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## File Type PDF Speculative Futures And Emerging Practices

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#### ARTIFICIAL INTELLIGENCE AND INCLUSIVE EDUCATION

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#### SPECULATIVE FUTURES AND EMERGING PRACTICES

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Springer This book brings together the fields of artificial intelligence (often known as A.I.) and inclusive education in order to speculate on the future of teaching and learning in increasingly diverse social, cultural, emotional, and linguistic educational contexts. This book addresses a pressing need to understand how future educational practices can promote equity and equality, while at the same time adopting A.I. systems that are oriented towards automation, standardisation and efficiency. The contributions in this edited volume appeal to scholars and students with an interest in forming a critical understanding of the development of A.I. for education, as well as an interest in how the processes of inclusive education might be shaped by future technologies. Grounded in theoretical engagement, establishing key challenges for future practice, and outlining the latest research, this book offers a comprehensive overview of the complex issues arising from the convergence of A.I. technologies and the necessity of developing inclusive teaching and learning. To date, there has been little in the way of direct association between research and practice in these domains: A.I. has been a predominantly technical field of research and development, and while intelligent computer systems and 'smart' software are being increasingly applied in many areas of industry, economics, social life, and education itself, a specific engagement with the agenda of inclusion appears lacking. Although such technology offers exciting possibilities for education, including software that is designed to 'personalise' learning or adapt to learner behaviours, these developments are accompanied by growing concerns about the in-built biases involved in machine learning techniques driven by 'big data'.

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#### THE ETHICS OF ARTIFICIAL INTELLIGENCE IN EDUCATION

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#### PRACTICES, CHALLENGES, AND DEBATES

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Taylor & Francis The Ethics of Artificial Intelligence in Education identifies and confronts key ethical issues generated over years of AI research, development, and deployment in learning contexts. Adaptive, automated, and data-driven education systems are increasingly being implemented in universities, schools, and corporate training worldwide, but the ethical consequences of engaging with these technologies remain unexplored. Featuring expert perspectives from inside and outside the AIED scholarly community, this book provides AI researchers, learning scientists, educational technologists, and others with questions, frameworks, guidelines, policies, and regulations to ensure the positive impact of artificial intelligence in learning.

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#### KNOWLEDGE SOCIALISM

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#### THE RISE OF PEER PRODUCTION: COLLEGIALLY, COLLABORATION, AND COLLECTIVE INTELLIGENCE

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Springer Nature This is the first collection focusing on knowledge socialism, a particularly apt term used to describe a Chinese socialist mode of production and socialist approach to development and modernity based around the rise of peer production, new forms of collaboration and collective intelligence. Making the case for knowledge socialism, the book is intended for students, teacher, scholars and policy theorists in the field of knowledge economy.

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#### ROBOT-ASSISTED LEARNING AND EDUCATION

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#### MANAGING SOCIAL ROBOTICS AND SOCIO-CULTURAL BUSINESS NORMS

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#### PARALLEL WORLDS OF EMERGING AI AND HUMAN VIRTUES

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Springer Nature This book explores the co-existence of humans and AI in business contexts. Though AI and social robots have become ubiquitous, there are still many challenges facing technological expansion, including a true understanding of abstract concepts, transfer of knowledge to novel application problems, transparency and security guarantees, and distinguishing between random and logically meaningful relationships. While machines are valuable tools, only humans are capable of recognizing values which are the key to ethics and socio-cultural norms. Further, human virtues such as emotional intelligence, wisdom, and courage are required for decision making in many (private and professional) situations where machines would lead to sub-optimal and/or ethically questionable business outcomes. This book discusses how digital technology has emerged as a critical support system for organizations during the COVID-19 pandemic and how it can be used to complement human qualities that machines lack. It is divided into three sections that examine the complex world of AI and social robotics, digital technology and social media roles in business, and human actions that are embedded within socio-cultural business norms, such as international negotiations, that are not yet replaceable by AI. For researchers interested in understanding these parallel worlds, this book assesses how can continue to not only coexist but mutually benefit the business ecosystem.

