than all of the nation's solar cells he uncovers why carbon taxes won't solve our energy challenges and presents two taxes that could finally he explores how future environmentalists will focus on similarly fresh alternatives that are affordable clean and can actually improve our well being watch a book trailer

how emergent practices and developments in young people's digital media can result in technological innovation or lead to unintended learning experiences and unanticipated social encounters young people's use of digital media may result in various innovations and unexpected outcomes from the use of videogame technologies to create films to the effect of home digital media on family life this volume examines the core issues that arise when digital media use results in unintended learning experiences and unanticipated social encounters the contributors examine the complex mix of emergent practices and developments online and elsewhere that empower young users to function as drivers of technological change recognizing that these new technologies are embedded in larger social systems school family friends the chapters consider such topics as un equal access across economic racial and ethnic lines media panics and social anxieties policy and internet protocols media literacy citizenship vs consumption creativity and collaboration digital media and gender equity shifting notions of temporality and defining the public private divide contributors steve anderson anne balsamo justine cassell meg cramer robert a heverly paula k hooper sonia livingstone henry lowood robert samuels christian sandvig ellen seiter sarita yardi

the contributors explore how young people use digital media to share ideas and creativity and to participate in networks that are small and large local and global intimate and anonymous they look at the emergence of new genres and forms from sms and instant messaging to home pages blogs and social networking sites they discuss such topics as girl power online the generational digital divide young people and mobile communication and the appeal of the digital publics of myspace considering whether these media offer young people genuinely new forms of engagement interaction and communication book jacket

a balanced thought provoking series of selected readings on professionalism and ethics in engineering addresses such topics as the concept of professionalism education and maintenance of competence registration the role of professional and technical societies

professional autonomy engineers responsibilities for the social effects of engineering practice whistle blowing and the formulation and enforcement of codes of ethics includes case studies of the ethical dilemmas faced in engineering practice compilations of major codes of engineering ethics and references for further reading

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