
AI in the Wild: Sustainability in the Age of Artificial Intelligence

Item Type Book

Author Peter Dauvergne

Abstract Examining the potential benefits and risks of using artificial intelligence to advance global sustainability. Drones with night vision are tracking elephant and rhino poachers in African wildlife parks and sanctuaries; smart submersibles are saving coral from carnivorous starfish on Australia's Great Barrier Reef; recycled cell phones alert Brazilian forest rangers to the sound of illegal logging. The tools of artificial intelligence are being increasingly deployed in the battle for global sustainability. And yet, warns Peter Dauvergne, we should be cautious in declaring AI the planet's savior. In *AI in the Wild*, Dauvergne avoids the AI industry-powered hype and offers a critical view, exploring both the potential benefits and risks of using artificial intelligence to advance global sustainability. Dauvergne finds that corporations and states often use AI in ways that are antithetical to sustainability. The competition to profit from AI is entrenching technocratic management, revving up resource extraction, and turbocharging consumption, as consumers buy new smart devices (and discard their old, less-smart ones). Smart technology is helping farmers grow crops more efficiently, but also empowering the agrifood industry. Moreover, states are weaponizing AI to control citizens, suppress dissent, and aim cyberattacks at rival states. Is there a way to harness the power of AI for environmental and social good? Dauvergne argues for precaution and humility as guiding principles in the deployment of AI.

Date 2020

Language en

Short Title AI in the Wild

Library Catalog Panel on Planetary Thinking

Call Number 009 MS 9000 D244

Place Cambridge, Massachusetts

Publisher The MIT Press

ISBN 978-0-262-53933-3

of Pages 280

Date Added 1/10/2023, 6:49:26 PM

Modified 1/28/2025, 3:42:58 PM

Tags:

TECHNOSPHERE, sustainability, Computer Science/Artificial Intelligence

Algorithmic Reason: The New Government of Self and Other

Item Type Book

Author Claudia Aradau

Author Tobias Blanke

Abstract Are algorithms ruling the world today? Is artificial intelligence making life-and-death decisions? Are social media companies able to manipulate elections? As we are confronted with public and academic anxieties about unprecedented changes, this book offers a different analytical prism through which these transformations can be explored. Claudia Aradau and Tobias Blanke develop conceptual and methodological tools to understand how algorithmic operations shape the government of self and other. They explore the emergence of algorithmic reason through rationalities, materializations, and interventions, and trace how algorithmic rationalities of decomposition, recomposition, and partitioning are materialized in the construction of dangerous others, the power of platforms, and the production of economic value. The book provides a global transdisciplinary perspective on algorithmic operations, drawing on qualitative and digital methods to investigate controversies ranging from mass surveillance and the Cambridge Analytica scandal in the UK to predictive policing in the US, and from the use of facial recognition in China and drone targeting in Pakistan to the regulation of hate speech in Germany.

Date 2022

Language en

Short Title Algorithmic Reason

Library Catalog Panel on Planetary Thinking

Call Number 009 MF 6000 A658

Place Oxford

Publisher Oxford University Press

ISBN 978-0-19-285962-4

of Pages 288

Date Added 1/10/2023, 6:26:42 PM

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Tags:

TECHNOSPHERE, Political Theory, Social Sciences, International Relations, Computer Science/Artificial Intelligence

Attachments

- Aradau and Blanke - 2022 - Algorithmic Reason The New Government of Self and.pdf

Atlas of AI: Power, Politics, and the Planetary Costs of Artificial Intelligence

Item Type Book

Author Kate Crawford

Abstract What happens when artificial intelligence saturates political life and depletes the planet? How is AI shaping our understanding of ourselves and our societies? Drawing on more than a decade of research, award-winning scholar Kate Crawford reveals how AI is a technology of extraction: from the minerals drawn from the earth to the labor pulled from low-wage information workers to the data taken from every action and

expression. Crawford reveals how this planetary network is fueling a shift toward undemocratic governance and increased inequity. Rather than taking a narrow focus on code and algorithms, Crawford offers us a material and political perspective on what it takes to make AI and how it centralizes power. This is an urgent account of what is at stake as technology companies use artificial intelligence to reshape the world.