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#### POSTDIGITAL HUMANS

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#### TRANSITIONS, TRANSFORMATIONS AND TRANSCENDENCE

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Springer Nature This book explores approaches to developing and using postdigital humans and the impact they are having on a postdigital world. It presents current research and practices at a time when education is changing rapidly with digital, technological advances. In particular, it outlines the major challenges faced by today's employers, developers, teachers, researchers, priests and philosophers. The book examines conceptions of postdigital humans and studies the issue in connection with ethics and employment, as well as from perspectives such as philosophy and religion.

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#### ARTIFICIAL INTELLIGENCE IN HIGHWAY SAFETY

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CRC Press Artificial Intelligence in Highway Safety provides cutting-edge advances in highway safety using AI. The author is a highway safety expert. He pursues highway safety within its contexts, while drawing attention to the predictive powers of AI techniques in solving complex problems for safety improvement. This book provides both theoretical and practical aspects of highway safety. Each chapter contains theory and its contexts in plain language with several real-life examples. It is suitable for anyone interested in highway safety and AI and it provides an illuminating and accessible introduction to this fast-growing research trend. Material supplementing the book can be found at [https://github.com/subasish/AI\\_in\\_HighwaySafety](https://github.com/subasish/AI_in_HighwaySafety). It offers a variety of supplemental materials,

including data sets and R codes.

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### THE PALGRAVE HANDBOOK ON CRITICAL THEORIES OF EDUCATION

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Springer Nature This handbook brings together a range of global perspectives in the field of critical studies in education to illuminate multiple ways of knowing, learning, and teaching for social wellbeing, justice, and sustainability. The handbook covers areas such as critical thought systems of education, critical race (and racialization) theories of education, critical international/global citizenship education, and critical studies in education and literacy studies. In each section, the chapter authors illuminate the current state of the field and probe more inclusive ways to achieve multicentric knowledge and learning possibilities.

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### BIOINFORMATIONAL PHILOSOPHY AND POSTDIGITAL KNOWLEDGE ECOLOGIES

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Springer Nature

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### PEDAGOGICAL RESPONSIVENESS IN COMPLEX CONTEXTS

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### ISSUES OF TRANSFORMATION, INCLUSION AND EQUITY

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Springer Nature This book reflects a range of pedagogical responses to increasingly complex educational contexts. It finds this complexity in the interplay of a number of factors, including the diverse histories and identities of educational actors; institutional and systemic demands and constraints; competing conceptions of valued knowledge; and technological change. The chapters show the demand for pedagogical response to unexpected and unprecedented events (like COVID-19) and the importance of addressing barriers to access that become sedimented into institutional cultures. The authors, mostly from Global South contexts, are concerned with enabling educational access and inclusion in the face of competing global and local demands. They present new knowledge about pedagogical approaches that are relevant and effective in uncertain times and challenging places. Together, the contributors offer accounts of hope-full and innovative practice and conceptually rigorous engagement with fundamental issues of learning and teaching.

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### MEDIATED IDENTITIES IN THE FUTURES OF PLACE: EMERGING PRACTICES AND SPATIAL CULTURES

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Springer Nature This book examines the emerging problems and opportunities that are posed by media innovations, spatial typologies, and cultural trends in (re)shaping identities within the fast-changing milieus of the early 21st Century. Addressing a range of social and spatial scales and using a phenomenological frame of reference, the book draws on the works of Heidegger, Merleau-Ponty and Don Ihde to bridge the seemingly disparate, yet related theoretical perspectives across a number of disciplines. Various perspectives are put forward from media, human geography, cultural studies, technologies, urban design and architecture etc. and looked at thematically from networked culture and digital interface (and other) perspectives. The book probes the ways in which new digital media trends affect how and what we communicate, and how they drive and reshape our everyday practices. This mediatization of space, with fast evolving communication platforms and applications of digital representations, offers challenges to our notions of space, identity and culture and the book explores the diverse yet connected levels of technology and people interaction.

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### EMERGING TECHNOLOGIES / LIFE AT THE EDGE OF THE FUTURE

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Taylor & Francis Emerging Technologies / Life at the Edge of the Future invites us to think forward from our present moment of planetary, public and everyday crisis, through the prism of emerging technologies. It calls for a new ethical, responsible and equitable path towards possible futures, curated through in-depth engagement with and across experiential, environmental and technological possibilities. It tackles three of the most significant challenges for contemporary society by asking: how emerging technologies are implicated in the sites of everyday lives; what place emerging technologies have in an evolving world in crisis; and how we might better imagine and shape ethical, equitable and responsible futures. The book interweaves three narratives, each of which advances three sets of concerns for our societal futures: 'Emergence', which addresses futures, trust and hope; 'Worlds', which addresses data, air and energy; and 'Technologies', which addresses the future of mobilities, homes and work. Not simply a critical study of emerging technologies, this book is also an approach to thinking and practice in times of global crisis that plays out a mode of future-focused scholarship and action for the first half of the twenty-first century.

