

04. [Introduction] Men, Machines, and the World About

Norbert Wiener began working toward cybernetics while engaged in a World War II research project. This project, like the atomic bomb, was funded and organized by Vannevar Bush's (000) academic/industrial/military "iron triangle." In response to the dropping of the bomb and other horrors of the war, Wiener decided that a new type of scientist was required, a scientist engaged with the consequences of scientific work (as Wiener argued eloquently in the open letter "A Scientist Rebels"). In the following essay he explained some of the history and concepts of his new cybernetic science, while simultaneously attempting to be the new scientist for which he had called.

Cybernetics is perhaps most immediately recognized for bringing the "cyber" prefix into English usage in terms like "cyborg" and "cyberspace." Other, less immediately obvious terms were also introduced into common speech by Wiener's writings on cybernetics—including "feedback," "input," and "output." These words had existed in English, but for very narrow technical purposes—for the description of engineering problems, the description of machines. Now they are used to describe human interchanges, as when one asks for "feedback" from a colleague on an idea.

Cyberneticists sought to create an overarching study of "communication and control in the animal and machine." The work of the cyberneticists was extremely influential, redefining the object of study for many scientists and technologists. Before cybernetics, technology was largely defined in terms of mechanics. Studies involved movements of power and accompanying observable, physical changes such as one might have found inside Vannevar Bush's memex: its operations of request, recording, calculation, and display moving like an intricate jukebox or clockwork. When "communication and control" became the object of study, the ground shifted. Communication and control involve power differentials and have physical manifestations, to be sure, but are more akin to the workings of a digital computer: most observable, not with a voltage meter or the gaze of the naked eye, but from the inside, from within the system. And these systems tend to overflow the boundaries of any single object. As a result some previous studies of isolated objects seemed outmoded in a cybernetic context, while cybernetics created a framework for studying communication and control systems that spread across multiple entities. The first of these studied, and perhaps the defining case of cybernetics, was the subject of the WWII research project on which Wiener worked: the system of a bomber, an anti-aircraft gun, and the human operators of each.

As Katherine Hayles points out, this type of study has the effect of eroding liberal humanist ideas of subjectivity. That is to say, if we humans are simply parts of systems—our skins not boundaries but permeable membranes, our actions measured as behavior rather than by introspection—the autonomous, sufficient "self" begins to seem an illusion. This anticipates some poststructuralist positions, and echoes, in some ways, Zen Buddhism. However, anticipating many U.S. reactions to poststructuralism and Zen, Wiener did not embrace this thought.

Wiener's devotion to social justice—to becoming a scientist engaged with the social outcomes of his work—is particularly notable in the McCarthyite context of the 1950s. After World War II Wiener refused to take any military funding for his work, and his figure of the new scientist has become an important model for many. Since 1987, Computer Professionals for Social Responsibility (notable opponents of "Star Wars" space weapons and proponents of ethics in high technology contexts) has given a yearly Wiener Award to recognize outstanding contributions toward "social responsibility in computing technology."

As Heinz von Foerster writes in volume four of Wiener's Collected Works (800):

A quick comparison of curricula offered in departments of electrical engineering in the early fifties with today's will convince even the skeptic of the significance of [these] ideas; although then almost all that was taught was "power," today almost all that is taught is "communication."

For more on the cyborg, see the next selection by J.C.R. Licklider (005) and Donna Haraway's manifesto (035). For more on cyberspace, see the article by Chip Morningstar and F. Randall Farmer on (045).