Date 2021
Language en
Short Title Atlas of AI
Library Catalog Panel on Planetary Thinking
Call Number 009 CC 7170 C899
URL <https://doi.org/10.2307/j.ctv1ghv45t>
Place New Haven London
Publisher Yale University Press
ISBN 978-0-300-26463-0 978-0-300-20957-0
of Pages 327
Date Added 3/12/2024, 6:03:20 PM
Modified 8/14/2025, 1:25:13 PM

Tags:

TECHNOSPHERE, AI

Attachments

- Atlas of AI Power, Politics, and the Planetary Costs of Artificial Intelligence.pdf

Dark Machines: How Artificial Intelligence, Digitalization and Automation Is Changing Our Living Planet

Item Type Book

Author Victor Galaz

Abstract This book offers a critical primer on how Artificial Intelligence and digitalization are shaping our planet and the risks posed to society and environmental sustainability. As the pressure of human activities accelerates on Earth, so too does the hope that digital and artificially intelligent technologies will be able to help us deal with dangerous climate and environmental change. Technology giants, international think-tanks and policy-makers are increasingly keen to advance agendas that contribute to “AI for Good” or “AI for the Planet.” Dark Machines explores why it is naïve and dangerous to assume converging forces of a growing climate crisis and technological change will act synergistically to the benefit of people and the planet. It explores why AI and associated digital technologies may lead to accelerated discrimination, automated inequality, and augmented diffusion of misinformation, while simultaneously amplifying risks for people and the planet. We face a profound challenge. We can either allow AI accelerate the loss of resilience of people and our planet, or we can decide to act forcefully in ways that redirects its destructive direction. This urgent

book will be of interest to students and researchers with an interest in Artificial Intelligence, digitalization and automation, social and political dimensions of science and technology, and sustainability sciences.

Date 2025
Language eng
Short Title Dark Machines
Library Catalog Panel on Planetary Thinking
Call Number 000 MS 4855 G147
Extra DOI: 10.4324/9781003317814
Place S.l.
Publisher Routledge
ISBN 978-1-032-33027-3 978-1-040-26223-8 978-1-003-31781-4 978-1-040-26220-7
of Pages 232
Date Added 2/5/2025, 4:30:26 PM
Modified 8/12/2025, 6:07:01 PM

Tags:

Science, TECHNOSPHERE, Artificial intelligence, Digitalization, Sustainability Sciences

Der elektronische Spiegel: menschliches Denken und künstliche Intelligenz

Item Type Book
Author Manuela Lenzen
Abstract Der elektronische Spiegel» handelt von dem Abenteuer, Intelligenz zu verstehen, indem man sie nachbaut. Die Wissenschaftsjournalistin Manuela Lenzen nimmt uns mit auf einen Streifzug durch das dynamische Forschungsfeld zwischen Psychologie, Neurowissenschaften, Biologie, Philosophie und KI-Forschung. Künstliche Intelligenz ist noch lange nicht so klug wie wir. Aber gerade deshalb kann sie uns Aufschluss darüber geben, wie Intelligenz wirklich funktioniert und wer wir sind. Während Künstliche Intelligenz landauf, landab diskutiert wird, ist kaum bekannt, dass die klugen Maschinen nie nur dazu da waren, uns langweilige oder gefährliche Arbeit abzunehmen. Sie waren von Beginn an Hypothesen über das Funktionieren des Geistes, elektronische Spiegel, in deren Zerrbild der Mensch nur umso besser erkennen kann, was Intelligenz ausmacht und was ganz offensichtlich nicht. Am Beginn der Künstliche-Intelligenz-Forschung stand die Vorstellung, man müsse das menschliche Denken nur genau genug beschreiben, um intelligente Maschinen bauen zu können. 70 Jahre später hat sich Ernüchterung eingestellt: Die größten Herausforderungen bestehen nicht darin, im Schach zu gewinnen oder in Gedanken geometrische Figuren zu drehen, sondern in so etwas schwer Greifbarem wie Flexibilität, Kreativität und gesundem Menschenverstand; darin, eine Situation zu verstehen und angemessen zu reagieren.
Date 2023
Short Title Der elektronische Spiegel
Library Catalog Panel on Planetary Thinking