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### ETHICAL ASSESSMENTS OF EMERGING TECHNOLOGIES

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### APPRAISING THE MORAL PLAUSIBILITY OF TECHNOLOGICAL VISIONS

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Springer This book systematically addresses the issue of assessing the normative nature of visions of emerging technologies in an epistemologically robust way. In the context of democratic governance of emerging technologies, not only it is important to reflect on technologies' moral significance, but also to address their emerging and future oriented character. The book proposes an original approach to deal with the issue of "plausible" ethical evaluation of new technologies. Taking its start from current debates about Technology Assessment, the proposed solution emerges as a combination of theoretical and methodological insights from the fields of Philosophy of Technology, Science and Technology Studies and a normative justification based on pragmatist ethics. The book's main contribution is to engage a diverse and interdisciplinary audience (ethicists, philosophers, social scientists, technology assessment researchers and practitioners) in a reflection concerning the epistemological challenges that are associated to the endeavour of appraising the moral significance of emerging technologies in the attempt of democratically governing them. It brings together concepts and methodologies from different disciplines and shows their synergy in applying them to two specific case studies of emerging biomedical technologies.

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### SPECULATIVE EVERYTHING

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### DESIGN, FICTION, AND SOCIAL DREAMING

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MIT Press How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In Speculative Everything, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose "what if" questions that are intended to open debate and discussion about the kind of future people want (and do not want). Speculative Everything offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

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### SPECULATIVE FUTURES

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### DESIGN APPROACHES TO NAVIGATE CHANGE, FOSTER RESILIENCE, AND CO-CREATE THE CITIES WE NEED

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North Atlantic Books How the emerging field of speculative futures can help us dream--and build--better, sustainable, and more equitable cities for everyone. Speculative futures--design approaches that help us visualize new and potential worlds--move us beyond what currently exists into what could one day be. Inspired by art, film, fiction, and industrial design, they use speculation to provoke, imagine, and dream into what lies ahead. Written for futurists, urbanists, and artists looking to enact city-wide transformation--and for

readers at the intersection of disruption, design, innovation, and city living--this book offers creative paths toward urban resilience, using design tools that already exist. Artist and urbanist Johanna Hoffman uses an interdisciplinary lens informed by her experience in architecture, art, engineering, and construction to examine how we can reimagine our cities at every level: as individuals, in community, and on a professional scale. Hoffman blends precedent studies, compelling research, and professional memoir, connecting urban development issues with the processes and actions best positioned to create better solutions for our cities. The result is a dynamic field guide that uses speculative futures to imagine, advocate for, and adapt to modern scales, scopes, and speeds of change. While this book is of great utility to professionals in the urban design and planning industries, it's also for people who resist received, capitalistic, technocratic ways of thinking--readers who seek new solutions to old problems with anti-colonial, living-systems-oriented lenses.

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## DIGITAL AFTERLIFE

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### DEATH MATTERS IN A DIGITAL AGE

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CRC Press Despite the range of studies into grief and mourning in relation to the digital, research to date largely focuses on the cultural practices and meanings that are played out in and through digital environments. Digital Afterlife brings together experts from diverse fields who share an interest in Digital Afterlife and the wide-ranging issues that relate to this. The book covers a variety of matters that have been neglected in other research texts, for example: The legal, ethical, and philosophical conundrums of Digital Afterlife The ways digital media are currently being used to expand the possibilities of commemorating the dead and managing the grief of those left behind Our lives are shaped by and shape the creation of our Digital Afterlife as the digital has become a taken for granted aspect of human experience. This book will be of interest to undergraduates from computing, theology, business studies, philosophy, psychology, sociology, and education from all types of institutions. Secondary audiences include researchers and postgraduate researchers with an interest in the digital. At a practical level, the cost of data storage and changing data storage systems mitigate the likelihood of our digital presence existing in perpetuity. Whether we create accidental or intentional digital memories, this has psychological consequences for ourselves and for society. Essentially, the foreverness of forever is in question. Maggi Savin-Baden is Professor of Higher Education Research at the University of Worcester. She has a strong publication record of over 50 research publications and 17 books. Victoria Mason-Robbie is a Chartered Psychologist and an experienced lecturer having worked in the Higher Education sector for over 15 years. Her current research focuses on evaluating web-based avatars, pedagogical agents, and virtual humans.