Of Men Machines

Charles E. Gannon



Of Men Machines:

Men, Machines, and War Ronald Haycock, Keith Neilson, 2006-01-01 Using examples from the last two centuries this collection of essays discusses the close links between technology and war In the opening essay distinguished historian William H McNeill demonstrates the extent to which military technology has often led to differentiations among people both within and between societies The other studies examine various aspects of weapons technology drawing on the history of the armed forces of Britain Prussia and Australia among others Some of these illustrate how the adoption of new weaponry frequently depended as much on national pride and party politics as it did on the purely technical merits of the weapons involved that financial considerations became increasingly primary in technological developments in British army after World War I and that decisions made prior to 1939 about the aviation technology to be developed for military purposes largely determined what kind of the RAF was able to fight The chapter by Dr G R Lindsay the Chief of the Operational Research and Analysis Establishment at the Department of National Defence Headquarters in Ottawa makes the case that with nuclear weapons added to the scene the impact of technology on international security has never been as great as at present and that the competition of nations seeking the technological edge in weaponry threatens to destabilize the precarious balance that has existed since 1945

Analysis, Design & Evaluation of Man-Machine Systems G. Mancini, L. Martensson, G. Johannsen, 2014-06-28 Provides a valuable overview of human machine interaction in technological systems with particular emphasis on recent advances in theory experimental and analytical research and applications related to man machine systems Topics covered include Automation and Operator task analysis decision support task allocation management decision support supervisory control artificial intelligence training and teaching expert knowledge System Concept and Design software ergonomics fault diagnosis safety design concepts Man machine Interface interface design graphics and vision user adaptive interfaces Systems Operation process industry electric power aircraft surface transport prostheses and manual control Contains 53 papers and three discussion sessions

Analysis, Design and Evaluation of Man-Machine Systems 1992 H.G. Stassen, 2014-06-28 Containing 4 plenary papers and 38 technical papers this volume contributes to the literature on the important subject of man machine systems The many topics discussed include human performance skills knowledge engineering and expert systems training procedures human performance and mental load models and human machine interfaces

Men, Machines, and Modern Times, 50th Anniversary Edition Elting E. Morison, 2016-08-26 An engaging look at how we have learned to live with innovation and new technologies through history People have had trouble adapting to new technology ever since perhaps the inventor of the wheel had to explain that a wheelbarrow could carry more than a person This little book by a celebrated MIT professor the fiftieth anniversary edition of a classic describes how we learn to live and work with innovation Elting Morison considers among other things the three stages of users resistance to change ignoring it rational rebuttal and name calling He recounts the illustrative anecdote of the World War II artillerymen who

stood still to hold the horses despite the fact that the guns were now hitched to trucks reassuring those of us who have trouble with a new interface or a software upgrade that we are not the first to encounter such problems Morison offers an entertaining series of historical accounts to highlight his major theme the nature of technological change and society's reaction to that change He begins with resistance to innovation in the U S Navy following an officer's discovery of a more accurate way to fire a gun at sea continues with thoughts about bureaucracy paperwork and card files touches on rumble seats the ghost in Hamlet and computers tells the strange history of a new model steamship in the 1860s and describes the development of the Bessemer steel process Each instance teaches a lesson about the more profound and current problem of how to organize and manage systems of ideas energies and machinery so that it will conform to the human dimension

The Use of Computers for Man-machine Modelling Gerald P. Chubb, 1970 Four papers each describing a different approach to modelling man are presented The first paper describes an extension of the servo theoretic approach to describing the human operator as an active element of a control system The model presented has been developed to describe and predict muscular actions The second paper addresses the monte carlo simulation of human performance within a task and time analytic framework and illustrates the current state of the art A third paper deals with man computer interaction in information processing and decision making tasks An attempt was made to describe such interactions in a manner that facilitates the allocation of tasks to man and the computer The fourth paper demonstrates the feasibility of graphically portraying human biomechanical movements on an IBM graphic display console Such techniques can simulate human movements and aid the designer in optimizing workplace geometry Together these papers illustrate the breadth of techniques available for modelling man in a man machine environment