Call Number 009 MS 4850 L575
Place München
Publisher C.H. Beck
ISBN 978-3-406-79208-3
Series C.H. Beck Paperback
Series Number 6492
Edition Originalausgabe
of Pages 269
Date Added 8/12/2025, 6:38:47 PM
Modified 8/12/2025, 6:40:51 PM

Tags:

TECHNOSPHERE, Politics, Technology, Artificial Intelligence, Human Cognition

Digital Ecologies: Mediating More-Than-Human Worlds

Item Type Book
Editor Jonathon Turnbull
Editor Adam Searle
Editor Henry Anderson-Elliott
Editor Eva Haifa Giraud

Abstract Digital ecologies draws together leading social science and humanities scholars to examine how digital media are reshaping the futures of conservation, environmentalism, and ecological politics. The book offers an overview of the emerging field of interdisciplinary digital ecologies research by mapping key debates and issues in the field, with original empirical chapters exploring how livestreams, sensors, mobile technologies, social media platforms, and software are reconfiguring life in profound ways. The collection traverses contexts ranging from animal exercise apps, to surveillance systems on the high seas, and is organised around the themes of encounters, governance, and assemblages. Digital ecologies also includes an agenda-setting intervention by the book's editors, and three closing chapter-length provocations by leading scholars in digital geographies, the environmental humanities, and media theory that set out trajectories for future research.

Date 2024

Language eng

Short Title Digital Ecologies

Library Catalog Panel on Planetary Thinking

Call Number 000 AP 14465 T942

Place Manchester

Publisher Manchester University Press

ISBN 978-1-5261-7034-7 978-1-5261-8860-1

of Pages 277

Date Added 5/14/2025, 5:48:30 PM

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Tags:

TECHNOSPHERE, Ecology, Environmentalism, Conservation, Social Science, Digital Technology, Ecological Politics, Digital Ecology

Digital Timescapes: Technology, Temporality and Society

Item Type Book

Author Rob Kitchin

Abstract Description Digital technologies are having a profound effect on the temporalities of individuals, households and organisations. We now expect to be able to instantly source a vast array of information at any time and from anywhere, as well as buy goods with the click of a button and have them delivered within hours, while time management apps and locative media have altered how everyday scheduling and mobility unfolds. Digital Timescapes makes the case that we have transitioned to an era where the production and experience of time is qualitatively different to the pre-digital era. Rob Kitchin provides a synoptic account of this transition, charting how digital technologies, in a wide range of manifestations, are reconfiguring everyday temporalities. Attention is focused on the temporalities associated with six sets of everyday practices: history and memory; politics and policy; governance and governmentality; mobility and logistics; planning and development; and work and labour. Critically, how to challenge and reorder digitally mediated temporal power is examined through the development of an ethics of temporal care and temporal justice. Conceptually and empirically rich, Digital Timescapes is an essential guide to our new temporal regime. It will be of interest to students and scholars of Media Studies, Science and Technology Studies, Sociology, Anthropology, Human Geography, and History and Memory Studies, as well as those who are interested in how digital technologies are transforming society.

Date 2023

Language en

Short Title Digital Timescapes

Library Catalog Panel on Planetary Thinking

Call Number 009 MS 4850 K62

Place Medford

Publisher Polity Press

ISBN 978-1-5095-5640-3 978-1-5095-5641-0

of Pages 229

Date Added 3/1/2023, 1:11:47 PM

Modified 1/29/2025, 5:18:02 PM

Tags:

Doing Digital Methods

Item Type Book

Author Richard Rogers

Abstract How do you use social media platforms, search engines, and other forms of digital media to explore the key issues of our time? With this second edition, learn how to use the latest advancements in digital methods to answer your pressing research questions. The new edition includes: A new chapter on critical social media research, Tips for analysing content on TikTok, Instagram, Twitter and more, Exploration of Google critique and algorithmic auditing, Examination of YouTube's content removal politics and Facebook's 'fake news' problem. Whether you are new to digital research or are exploring a new platform, this book equips you with tools to navigate the evolving digital landscape and conduct rigorous studies in the digital age.