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## EMERGING PRACTICES IN ARCHITECTURAL PEDAGOGY

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### ACCOMMODATING AN UNCERTAIN FUTURE

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Routledge Emerging Practices in Architectural Pedagogy explores the emergent techniques in architectural education that are helping to bridge the gap between the institutional setting and working practice. It demonstrates how teaching and learning can, and should, be directed towards tackling the real-world problems that students will encounter within their professional careers. Architectural and design practitioners are becoming less specialised, they are embracing cross-disciplinary connections and practical problem-solving. Architecture and design schools must align their teaching to reflect this changing world, and evolve from a fact-based acquisition process to a participatory method of learning. This book uses an extended case-study format to examine large-scale issues. Each chapter represents a specific mode of practice, which is linked to the wider debate on architectural and design pedagogy; this includes collaborative workshops and interventions, issues connected to sustainability and climate change, responses to rapid urbanisation, and, the creation of collaborative relationships across disciplines. The book has an international perspective, with contributions from the United Kingdom, United States of America, and Singapore, and includes a timely discussion on teaching in a remote climate. This book will be an invaluable resource for engaged academics and teaching practitioners interested in playing a key role in the future development of the architectural profession.

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## ARCHAEOLOGIES OF THE HEART

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Springer Nature Archaeological practice is currently shifting in response to feminist, indigenous, activist, community-based, and anarchic critiques of how archaeology is practiced and how science is used to interpret the past lives of people. Inspired by the calls for a different way of doing archaeology, this volume presents a case here for a heart-centered archaeological practice. Heart-centered practice emerged in care-based disciplines, such as nursing and various forms of therapy, as a way to recognize the importance of caring for those on whom we work, and as an avenue to explore how our interactions with others impacts our own emotions and heart. Archaeologists are disciplined to separate mind and heart, a division which harkens back to the origins of western thought. The dualism between the mental and the physical is fundamental to the concept that humans can objectively study the world without being immersed in it. Scientific approaches to understanding the world assume there is an objective world to be studied and that humans must remove themselves from that world in order to find the truth. An archaeology of the heart rejects this dualism; rather, we see mind, body, heart, and spirit as inextricable. An archaeology of the heart provides a new space for thinking through an integrated, responsible, and grounded archaeology, where there is care for the living and the dead, acknowledges the need to build responsible relationships with communities, and with the archaeological record, and emphasize the role of rigor in how work and research is conducted. The contributions bring together archaeological practitioners from across the globe in different contexts to explore how heart-centered practice can impact archaeological theory, methodology, and research throughout the discipline.

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## POSTDIGITAL DIALOGUES ON CRITICAL PEDAGOGY, LIBERATION THEOLOGY AND INFORMATION TECHNOLOGY

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Bloomsbury Publishing Postdigital Dialogues on Critical Pedagogy, Liberation Theology and Information Technology presents a series of dialogues between Peter McLaren, a founding figure of critical pedagogy, and Petar Jandric, a transdisciplinary scholar working at the intersections between critical pedagogy and information technology. The authors debate the postdigital condition, its wide social impacts, and its relationship to critical pedagogy and liberation theology, as part of a transdisciplinary effort to develop a new postdigital revolutionary consciousness in the service of humanity. Throughout the dialogues we see how McLaren's thinking on critical pedagogy and liberation theology have developed since the publication of Pedagogy of Insurrection, and how these developments play out in Jandric's theory of the postdigital condition. The book includes a foreword by Peter Hudis and an afterword by Michael A. Peters.

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## INTERNATIONAL HANDBOOK ON RESPONSIBLE INNOVATION

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### A GLOBAL RESOURCE

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Edward Elgar Publishing The Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes. This book brings together well-known authors from the US, Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine, to nanotechnology and robotics. The emphasis is on the socio-economic and normative dimensions of innovation including issues of social risk and sustainability.