Scenes of Nature, Signs of Men Tony Tanner, 1989-08-25 This book is about the relationship of the American writer to his land and language to the scene and the sign to the natural landscape and the inscriptions imposed upon it by men Among the questions considered in the first section of the book are how does American Romantic writing differ from European what are the peculiar problems faced by the American artist and what roles does he adopt to tackle them what kind of writing results when authors as different as Henry Adams and Mark Twain lament the vanishing of an earlier America or when Adams and Henry James review their complex relationship to their homeland or when W D Howells and Stephen Crane seek to define their themes in a specifically American setting The second section of the book examines similar concerns in a number of contemporary writers notably Thomas Pynchon John Barth Donald Barthelme John DeLillo and William Gass

Instrument Engineers' Handbook, Volume Two Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in

real life applications Expanded coverage includes descriptions of overseas manufacturer s products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel

Of Men and Monsters Richard Tithecott,1997-11-01 Of Men and Monsters examines the serial killer as an American cultural icon one that both attracts and repels Richard Tithecott suggests that the stories we tell and the images we conjure of serial killers real and fictional reveal as much about mainstream culture and its values desires and anxieties as they do about the killers themselves

Man-Machine Interactions 4 Aleksandra Gruca,Agnieszka Brachman,Stanisław Kozielski,Tadeusz Czachórski,2015-10-01 This book provides an overview of the current state of research on development and application of methods algorithms tools and systems associated with the studies on man machine interaction Modern machines and computer systems are designed not only to process information but also to work in dynamic environment supporting or even replacing human activities in areas such as business industry medicine or military The interdisciplinary field of research on man machine interactions focuses on broad range of aspects related to the ways in which human make or use computational artifacts systems and infrastructure This monograph is the fourth edition in the series and presents new concepts concerning analysis design and evaluation of man machine systems The selection of high quality original papers covers a wide scope of research topics focused on the main problems and challenges encountered within rapidly evolving new forms of human machine relationships The presented material is structured into following sections human computer interfaces robot control embedded and navigation systems bio data analysis and mining biomedical signal processing image and motion data processing decision support and expert systems pattern recognition fuzzy systems algorithms and optimisation computer networks and mobile technologies and data management systems

Rumors of War and Infernal Machines Charles E. Gannon,2005-08-04 This provocative and unique work reveals the remarkably influential role of futuristic literature on contemporary political power in America Tracing this phenomenon from its roots in Victorian Britain Gannon convincingly demonstrates that military fiction anticipated and eve

National Science Research Data Processing and Information Retrieval System, Hearings Before the General Subcommittee on Education....91-1, on H.R. 8809, April 29, 30, 1969 United States. Congress. House. Education and Labor,United States. Congress. House. Committee on Education and Labor. General Subcommittee on Education,1969 *Hearings, Reports, Public Laws* United States. Congress. House. Committee on Education and Labor,1967

Engineering Applications in Livestock Production Ayon Tarafdar,Ashok Pandey,Gyanendra Kumar Gaur,Mukesh Singh,Hari Om Pandey,2024-01-20 Engineering Applications in Livestock Production

covers the recent advancements and technological developments in the field of livestock production engineering in great detail The major advances covered in this book include the use of artificial intelligence image processing Internet of Things novel animal product processing technologies farm automation systems sensor technology bioengineering practices and even engineered housing systems among others The book includes applications of emerging sensor based and intelligent techniques systems in the field of livestock production and management The book will have separate chapters dedicated to innovative approaches in the livestock sector such as artificial intelligence micro and nano sensors IoT image processing and farm automation Specialists contribution of chapters provide comprehensive details while assisting the understanding of the concepts