Date 2024

Language eng

Library Catalog Panel on Planetary Thinking

Call Number 000 AK 39950 R728 (2)

Place London Thousand Oaks New Dehli Singapore

Publisher Sage

ISBN 978-1-5297-6432-1 978-1-5297-6433-8

Edition 2nd edition

of Pages 316

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Tags:

Social Media, Search Engines, Digital Media, Digital Methods, Digital Research

Notes:

Literaturverzeichnis: Seite 271-308, Index

Dreamscapes of Modernity: Sociotechnical Imaginaries and the Fabrication of Power

Item Type Book

Editor Sheila Jasanoff

Editor Sang-Hyun Kim

Abstract Dreamscapes of Modernity offers the first book-length treatment of sociotechnical imaginaries, a concept originated by Sheila Jasanoff and developed in close collaboration with Sang-Hyun Kim to describe how visions of scientific and technological progress carry with them implicit ideas about public purposes, collective futures, and the common good. The book presents a mix of case studies—including nuclear power in Austria, Chinese rice biotechnology, Korean stem cell research, the Indonesian Internet, US bioethics, global health, and more—to illustrate how the concept of sociotechnical imaginaries can lead to more sophisticated understandings of the national and transnational politics of science and technology. A theoretical introduction sets the stage for the contributors' wide-ranging analyses, and a conclusion gathers and synthesizes their collective findings. The book marks a major theoretical advance for a concept that has been rapidly taken up across the social sciences and promises to become central to scholarship in science and technology studies.

Date 2015

Language en

Short Title Dreamscapes of Modernity

Library Catalog Panel on Planetary Thinking

Call Number 009 MS 4850 J39

Place Chicago; London

Publisher The University of Chicago Press

ISBN 978-0-226-27649-6 978-0-226-27652-6

of Pages 354

Date Added 1/15/2023, 5:50:29 PM

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Tags:

Science, Social aspects, TECHNOSPHERE, Technological innovations

Energy and Rhythm: Rhythmanalysis for a Low Carbon Future

Item Type Book

Author Gordon P. Walker

Abstract "This is a novel and far reaching polyrhythmic theorisation of our collective living with energy in its many natural and technological forms. It provides a distinctive understanding of the urgent challenges of transforming future energy systems into more just and lower carbon configurations"--

Date 2020

Language en

Short Title Energy and Rhythm

Library Catalog Panel on Planetary Thinking

Call Number 009 MS 9000 W179

Place Lanham

Publisher Rowman & Littlefield
ISBN 978-1-78661-335-6 978-1-78661-354-7
of Pages 223
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Tags:

Philosophy, Social aspects, TECHNOSPHERE, Cycles, Force and energy, Power resources, Rhythm, Social change, Rhythmanalysis, Social Rhythm

Notes:

Introduction : energy and rhythm together -- Rhythm and rhythmanalysis : interpretation and foundation -- Energetic rhythms : thermodynamics and rhythmanalysis -- Solar and social rhythms : light, heat and polyrhythmic change -- Rhythms in energy systems : grid electricity and big (carbon) power -- Low carbon rhythms and electricity systems in polyrhythmic transition -- Rhythms without techno-energies : bodies, homes and cities

Entgrenzung: die Biologisierung der Technik und die Technisierung der Biologie

Item Type Book

Author Marco Tamborini

Abstract Dieser Band beschäftigt sich mit der Biologisierung der Technik und der Technisierung der Biologie, wie sie heute in Robotik, Architektur und Materialdesign zum Tragen kommt, aber auch in der Weise, wie technisches Wissen über Natur produziert und zur Geltung gebracht wird. Ob Flugzeugdesign, klimaangepasste Architektur oder der Einsatz von Robotern im Körperinneren: Die Grenzen zwischen Biologie und Technik verschwimmen zusehends. Wissensproduktion, Produktdesign und Produktherstellung haben dabei ihren Ausgangspunkt in morphologischen Konzepten und Praktiken, die auf eine sehr lange Geschichte der Formerforschung zurückblicken. Marco Tamborini erzählt von der Zirkulation morphologischen Wissens zwischen Biologie, Ingenieurwissenschaft und Architektur seit dem frühen 20. Jahrhundert, untersucht aber auch die damit verbundenen philosophischen Fragen: Was ist Natur, was ist Technik? Worin besteht der Unterschied zwischen Lebendigem und Maschinen? Wie wird technisches Wissen über Natur erzeugt und welchen Einfluss haben dabei soziale und ökonomische Faktoren? Anhand einiger Fallstudien dieser Entgrenzung von Technik und Biologie wird gezeigt, wie die Zirkulation von Wissen mit seiner Produktion verknüpft ist und welche Ursachen und Folgen die Überschreitung der disziplinären und methodischen Grenzen zwischen Biologie und Technik hatte und hat. Der Zugang über das »Rätsel der Form« erweist sich dabei als sinnvoller methodischer Ansatz, mit dessen Hilfe die klassische Wissenschaftsgeschichte um die Untersuchung der Zirkulationsdynamik von Wissen erweitert werden kann.