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## DRAWING FUTURES

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### SPECULATIONS IN CONTEMPORARY DRAWING FOR ART AND ARCHITECTURE

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UCL Press Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture. Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie. Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

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## HACKING VOICE ASSISTANTS

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### SPECULATIVE DESIGN AS RESISTANCE IN THE AGE OF SURVEILLANCE CAPITALISM

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Surveillance is now ubiquitous. It is used to refer to a set of technologies, a mode of governance, socio-cultural practices, and also, a way of being in the world. This thesis examines surveillance in the context of voice assistants such as Alexa, Google Assistant, and Siri. It investigates the sociotechnical implications of voice surveillance on everyday lived realities. Through the widespread adoption of “smart” technologies, surveillance technologies and its related cultural practices have become normalized. Users consent to, participate in, engage with, navigate, and resist surveillance on a daily basis. Emerging technologies have enabled new modalities of surveillance; from tracking web movement to monitoring physical location to extracting new forms of biometric data. Further, A.I. technologies have turned surveillance into a leaky and fluid exchange of information between governments, corporations, and third parties while giving little visibility to their users. This in/visibility discourse drives and reinforces the power dynamics between the surveillant and the surveilled. My work aims to invert this power hierarchy by empowering makers with the tools for hacking surveillance. HackIT is a low to high tech civic privacy hardware kit for the redesigning, hacking, and reclaiming of the Amazon Echo, Google Home, and Apple Siri. The voice devices are fitted with 3D printed “wearables” and a sound-generating circuit that obfuscate and confuse speech recognition algorithms. These visual oddities and audio glitches aim to subvert voice surveillance by turning it into a site of hypervisibility. Using speculative design as a form of civic resistance, we make hyper-visible and audible often-discreet voice surveillance operations. Beyond invention, HackIT is an intervention towards new speculative futures for our relationships with emerging technologies, privacy, and surveillance. It puts an exclamation mark on surveillance and questions the hegemony of surveillance capitalism and its extraction and exploitation of human experiences. Ultimately, it is a mirror for critical reflexivity on normalized surveillance technologies and cultural practices in order to critically-make/create/invent humanity-centered technologies and futures.

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### IMAGINED FUTURES IN SCIENCE, TECHNOLOGY AND SOCIETY

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Taylor & Francis Imagining, forecasting and predicting the future is an inextricable and increasingly important part of the present. States, organizations and individuals almost continuously have to make decisions about future actions, financial investments or technological innovation, without much knowledge of what will exactly happen in the future. Science and technology play a crucial role in this collective attempt to make sense of the future. Technological developments such as nanotechnology, robotics or solar energy largely shape how we dream and think about the future, while economic forecasts, gene tests or climate change projections help us to make images of what may possibly occur in the future. This book provides one of the first interdisciplinary assessments of how scientific and technological imaginations matter in the formation of human, ecological and societal futures. Rooted in different disciplines such as sociology, philosophy, and science and technology studies, it explores how various actors such as scientists, companies or states imagine the future to be and act upon that imagination. Bringing together case studies from different regions around the globe, including the electrification of German car infrastructure, or genetically modified crops in India, Imagined Futures in Science, Technology and Society shows how science and technology create novel forms of imagination, thereby opening horizons toward alternative futures. By developing central aspects of the current debate on how scientific imagination and future-making interact, this timely volume provides a fresh look at the complex interrelationships between science, technology and society. This book will be of interest to postgraduate students interested in Science and Technology Studies, History and Philosophy of Science, Sociology, Cultural Studies, Anthropology, Political Sciences, Future Studies and Literary Sciences.

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### CULTURAL HERITAGE AND THE FUTURE

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Routledge Cultural Heritage and the Future brings together an international group of scholars and experts to consider the relationship between cultural heritage and the future. Drawing on case studies from around the world, the contributing authors insist that cultural heritage and the future are intimately linked and that the development of futures thinking should be a priority for academics, students and those working in the wider professional heritage sector. Until recently, the future has never attracted substantial research and debate within heritage studies and heritage management, and this book addresses this gap by offering a balance of theoretical and empirical content that will stimulate multidisciplinary debate in the burgeoning field of critical heritage studies. Cultural Heritage and the Future questions the role of heritage in future making and will be of great relevance to academics and students working in the fields of museum and heritage studies, archaeology, anthropology, architecture, conservation studies, sociology, history and geography. Those working in the heritage professions will also find much to interest them within the pages of this book.

