Annie Jacobsen: Inside DARPA – The Pentagon's Brain

Description

Jacobsen, A.. (2015). The Pentagon's brain : an uncensored history of DARPA, America's top secret military research agency. Little, Brown US

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"First edition. since its inception in 1958, the defense advanced research projects agency, or darpa, has grown to become the defense department's most secret, most powerful, and most controversial military science research and development agency. created by president eisenhower to prevent another sputnik, and to focus primarily on defensive programs against nuclear weapons, the agency–and its imagination and scope–has expanded enormously with each passing year. from agent orange in vietnam to insect-sized drones in use today, from the earliest networked computers and the internet to smart rockets and war zones under 24-hour video surveillance, darpa is responsible for innovations that have changed the course of war, national security, and strategic planning at the highest levels. to uncover the secret history of darpa in action, journalist annie jacobsen tracked down key players in darpa's smart weapons program, past and present; neuroscientists building an artificial brain, cell biologists working on limb regeneration, the nobel laureate who invented the laser. from darpa's earliest defensive advances to hundreds of ongoing programs, jacobsen exposes both sides of the darpa coin: the fantastic technological advances from which we all benefit, and the darker side drawn up in a race for military supremacy. based on information from inside sources, exclusive interviews, private documents, and declassified memos, the pentagon's brain reads like science fiction but is absolutely true, a groundbreaking look behind the scenes at the clandestine intersection of science and the american military.–publisher information. the cold war : the evil thing ; war games and computing machines ; vast weapons systems of the future ; emergency plans ; sixteen hundred seconds until doomsday ; psychological operations — the vietnam war : techniques and gadgets ; rand and coin ; command and control ; motivation and morale ; the jasons enter vietnam ; the electronic fence ; the end of vietnam — operations other than war : rise of the machines ; star wars and tank wars ; the gulf war and operations other than war ; biological weapons ; transforming humans for war — the war on terror : terror strikes ; total information awareness ; ied war ; combat zones that see ; human terrain — future war : drone wars ; brain wars ; the pentagon's brain."
Moreno, J. D.. (2012). Mind wars : brain science and the military in the twenty-first century. Bellevue Literary Press

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“Minority report meets dr. strangelove in the true story of how neuroscience and related technologies are shaping national defense. acknowledgments; introduction; 1. darpa on your mind; 2. of machines and men; 3. mind games; 4. how to think about the brain; 5. brain reading; 6. building better soldiers; 7. enter the nonlethals; 8. toward an ethics of neurosecurity; sources; index; about the author.”
Miranda, R. A., Casebeer, W. D., Hein, A. M., Judy, J. W., Krotkov, E. P., Laabs, T. L., … Ling, G. S. F. . (2014). DARPA-funded efforts in the development of novel brain-computer interface technologies.. Journal of Neuroscience Methods, 244, 52–67.

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“The defense advanced research projects agency (darpa) has funded innovative scientific research and technology developments in the field of brain-computer interfaces (bci) since the 1970s. this review highlights some of darpa’s major advances in the field of bci, particularly those made in recent years. two broad categories of darpa programs are presented with respect to the ultimate goals of supporting the nation’s warfighters: (1) bci efforts aimed at restoring neural and/or behavioral function, and (2) bci efforts aimed at improving human training and performance. the programs discussed are synergistic and complementary to one another, and, moreover, promote interdisciplinary collaborations among researchers, engineers, and clinicians. finally, this review includes a summary of some of the remaining challenges for the field of bci, as well as the goals of new darpa efforts in this domain.”
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