Date 2022

Language de

Short Title Entgrenzung
Library Catalog Panel on Planetary Thinking
Call Number 009 CC 8700 T1555
Place Hamburg
Publisher Meiner
ISBN 978-3-7873-4254-9
of Pages 207
Date Added 5/17/2023, 4:24:50 PM
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Tags:

Philosophy, TECHNOSPHERE, Philosophy of Biology, Philosophy of Science, Philosophy of Technology

Gaia's Web: How Digital Environmentalism Can Combat Climate Change, Restore Biodiversity, Cultivate Empathy, and Regenerate the Earth

Item Type Book

Author Karen Bakker

Abstract At the uncanny edge of the scientific frontier, Gaia's Web explores the promise and pitfalls the Digital Age holds for the future of our planet. Instead of the Internet of Things, environmental scientist and tech entrepreneur Karen Bakker asks, why not consider the Internet of Living Things? At the surprising and inspiring confluence of our digital and ecological futures, Bakker explores how the tools of the Digital Age could be mobilized to address our most pressing environmental challenges, from climate change to biodiversity loss. Interspersed with ten elegiac, enigmatic parables, each of which is based on an existing technology, Gaia's Web evokes the conundrums we face as the World Wide Web intertwines with the Web of Life. A new generation of innovators is deploying digital technology to come to the aid of the planet, using spy satellites to track down environmental criminals, inviting animals to the Metaverse, and biohacking Frankenstein-like biobots as environmental sentinels. But will they end up doing more harm than good? In an engaging take on conservation technology, Bakker looks at the digital tech applications to environmental issues from predatory harvesting of environmental data to human bycatch and eco-surveillance capitalism. If we address these issues and mobilize digitally mediated forms of citizen science, she argues, digital tech could help reverse environmental harms and advance environmental sustainability. And in the process, Big Tech might be transformed for the better. With its uniquely broad scope—combining insights from computer science, ecology, engineering, environmental science, and environmental law—Gaia's Web introduces profoundly novel ways of addressing our most pressing environmental challenges—mitigating climate change, protecting endangered species—and creating new possibilities for ecological justice by empowering nonhumans to participate in environmental regulation.

Date 2024

Language eng

Short Title Gaia's Web
Library Catalog Panel on Planetary Thinking
Call Number 000 MS 9000 B168
Place Cambridge, Massachusetts
Publisher The MIT Press
ISBN 978-0-262-04875-0 978-0-262-37769-0 978-0-262-37768-3
of Pages 280
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Tags:

TECHNOSPHERE, Ecology, Climate Change, Gaia hypothesis, Computer Science, Engineering

Notes:

Includes bibliographical references and index

In AI We Trust: Power, Illusion and Control of Predictive Algorithms

Item Type Book
Author Helga Nowotny
Abstract One of the most persistent concerns about the future is whether it will be dominated by the predictive algorithms of AI – and, if so, what this will mean for our behaviour, for our institutions and for what it means to be human. AI changes our experience of time and the future and challenges our identities, yet we are blinded by its efficiency and fail to understand how it affects us. At the heart of our trust in AI lies a paradox: we leverage AI to increase our control over the future and uncertainty, while at the same time the performativity of AI, the power it has to make us act in the ways it predicts, reduces our agency over the future. This happens when we forget that that we humans have created the digital technologies to which we attribute agency. These developments also challenge the narrative of progress, which played such a central role in modernity and is based on the hubris of total control. We are now moving into an era where this control is limited as AI monitors our actions, posing the threat of surveillance, but also offering the opportunity to reappropriate control and transform it into care. As we try to adjust to a world in which algorithms, robots and avatars play an ever-increasing role, we need to understand better the limitations of AI and how their predictions affect our agency, while at the same time having the courage to embrace the uncertainty of the future.