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### ANTHROPOLOGIES AND FUTURES

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#### RESEARCHING EMERGING AND UNCERTAIN WORLDS

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Taylor & Francis Anthropology has a critical, practical role to play in contemporary debates about futures. This game-changing new book presents new ways of conceptualising how to engage with a future-oriented research agenda, demonstrating how anthropologists can approach futures both theoretically and practically, and introducing a set of innovative research methods to tackle this field of research. Anthropology and Futures brings together a group of leading scholars from across the world, including Sarah Pink, Rayna Rapp, Faye Ginsburg and Paul Stoller. Firmly grounded in ethnographic fieldwork experience, the book's fifteen chapters traverse ethnographies with people living with HIV/AIDS in Uganda, disability activists in the U.S., young Muslim women in Copenhagen, refugees in Milan, future-makers in Barcelona, planning and land futures in the UK, the design of workspaces in Melbourne, rewilding in the French Pyrenees, and speculative ethnographies among emerging communities in Antarctica. Taking a strong interdisciplinary approach, the authors respond to growing interest in the topic of futures in anthropology and beyond. This ground-breaking text is a call for more engaged, interventional and applied anthropologies. It is essential reading for students and researchers in anthropology, sociology, cultural studies, design and research methods.

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### PEDAGOGIES FOR THE POST-ANTHROPOCENE

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#### LESSONS FROM APOCALYPSE, REVOLUTION & UTOPIA

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Springer Nature This book draws on posthumanist critique and post qualitative approaches to research to examine the pedagogies offered by imaginaries of the future. Starting with the question of how education can be a process for imagining and desiring better futures that can shorten the Anthropocene, it speaks to concerns that are relevant to the fields of education, youth and futures studies. This book explores lessons from the imaginaries of apocalypse, revolution and utopia, drawing on research from youth(ful) perspectives in a context when the narrative of 'youth despair' about the future is becoming persistent. It investigates how the imaginary of 'Apocalypse' acts as a frame of intelligibility, a way of making sense of the monstrosities of the present and also instigates desires to act in different ways. Studying the School Climate Strikes of 2019 as 'Revolution' moves us away from the teleologies of capitalist consumption and endless growth to newer aesthetics. The strikes function as a public pedagogy that creates new publics that include life beyond the human. Finally, the book explores how the Utopias of Afrofuturist fiction provides us with a kind of 'investable' utopia because the starting point is in racial, economic and ecological injustice. If the Apocalypse teaches us to recognize what needs to go, and Revolution accepts that living with 'less than' is necessary, then this kind of Utopia shows us how becoming 'more than' human may be the future.

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### ROUTLEDGE HANDBOOK OF DIGITAL MEDIA AND COMMUNICATION

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Routledge What are we to make of our digital social lives and the forces that shape it? Should we feel fortunate to experience such networked connectivity? Are we privileged to have access to unimaginable amounts of information? Is it easier to work in a digital global economy? Or is our privacy and freedom under threat from digital surveillance? Our security and welfare being put at risk? Our politics undermined by hidden algorithms and misinformation? Written by a distinguished group of leading scholars from around the world, the Routledge Handbook of Digital Media and Communication provides a comprehensive, unique, and multidisciplinary exploration of this rapidly growing and vibrant field of study. The Handbook adopts a three-part structural framework for understanding the sociocultural impact of digital media: the artifacts or physical devices and systems that people use to communicate; the communicative practices in which they engage to use those devices, express themselves, and share meaning; and the organizational and institutional arrangements, structures, or formations that develop around those practices and artifacts. Comprising a series of essay-chapters on a wide range of topics, this volume crystallizes current knowledge, provides historical context, and critically articulates the challenges and implications of the emerging dominance of the network and normalization of digitally mediated relations. Issues explored include the power of algorithms, digital currency, gaming culture, surveillance, social networking, and connective mobilization.

More than a reference work, this Handbook delivers a comprehensive, authoritative overview of the state of new media scholarship and its most important future directions that will shape and animate current debates.

