

McCorduck's Machines Who Think after Twenty-Five Years Revisiting the Origins of AI

Philip Mirowski

■ *Machines Who Think: A Personal Inquiry into the History and Prospect of Artificial Intelligence*. Pamela McCorduck. San Francisco, California, Freeman, 1979. 375 pp., ISBN 0-7167-11135-4.

O ver the course of the last half-century, a number of books have sought to explain AI to a larger audience and many more devoted to writing the formal history of AI. It is a tribute to her powers of observation and her conversational style that none has really proven more successful than Pamela McCorduck's *Machines Who Think*,¹ now approaching the quarter-century mark. Currently, it is the first source cited on the AI Topics web site on the history of AI. Based on extensive interviews with many of the early key players, it managed to forge the template for most subsequent histories, in the sense of providing them both the time line and the larger frame tale. The time line consisted of an extended prehistory, encompassing isolated attempts to mechanize thought and construct various automata, all treated with bemused condescension; a turning point located with pin-

point precision at the Dartmouth summer conference of 1956; and then an upward trend, punctuated by periodic bouts of soul searching. The frame tale provided therein was basically that AI was "an idea that has pervaded Western intellectual history, a dream in urgent need of being realized" (p. xii) and that this innate primal urge to build little simulacra of ourselves (along with the obvious fact of the technological development of the computer in World War II) was and is sufficient to explain the rise of the new science. The primary principle of selection governing her account is that AI "did not originate in the search for solutions to practical problems.... I like to think of artificial intelligence as the scientific apotheosis of a veritable cultural tradition" (p. 29).

These principles of selection produced a sleek narrative that was very internalist,² which is perhaps one reason the story line has been very popular in pedagogical contexts, such as textbooks.³ However, recent historical research, which includes a reexamination of McCorduck's own interview transcripts, has begun to uncover other possible narratives, es-

pecially ones not so intent on portraying the genesis of AI as occurring in splendid isolation from other disciplinary innovations growing out of WWII and, in particular, one more closely bound with certain specific applied concerns found in that era. McCorduck conceded in her book that her account was unabashedly personal and impressionistic, but she did not reveal the extent to which it had been colored by her own close personal relations with some of the early members of the Carnegie Mellon University Computer Science Department. In its execution, *Machines* tended to be dominated by the viewpoint of Herbert Simon in ways both big and small. In everything from its elevation of the symbol-processing approach to center stage (already somewhat outdated by the later 1970s), to its expressions of disdain for philosophers, to its treatment of John von Neumann's later position on computer intelligence as somehow perversely misguided, to the choice of the Dartmouth conference as the pivotal event in the history of AI, the text is redolent of Simon's exuberant opinions and personality. However, there was one observation made by Simon (as well as his collaborators) that unaccountably receives no attention in the book. As Simon admitted numerous times, both in interviews and in print,

The history of AI goes back ... almost to the beginnings of operations research. It is instructive to look at that early history in order to see why the two disciplines did not develop more nearly synchronously and with closer relation to each other.... [I]n the decade after 1955, the tools of AI were applied side by side with OR tools to problems of management.... [T]hese pioneering applications of AI methods to management were not followed up. After about 1960, AI and OR went their separate ways; whole new generations of scientists trained in these disciplines were largely unacquainted with the techniques provided by the other (Simon 1987, pp. 8, 10).

Mini After Twenty Five Years

Chicago (Ill.). Bureau of Social Surveys

Mini After Twenty Five Years:

Retirement After Twenty-five Years of Service United States. Congress. House. Committee on the Civil Service,1946

Retirement After Twenty-five Years of Service, Hearings ..., on H.R.4718 ..., May 23-June 13, 1946 United States. Congress. House. Committee on the Civil Service,1946 **Classic Mini Specials and Moke** Keith Mainland,2015-07-31 Produced from 1959 until 2000 the classic Mini is loved by millions of owners previous owners and enthusiasts The Mini s creator Alec Issigonis was given a free hand to make a proper small car and his innovative design not only redefined the family car but also started a revolution as a performance car Classic Mini Specials and Moke explores the diverse range of vehicles that used the Mini shape as well as the only variation actually designed by Alec Issigonis the Mini Moke In addition to the famous race and rally cars coachbuilt conversions and highly modified saloons and commercials Keith Mainland looks at overseas Mini and Moke production and the many factory produced limited edition Minis There is also advice about buying and owning your own special Mini **Game of Privilege** Lane Demas,2017-08-09 This

groundbreaking history of African Americans and golf explores the role of race class and public space in golf course development the stories of individual black golfers during the age of segregation the legal battle to integrate public golf courses and the little known history of the United Golfers Association UGA a black golf tour that operated from 1925 to 1975 Lane Demas charts how African Americans nationwide organized social campaigns filed lawsuits and went to jail in order to desegregate courses he also provides dramatic stories of golfers who boldly confronted wider segregation more broadly in their local communities As national civil rights organizations debated golf s symbolism and whether or not to pursue the game s integration black players and caddies took matters into their own hands and helped shape its subculture while UGA participants forged one of the most durable black sporting organizations in American history as they fought to join the white Professional Golfers Association PGA From George F Grant s invention of the golf tee in 1899 to the dominance of superstar Tiger Woods in the 1990s this revelatory and comprehensive work challenges stereotypes and indeed the fundamental story of race and golf in American culture *Report Upon the Commercial Relations of the United States with Foreign Countries*