Date 2021
Language en
Short Title In AI We Trust
Library Catalog Panel on Planetary Thinking
Call Number 009 MS 4850 N948

Place Cambridge
Publisher Polity Press
ISBN 978-1-5095-4881-1
of Pages 200
Date Added 1/10/2023, 6:42:01 PM
Modified 8/6/2025, 12:55:42 PM

Tags:

TECHNOSPHERE, Science and Technology, Social Sciences, Sociology

Legacies of Fukushima: 3.11 in context

Item Type Book
Editor Kyle Cleveland
Editor Scott Gabriel Knowles
Editor Ryūma Shineha
Abstract "This book is about the 2011 Fukushima disaster in Japan. The disaster comprised a triple punch that began with an earthquake, which caused a tsunami, which triggered a meltdown at a nuclear plant"--
Date 2021
Language en
Short Title Legacies of Fukushima
Library Catalog Panel on Planetary Thinking
Call Number 009 AR 14120 C635
Place Philadelphia
Publisher University of Pennsylvania Press
ISBN 978-0-8122-5298-9
Series Critical studies in risk and disaster
Edition 1st edition
of Pages 324
Date Added 6/14/2023, 6:43:05 PM
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Tags:

Accidents, Fukushima Nuclear Disaster, Japan, 2011, Japan Fukushima-ken, Japan Tōhoku Region, Natural disasters, Nuclear power plants, TECHNOSPHERE, Tohoku Earthquake and Tsunami, Japan, 2011

Notes:

Chapter 1. What was learned from 3.11? / Scott Gabriel Knowles -- Chapter 2. Unfulfilled promises : why structural disasters make it difficult to "learn from disasters" / Kohta Juraku -- Chapter 3. Fukushima radiation insideout / Robert Jacobs -- Chapter 4. Has Japan learned a lesson from the Fukushima nuclear accident? / Tatsujiro Suzuki -- Chapter 5. The developmental state and nuclear power in Japan / Jeff Kingston -- Chapter 6. The road to Fukushima : a US-Japan history / James Simms -- Chapter 7. Media capture : the Japanese press and Fukushima / Martin Fackler -- Chapter 8. The politics of radiation assessment in the Fukushima nuclear crisis / Kyle Cleveland -- Chapter 9. Nuclear labor, its invisibility, and the dispute over low-dose radiation / Paul Jobin -- Chapter 10. Food and water contamination after the Fukushima nuclear accident / Tatsuhiro Kamisato -- Chapter 11. Suffering the effects of scientific evidence / Ekou Yagi -- Chapter 12. Building a community-based platform for radiation monitoring after 3.11 / Luis Felipe R. Murillo and Sean Bonner -- Chapter 13. The closely watched case of Iitate Village : the need for global communication of local problems / Azby Brown -- Chapter 14. Describing and memorializing 3.11 : Namie and Ishinomaki / Ryuma Shineha -- Chapter 15. Renegotiating nuclear safety after Fukushima : regulatory dilemmas and dialogues in the United States / William J. Kinsella -- Chapter 16. International reactions to Fukushima / Sonja D. Schmid and Başak Saraç-Lesavre

Life 3.0: Being Human in the Age of Artificial Intelligence

Item Type Book

Author Max Tegmark

Abstract AI is the future - but what will that future look like? Will superhuman intelligence be our slave, or become our god? Taking us to the heart of the latest thinking about AI, Max Tegmark, the MIT professor whose work has helped mainstream research on how to keep AI beneficial, separates myths from reality, utopias from dystopias, to explore the next phase of our existence. How can we grow our prosperity through automation, without leaving people lacking income or purpose? How can we ensure that future AI systems do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will AI help life flourish as never before, or will machines eventually outsmart us at all tasks, and even, perhaps, replace us altogether?