### **HUMAN SYSTEMS ENGINEERING AND DESIGN III**

#### **PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON HUMAN SYSTEMS ENGINEERING AND DESIGN (IHSED2020): FUTURE TRENDS AND APPLICATIONS, SEPTEMBER 22-24, 2020, JURAJ DOBRILA UNIVERSITY OF PULA, CROATIA**

Springer Nature This book focuses on novel design and systems engineering approaches, including theories and best practices, for promoting a better integration of people and engineering systems. It covers a range of innovative topics related to: development of human-centered systems; interface design and human-computer interaction; usability and user experience; innovative materials in design and manufacturing; biomechanics and physical rehabilitation, as well as safety engineering and systems complexity. The book, which gathers selected papers presented at the 3rd International Conference on Human Systems Engineering and Design: Future Trends and Applications (IHSED 2020), held on September 22-24, 2020, at Juraj Dobrila University of Pula, in Pula, Croatia, provides researchers and practitioners with a snapshot of the state-of-the-art and current challenges in the field of human systems engineering and design.

### **PRIMATE VISIONS**

#### **GENDER, RACE, AND NATURE IN THE WORLD OF MODERN SCIENCE**

Routledge Haraway's discussions of how scientists have perceived the sexual nature of female primates opens a new chapter in feminist theory, raising unsettling questions about models of the family and of heterosexuality in primate research.

### **EMERGING AFFINITIES - POSSIBLE FUTURES OF PERFORMATIVE ARTS**

transcript Verlag This volume is a response to the growing need for new methodological approaches to the rapidly changing landscape of new forms of performative practices. The authors address a host of contemporary phenomena situated at the crossroads between science and fiction which employ various media and merge live participation with mediated hybrid experiences at both affective and cognitive level. All essays collected here move across disciplinary divisions in order to provide an account of these new tendencies, thus providing food for thought for a wide readership ranging from performative studies to the social sciences, philosophy and cultural studies.

### **THE ART OF FAILURE**

#### **AN ESSAY ON THE PAIN OF PLAYING VIDEO GAMES**

MIT Press Argues that video games are not fun but actually lead to feelings of frustration and incompetence and that video games are one of the few mediums that allow us to experience and experiment with failure.

### **NANOTECHNOLOGY COMMERCIALIZATION**

CRC Press In terms of commercialization, nanomaterials occupy a unique place in nanotechnology. Engineered nanomaterials, especially nanoparticulate materials, are the leading sector in nanotechnology commercialization. In addition, the nanomaterial sector has attracted much more heated debate than any other nanotechnology sector with regard to safety, regulation, standardization, and ethics. This is the first book on nanotechnology commercialization that deals exclusively with nanomaterials. It provides overviews of the current trends in, and the issues associated with, the commercialization of nanomaterials by some of the foremost nanotechnology experts in their fields.

### **INTERDISCIPLINARY INSIGHTS FOR DIGITAL TOUCH COMMUNICATION**

Springer Nature Communication is increasingly moving beyond 'ways of seeing' to 'ways of feeling'. This Open Access book provides social design insights and implications for HCI research and design exploring digitally mediated touch communication. It offers a socially orientated map to help navigate the complex social landscape of digitally mediated touch for communication: from everyday touch-screens, tangibles, wearables, haptics for virtual reality, to the tactile internet of skin. Drawing on literature reviews, new case-study vignettes, and exemplars of digital touch, the book examines the major social debates provoked by digital touch, and investigates social themes central to the communicative potential and societal consequences of digital touch: · Communication environments, capacities and practices · Norms associations and expectations · Presence, absence and connection · Social imaginaries of digital touch · Digital touch ethics and values The book concludes with a discussion of the significance of social understanding and methods in the context of Interdisciplinary collaborations to explore touch, towards the design of digital touch communication, 'ways of feeling', that are useable, appropriate, ethical and socially aware.

### **FEMINISM AND "RACE"**

Oxford University Press on Demand This volume represents the strength as well as diversity of writings which discuss race and feminism showing how these two areas, usually considered to be distinct and therefore discrete from each other, have developed.

