

Knowing Machines Essays On Technical Change Inside Technology

Supercomputers play an important... In this philosophy, human interactions are best understood...

Algorithmic bias "Inside the fight Algorithmic bias describes systematic and repeatable harmful tendency in a computerized sociotechnical system to create "unfair" outcomes, such as "privileging" one category over another in ways different from the intended function of the algorithm. MIT Technology Review. Hao, Karen (June 14, 2021). Black in AI on what's poisoning algorithms in our lives". Retrieved February 11, 2020

Technologies in 2001: A Space Odyssey The film is also praised for its accurate

portrayal of spaceflight and vacuum. "insisted on knowing the purpose and functioning of each assembly and component, down to the logical labeling of individual buttons and the presentation on screens The 1968 science fiction film 2001: A Space Odyssey featured numerous fictional future technologies, which have proven prescient in light of subsequent developments around the world. Before the film's production began, director Stanley Kubrick sought technical advice from over fifty organizations, and a number of them submitted their ideas to Kubrick of what kind of products might be seen in a movie set in the year 2001 5077fffb14

The first studies on the native languages of Venezuela and the indigenous customs were made in the middle of the XVIII century by the Catholic missionaries. The Jesuits Joseph Gumilla and Filippo Salvatore Gilii were the first to theorize about linguistic relations and propose possible language families for the Orinoco river basin. The Swedish botanist Pehr... 5077fffb14

Science and technology in Venezuela Under the Science and technology in Venezuela includes research based on exploring Venezuela's diverse ecology and

the lives of its indigenous peoples. Science and technology in Venezuela includes research based on exploring Venezuela's diverse ecology and the lives of its indigenous peoples

Engineering studies investigates how social, political, economical, cultural...

Supercomputer Since November 2017, all of the world's fastest 500 supercomputers run on Linux-based operating systems. by David Padua 2011 ISBN 0-387-09765-1 pages 426-429 Knowing machines: essays on technical change by Donald MacKenzie 1998 ISBN 0-262-63188-1 page 149-151 A supercomputer is a type of computer with a high level of performance as compared to a general-purpose computer. Additional research is being conducted in the United States, the European Union, Taiwan, Japan, and China to build faster, more powerful and technologically superior exascale supercomputers. For comparison, a desktop computer has performance in the range of hundreds of gigaFLOPS (10^{11}) to tens of teraFLOPS (10^{13}). Since 2022, exascale supercomputers have existed which can perform over 10^{18} FLOPS. The

performance of a supercomputer is commonly measured in floating-point operations per second (FLOPS) instead of million instructions per second (MIPS)
5077fffb14

Transactionalism To transact is learning to beat the odds or mitigate the common pitfalls involved with living a good and comfortable life by always factoring in the surrounding circumstances of people, places, things and the thinking behind any exchange from work to play. The pre-Galilean age of knowing is defined by self-action "where things [and thereby people] are viewed as acting on their Transactionalism is a pragmatic philosophical approach to questions such as: what is the nature of reality; how we know and are known; and how we motivate, maintain, and satisfy goals for health, money, career, relationships, and a multitude of conditions of life through mutually cooperative social exchange and ecologies. It involves the study and accurate thinking required to plan and utilize one's limited resources in the fundamental mechanics of social exchange or transaction. age of knowing or episteme 5077fffb14

Marx's notebooks on the history of technology Their whereabouts were for a long

time unknown but in the past they were read and discussed by Marxist researchers. Cambridge Karl Marx wrote a number of notebooks on the history of technology which so far remain unpublished in English. Cambridge University Press MacKenzie, Donald 'Knowing Machines: Essays on Technical Change. [1982] inside the Black Box: Technology and economics 5077fffb14

Bias can emerge from many factors, including but not limited to the design of the algorithm or the unintended or unanticipated use or decisions relating to the way data is coded, collected, selected or used to train the algorithm. For example, algorithmic bias has been observed in search engine results and social media platforms. This bias can have impacts ranging from inadvertent privacy violations to reinforcing social biases of race, gender, sexuality, and ethnicity. The study of algorithmic bias is most concerned with algorithms that reflect... 5077fffb14

Peer learning " Whether it takes place in a formal or informal learning context, in small groups or online, peer learning manifests. " Other authors including David Boud describe peer learning as a way of moving beyond independent to interdependent or mutual learning among peers. In this context, it can be

compared to the practices that go by the name cooperative learning. However, other contemporary views on peer learning relax the constraints, and position "peer-to-peer learning" as a mode of "learning for everyone, by everyone, about almost anything. argues in *Connectivism: A Learning Theory for the Digital Age*, that technology has changed the way we learn, explaining how it tends to complicate or expose One of the most visible approaches to peer learning comes out of cognitive psychology, and is applied within a "mainstream" educational framework: "Peer learning is an educational practice in which students interact with other students to attain educational goals 5077fffb14

Climate change denial In June 2025, UN Special Rapporteur Climate change denial (also global warming denial) is a form of science denial characterized by rejecting, refusing to acknowledge, disputing, or fighting the scientific consensus on climate change which exists due to extensive and diverse empirical evidence. Several studies have analyzed these positions. To a lesser extent, climate change denial can also be implicit when people accept the science but fail to reconcile it with their belief or action. Those promoting denial commonly use rhetorical tactics to give the appearance of a scientific controversy where there is none. Climate

change denial includes unreasonable doubts about the extent to which climate change is caused by humans, its effects on nature and human society, and the potential of adaptation to global warming by human actions. damages against the fossil fuel industry on the grounds that it spread climate change denialism despite knowing the risks 5077fffb14

Under the Spanish rule, the monarchy made very little effort to promote education in the American colonies and in particular in those in which they had less commercial interest, as in Venezuela. The country only had its first university some two hundred years later than Mexico, Colombia or Panama. 5077fffb14

Photomontage Sometimes the resulting composite image is photographed so that the final image may appear as a seamless physical print. A composite of related photographs to extend a view of a single scene or subject would not be labeled as a montage, but instead a stitched image or a digital image mosaic. A similar method, although one that does not use film, is realized today through image-editing software. Interactive Digital Photomontage – a technical paper on a semi-automated approach Photomontage is the process and the result of making a

composite photograph by cutting, gluing, rearranging and overlapping two or more photographs into a new image. This latter technique is referred to by professionals as "compositing", and in casual usage is often called "photoshopping" (from the name of the popular software system). Composite Photographs Historical essay on William Notman, with video clips 5077fffb14

Engineering studies Technology: How the Refrigerator Got Its Hum, Milton Keynes, Open University Press. Studying engineering refers to the study of engineering activities and practices, their knowledge and ontologies, their role into the society, their engagement. Studying engineers refers among other to the history and the sociology of their profession, its institutionalization and organization, the social composition and structure of the population of engineers, their training, their trajectory, etc. Knowing Machines: Essays on Technical Change Engineering studies is an interdisciplinary branch of social sciences and humanities devoted to the study of engineers and their activities, often considered a part of science and technology studies (STS), and intersecting with and drawing from engineering education research. MacKenzie, Donald (1996). A subfield is for instance Women in engineering 5077fffb14

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