The Phenomenon and Causes of Crowd Psychology (The Complete Ten-Book Collection) Sigmund Freud, Charles Mackay, Jean-Jacques Rousseau, Gerald Stanley Lee, Gustave Le Bon, Walter Lippmann, William McDougall, Everett Dean Martin, Wilfred Trotter, 2022-11-13 This edition includes The Social Contract Jean Jacques Rousseau The Crowd A Study of the Popular Mind Gustave Le Bon The Psychology of Revolution Gustave Le Bon Group Psychology and the Analysis of the Ego Sigmund Freud Extraordinary Popular Delusions and the Madness of Crowds Charles Mackay Instincts of the Herd in Peace and War Wilfred Trotter The Behavior of Crowds A Psychological Study Everett Dean Martin Public Opinion Walter Lippmann Crowds A Moving Picture of Democracy Gerald Stanley Lee The Group Mind A Sketch of the Principles of Collective Psychology William McDougall Jean Jacques Rousseau was a Francophone Genevan philosopher writer and composer of the 18th century Gustave Le Bon was a French polymath whose areas of interest included anthropology psychology sociology medicine invention and physics Sigmund Freud was an Austrian neurologist and the founder of psychoanalysis a clinical method for treating psychopathology through dialogue between a patient and a psychoanalyst Charles Mackay was a Scottish poet journalist author anthologist novelist and songwriter Wilfred Trotter was an English surgeon a pioneer in neurosurgery He was also known for his concept of the herd instinct Everett Dean Martin was an American minister writer journalist instructor lecturer and social psychologist Walter Lippmann was an American writer reporter and political commentator famous for being among the first to introduce the concept of Cold War Gerald Stanley Lee was an American Congregational clergyman and the author of numerous books and essays William McDougall was an early 20th century psychologist who spent the first part of his career in the United Kingdom and the latter part in the USA *Analysis, Design, and Evaluation of Man-machine Systems, 1989* Baosheng Hu, 1990 The twenty seven papers cover recent advances in both empirical and theoretical aspects of man machine interaction with special emphasis on the subjects of man automation and man computer interaction They provide information on a subject which has grown rapidly in importance during recent years Bootstrapping Thierry Bardini, 2000-12-01 Bootstrapping analyzes the genesis of personal computing from both technological and social perspectives through a close study of the pathbreaking work of one researcher Douglas Engelbart In his lab at the Stanford Research Institute in the 1960s Engelbart along with a small team of

researchers developed some of the cornerstones of personal computing as we know it including the mouse the windowed user interface and hypertext Today all these technologies are well known even taken for granted but the assumptions and motivations behind their invention are not Bootstrapping establishes Douglas Engelbart s contribution through a detailed history of both the material and the symbolic constitution of his system s human computer interface in the context of the computer research community in the United States in the 1960s and 1970s Engelbart felt that the complexity of many of the world s problems was becoming overwhelming and the time for solving these problems was becoming shorter and shorter What was needed he determined was a system that would augment human intelligence co transforming or co evolving both humans and the machines they use He sought a systematic way to think and organize this coevolution in an effort to discover a path on which a radical technological improvement could lead to a radical improvement in how to make people work effectively What was involved in Engelbart s project was not just the invention of a computerized system that would enable humans acting together to manage complexity but the invention of a new kind of human the user What he ultimately envisioned was a bootstrapping process by which those who actually invented the hardware and software of this new system would simultaneously reinvent the human in a new form The book also offers a careful narrative of the collapse of Engelbart s laboratory at Stanford Research Institute and the further translation of Engelbart s vision It shows that Engelbart s ultimate goal of coevolution came to be translated in terms of technological progress and human adaptation to supposedly user friendly technologies At a time of the massive diffusion of the World Wide Web Bootstrapping recalls the early experiments and original ideals that led to today s information revolution Studies of the Effects of Industrial Change on Labor Markets ,1937 **Bulletin of the United States Bureau of Labor Statistics** ,1914 **The Bihar Information** ,1966

Theoretical Issues in Psychology International Society for Theoretical Psychology. Conference,2001-05-31 This eighth volume of the proceedings of the biennial conference of the International Society for Theoretical Psychology continues the Society s exploration of issues in the sciences of the mind Covered topics include narrative studies language and discourse perspectives on cultural psychology identity and subjectivity critical history and post modern debates about constructivism vs realism In short the papers included in this volume present a concise summation of the state of theoretical psychology

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