United States. Bureau of Foreign and Domestic Commerce,1902 **Reports of the Immigration Commission:**

Immigrants in industries (in twenty-five parts) United States. Immigration Commission (1907-1910),1911

Commercial Relations of the United States with Foreign Countries During the Years ... ,1902 Report Upon the Commercial Relations of the United States with Foreign Countries United States Department of State,1902

Retirement and the Individual: Early retirement and related subjects United States. Congress. Senate. Special Committee on Aging. Subcommittee on Retirement and the Individual,1967 *Retirement and the Individual* United States. Congress. Senate. Special Committee on Aging. Subcommittee on Retirement and the Individual,1967 **Besieged**

Beachhead J. J. Valdés,2024-11-05 On New Year s Day 1959 Fidel Castro s revolutionary movement overthrew the ruling

regime in Cuba bringing the Cold War to the United States doorstep and setting the island nation and its superpower neighbor on a collision course The clash came in April 1961 on the southern coast of Cuba at the Bah a de Cochinos the Bay of Pigs In an hour by hour chronicle that is as even handed as it is dramatic J J Vald s gets to the heart of this Cold War battle from the beaches and skies of Cuba to the corridors of power in Washington and Havana Long entangled in Cuba s economy and politics the United States watched Castro s revolution carefully and grew wary as Castro drew closer to the Soviet Union Within a few months the CIA with President Dwight Eisenhower s approval was recruiting and training Cuban exiles for a paramilitary force to topple Castro By early 1960 when John F Kennedy became president after campaigning on a hard line on Cuba policymakers believed the window for action was closing Kennedy gave the go ahead for the island s invasion but not before ordering changes aimed at concealing American involvement that weakened the operation Early on April 17 1961 1 400 men of Brigade 2506 Cuban exiles trained by the CIA in Guatemala began landing at the Bay of Pigs just over 100 miles southeast of Havana Nearly everything went wrong Boat engines failed Coral reefs snarled landing craft Castro s planes destroyed ships carrying vital ammunition and medical supplies Expected popular support within Cuba did not materialize Khrushchev rattled the nuclear saber spooking Kennedy from ordering assistance he was reluctant to provide anyway Over the course of three days the Brigade obstinately defended a rapidly shrinking beachhead but the exiles outnumbered and under supported were no match for the air and ground forces Castro threw against them By April 19 the invasion had failed and 1 200 scattered survivors were captured over the ensuing days What had been intended as a Cold War masterstroke ended in embarrassment for the U S The Bay of Pigs disaster would set the stage for the Cuban Missile Crisis eighteen months later and shape U S Cuba relations up until the present Decades in the making Besieged Beachhead draws from English and Spanish sources in the United States and Cuba to tell the story of this conflict as it has never been told before Along the way the work sheds light on events that have been shrouded in secrecy myth and propaganda for six decades

They Must Be Represented Paula Rabinowitz,2020-05-05 They Must Be Represented examines documentary in print photography television and film from the 1930s through the 1980s using the lens of recent feminist film theory as well as scholarship on race class and gender emerging from the new interdisciplinary approach of American cultural studies Paula Rabinowitz discusses the ways in which these four media shaped truth claims and political agency over the decades in the 1930s about poverty labor and popular culture during the depression in the 1960s about the Vietnam War racism work and counterculture and in the 1980s about feminist and gay critiques of gender history narrative and cinema A great deal of documentary expression has been influenced by developments in cultural anthropology as committed artists brought their cameras and typewriters into the field not only to report but also to change the world Yet recently the projects of both anthropology and documentary have come under scrutiny Rabinowitz argues that the gendering of vision that occurs when narratives confirm to conventional genres profoundly affects the relation of documentarian to subject She goes on to define

this gendering of vision in documentary as an ethnographic process Ultimately this polemical study challenges the construction of the spectator in psychoanalytic film theory and articulates a new model for theorizing power relations in culture and history Care of the Aged in Chicago Chicago (Ill.). Bureau of Social Surveys,1927 *Reduction of Retirement Benefits Due to Social Security Increases* United States. Congress. Senate. Special Committee on Aging. Subcommittee on Employment and Retirement Incomes,1967 Retirement and the Individual: Survey hearing - Washington, D.C., June 7 and 8, 1967 United States. Congress. Senate. Special Committee on Aging. Subcommittee on Retirement and the Individual,1967 Engineering ,1907 *Economic history pamphlets* ,1920 *Proceedings of the Connecticut Medical Society ...* Connecticut Medical Society,1867 **The Mammoth Book of Best New Horror 11** Stephen Jones,2012-03-01 As usual acclaimed horror anthologist Stephen Jones has chosen the finest short stories and novellas of supernatural and psychological fiction With the most comprehensive review of the year useful contact lists and a fascinating necrology as a bonus this is one book that every horror fan must have **Teachers' Pensions** United States. Office of Education,1908

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