### **ADVANCES IN DESIGN AND DIGITAL COMMUNICATION**

#### **PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON DESIGN AND DIGITAL COMMUNICATION, DIGICOM 2020, NOVEMBER 5-7, 2020, BARCELOS, PORTUGAL**

Springer Nature This book reports on research findings and practical lessons featuring advances in: digital and interaction design; graphic design and branding; design strategies and methodologies; design education; society and communication in design practice; and other related areas. Gathering the proceedings of the 4th International Conference on Digital Design and Communication, Digicom 2020, held virtually on November 5-6, 2020, the book describes cutting-edge perspectives on and analysis of and solutions to challenges digital communication is currently presenting to society, institutions and brands. It offers a timely guide and a source of inspiration for designers of all kinds, including graphic, digital and web designers, UI, UX and social media designers, and to researchers, advertisers, artists, and entrepreneurs, as well as brand or corporate communication managers.

### **THE ROUTLEDGE COMPANION TO SCIENCE FICTION**

Routledge The Routledge Companion to Science Fiction is a comprehensive overview of the history and study of science fiction. It outlines major writers, movements, and texts in the genre, established critical approaches and areas for future study. Fifty-six entries by a team of renowned international contributors are divided into four parts which look, in turn, at: history - an integrated chronological narrative of the genre's development theory - detailed accounts of major theoretical approaches including feminism, Marxism, psychoanalysis, cultural studies, postcolonialism, posthumanism and utopian studies issues and challenges - anticipates future directions for study in areas as diverse as science studies, music, design, environmentalism, ethics and alterity subgenres - a prismatic view of the genre, tracing themes and developments within specific subgenres. Bringing into dialogue the many perspectives on the genre The Routledge Companion to Science Fiction is essential reading for anyone interested in the history and the future of science fiction and the way it is taught and studied.

### **SERVICE DESIGN PRACTICES FOR HEALTHCARE INNOVATION**

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## PARADIGMS, PRINCIPLES, PROSPECTS

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Springer Nature This book offers an overview of service design practices for healthcare and hospital management. It explores how these practices can help to generate innovations in healthcare and contribute to the improvement of patient-centered care. Respected experts, including scholars from various disciplines and practitioners from healthcare institutions, share essential insights into established research areas, fields of work and work structures, and discuss successful approaches, methods and tools. By illustrating innovative services, products, processes, systems, and technologies, as well as their application in practice, the authors highlight the role of participating stakeholders in service design projects and the added value that comes from sharing, communicating, networking and collaborating. This book is a must-read for scholars and practitioners in the hospital and healthcare sector. It will also appeal to anyone interested in organizational development, service business model innovation, customer involvement and perceptions, and service experience.

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## MIGRANT FUTURES

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### DECOLONIZING SPECULATION IN FINANCIAL TIMES

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Duke University Press In Migrant Futures Aimee Bahng traces the cultural production of futurity by juxtaposing the practices of speculative finance against those of speculative fiction. While financial speculation creates a future based on predicting and mitigating risk for wealthy elites, the wide range of speculative novels, comics, films, and narratives Bahng examines imagines alternative futures that envision the multiple possibilities that exist beyond capital's reach. Whether presenting new spatial futures of the US-Mexico borderlands or inventing forms of kinship in Singapore in order to survive in an economy designed for the few, the varied texts Bahng analyzes illuminate how the futurity of speculative finance is experienced by those who find themselves mired in it. At the same time these displaced, undocumented, unbanked, and disavowed characters imagine alternative visions of the future that offer ways to bring forth new political economies, social structures, and subjectivities that exceed the framework of capitalism.

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## SPECULATIVE RESEARCH

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### THE LURE OF POSSIBLE FUTURES

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CRESC Is another future possible? So called late modernity is marked by the escalating rise in and proliferation of uncertainties and unforeseen events brought about by the interplay between and patterning of social natural, techno scientific and political-economic developments. The future has indeed become problematic. The question of how heterogeneous actors engage futures, what intellectual and practical strategies they put into play and what the implications of such strategies are, have become key concerns of recent social and cultural research addressing a diverse range of fields of practice and experience. Exploring questions of speculation, possibilities and futures in contemporary societies, Speculative Research responds to the pressing need to not only critically account for the role of calculative logics and rationalities in managing societal futures, but to develop alternative approaches and sensibilities that take futures seriously as possibilities and that demand new habits and practices of attention, invention, and experimentation. "

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## EMERGING FUTURES AND OPTIONS MARKETS

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### AN OVERVIEW OF ISSUES AND PROSPECTS IN DEVELOPING COUNTRIES

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