Date 2017

Language en

Short Title Life 3.0

Library Catalog Panel on Planetary Thinking

Call Number 009 ST 300 T261

Place London

Publisher Penguin Random House

ISBN 978-0-14-198180-2

of Pages 384

Date Added 1/10/2023, 7:10:22 PM

Modified 8/6/2025, 12:56:33 PM

Tags:

TECHNOSPHERE, popular science, Computer Science/Artificial Intelligence

Parallel Minds: Discovering the Intelligence of Materials

Item Type Book

Author Laura Tripaldi

Abstract Insights into the intelligence throughout the natural and technical environment, in the fabric of our devices and dwellings, in our clothes, and under our skin. Is there a way to understand the materials that surround us not as passive objects, but as other intelligences interacting with our own? In *Parallel Minds*, expert in materials science and nanotechnology Laura Tripaldi delivers not only detailed insights into the properties and emergent behaviors of matter as revealed by state-of-the-art chemistry, synthetic biology, and nanotech, but also a rich philosophical reflection that crosses the frontier between nature and culture, where the most cutting-edge scientific syntheses resonate with ancient myth. The result is a technomaterial bestiary full of unexpected encounters with “strange minds”—from cobwebs to kevlar and carbon fibre, from centaurs to amoebas to arachnids, from polycephalic slime to resonating plasmons, from viruses to golems. *Parallel Minds* reveals the intelligence at large throughout the natural and technical environment, in the fabric of our devices and dwellings, in our clothes, and even under our skin. Full of lateral ideas and unexpected images, Tripaldi's book imbues the study and synthesis of materials with a new urgency. For not only do the materials that surround us participate actively in the construction of the world in which we live, but harnessing their ability to interact intelligently with their environment could be the key to the future of our species.

Date 2022

Language en

Short Title *Parallel Minds*

Library Catalog Panel on Planetary Thinking

Call Number 009 CC 8280 T835

Place Falmouth [England]

Publisher Urbanomic

ISBN 978-1-913029-93-7

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Tags:

Philosophy, Intellect, Natural Sciences, Material Science, MATERIAL, New Materialism

Notes:

Originally published as "Menti Parallele" effequ 2021

Program Earth: Environmental Sensing Technology and the Making of a Computational Planet

Item Type Book

Author Jennifer Gabrys

Abstract Sensors are everywhere. Small, flexible, economical, and computationally powerful, they operate ubiquitously in environments. They compile massive amounts of data, including information about air, water, and climate. Never before has such a volume of environmental data been so broadly collected or so widely available. Grappling with the consequences of wiring our world, Program Earth examines how sensor technologies are programming our environments. As Jennifer Gabrys points out, sensors do not merely record information about an environment. Rather, they generate new environments and environmental relations. At the same time, they give a voice to the entities they monitor: to animals, plants, people, and inanimate objects. This book looks at the ways in which sensors converge with environments to map ecological processes, to track the migration of animals, to check pollutants, to facilitate citizen participation, and to program infrastructure. Through discussing particular instances where sensors are deployed for environmental study and citizen engagement across three areas of environmental sensing, from wild sensing to pollution sensing and urban sensing, Program Earth asks how sensor technologies specifically contribute to new environmental conditions. What are the implications for wiring up environments? How do sensor applications not only program environments, but also program the sorts of citizens and collectives we might become? Program Earth suggests that the sensor-based monitoring of Earth offers the prospect of making new environments not simply as an extension of the human but rather as new “technogeographies” that connect technology, nature, and people.

Date 2016

Language en

Short Title Program Earth

Library Catalog Panel on Planetary Thinking

Call Number 009 MS 9000 G119

Place Minneapolis

Publisher University of Minnesota Press

ISBN 978-0-8166-9314-6

of Pages 376

Date Added 1/10/2023, 7:01:06 PM

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Tags:

TECHNOSPHERE, Environment, Sociology, Digital Culture

Technofutures, Nature, and the Sacred: Transdisciplinary Perspectives

Item Type Book

Editor Celia Deane-Drummond

Editor Sigurd Bergmann

Editor Bronislaw Szerszynski

Abstract The capacity of human beings to invent, construct and use technical artifacts is a hugely consequential factor in the evolution of society, and in the entangled relations between humans, other creatures and their natural environments. Moving from a critical consideration of theories, to narratives about technology, and then to particular and specific practices, *Technofutures, Nature and the Sacred* seeks to arrive at a genuinely transdisciplinary perspective focusing attention on the intersection between technology, religion and society and using insights from the environmental humanities. It works from both theoretical and practical contexts by using newly emerging case studies, including geo-engineering and soil carbon technologies, and breaks open new ground by engaging theological, scientific, philosophical and cultural aspects of the technology/religion/nature nexus. Encouraging us to reflect on the significance and place of religious beliefs in dealing with new technologies, and engaging critical theory common in sociological, political and literary discourses, the authors explore the implicit religious claims embedded in technology.

