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Brainmakers: How Scientists Moving Beyond Computers Create Rival to Humn Brain

By David H. Freedman

Touchstone. Paperback. Book Condition: New. Paperback. 224 pages. Dimensions: 8.5in. x 5.6in. x 0.6in. Join David Freedman as he takes you on a fascinating tour behind the scenes at laboratories around the world as top researchers race to create revolutionary thinking machines that may one day lead to a new form of intelligence. The subject of fantasy and skepticism for centuries-- from William Jamess mechanical bride to 2001s Hal to Star Wars R2D2-- artificial intelligence has been limited to number-crunching computers that aresmart only in highly specific domains like chess-- until now. Brainmakers is an eye-opening, mind-expanding, and mind-blowing journey through laboratories engaged in cutting-edge research into neuro-science and robotics. Inside, youll discover: MITs Attila, a 3. 6-pound, six-legged robot that learns as it interacts with its surroundings. Japans efforts to grow brain cells on chips and construct a wiring diagram of the human brain UCLAs robot farm, where robots will be bred for intelligence. In exciting yet accessible detail, Freedman shows how this research has moved into a new realm that transcends computer science, combining neuroscience, mircobiology, evolutionary biology, and zoology. Modeled after natural rather than artificial intelligence, thinking machines may soon develop powers that rival-- or exceed-- those of...



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