Date 2017

Language eng

Short Title *Technofutures, Nature, and the Sacred*

Library Catalog Panel on Planetary Thinking

Call Number 000 MS 8950 D284

Extra OCLC: 991790547

Place London

Publisher Routledge, Taylor & Francis Group

ISBN 978-1-138-05337-3

of Pages 306

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Modified 12/10/2025, 11:26:14 AM

Tags:

TECHNOSPHERE, Religion, Technology, Climate, Engineering, Postnatural, Iconography

Ways of being: beyond human intelligence

Item Type Book

Author James Bridle

Abstract What does it mean to be intelligent? Is it something unique to humans - or do we share it with other beings? Recent years have seen rapid advances in 'artificial' intelligence, which increasingly appears to be something stranger than we ever imagined. At the same time, we are becoming more aware of the other intelligences which have been with us all along, unrecognized. These other beings are the animals, plants, and natural systems that surround us, and are slowly revealing their complexity and knowledge - just as the new technologies we've built are threatening to cause their extinction, and

ours. In *Ways of Being*, writer and artist James Bridle considers the fascinating, uncanny and multiple ways of existing on earth. What can we learn from these other forms of intelligence and personhood, and how can we change our societies to live more equitably with one another and the non-human world? From Greek oracles to octopuses, forests to satellites, Bridle tells a radical new story about ecology, technology and intelligence. We must, they argue, expand our definition of these terms to build a meaningful and free relationship with the non-human, one based on solidarity and cognitive diversity. We have so much to learn, and many worlds to gain.

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Short Title Ways of being
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Ways of Being: Beyond Human Intelligence

Item Type Book
Author James Bridle
Abstract Recent years have seen rapid advances in 'artificial' intelligence, which increasingly appears to be something stranger than we ever imagined. At the same time, we are becoming more aware of the other intelligences which have been with us all along, unrecognized. These other beings are the animals, plants, and natural systems that surround us, and are slowly revealing their complexity and knowledge - just as the new technologies we've built are threatening to cause their extinction, and ours. In *Ways of Being*, writer and artist James Bridle considers the fascinating, uncanny and multiple ways of existing on earth. What can we learn from these other forms of intelligence and personhood, and how can we change our societies to live more equitably with one another and the non-human world? From Greek oracles to octopuses, forests to satellites, Bridle tells a radical new story about ecology, technology and intelligence. We must, they argue, expand our definition of these terms to build a meaningful and free relationship with the non-human, one based on solidarity and cognitive diversity.

We have so much to learn, and many worlds to gain.

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- Bridle - 2022 - Ways of Being Beyond Human Intelligence.pdf

What Do Science, Technology, and Innovation Mean from Africa?

Item Type Book

Editor Clapperton Chakanetsa Mavhunga

Abstract In the STI literature, Africa has often been regarded as a recipient of science, technology, and innovation rather than a maker of them. In this book, scholars from a range of disciplines show that STI in Africa is not merely the product of “technology transfer” from elsewhere but the working of African knowledge. Their contributions focus on African ways of looking, meaning-making, and creating. The chapter authors see Africans as intellectual agents whose perspectives constitute authoritative knowledge and whose strategic deployment of both endogenous and inbound things represents an African-centered notion of STI. “Things do not (always) mean the same from everywhere,” observes Clapperton Chakanetsa Mavhunga, the volume's editor. Western, colonialist definitions of STI are not universalizable. The contributors discuss topics that include the trivialization of indigenous knowledge under colonialism; the creative labor of chimurenga, the transformation of everyday surroundings into military infrastructure; the role of enslaved Africans in America as innovators and synthesizers; the African ethos of “fixing”; the constitutive appropriation that makes mobile technologies African; and an African innovation strategy that builds on domestic capacities. The contributions describe an Africa that is creative,

technological, and scientific, showing that African STI is the latest iteration of a long process of accumulative, multicultural knowledge production.

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