





Next Big Things in Tech 2024

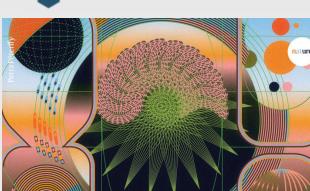
From Al-generated video breakthroughs to greener bitcoin mining techniques, these technologies are shaping the future of our economy-and our world at large.

FC fastcompany.com











How close is AI to human-level

intelligence?

Explainer: What Are Al Agents? What exactly are Al agents, and how does agentic Al work? This explainer provides a rundown on this hot topic within artificial

Large language models such as OpenAl's o1 have electrified the debate over achieving artificial general intelligence, or AGI. But they are unlikely to reach this milestone on their own. Large language models such as OpenAl's o1 have electrified the debate over achieving artificial general...

intelligence. Al agents can make people more efficient and productive by taking charge of mundane tasks, and acting autonomously to get them done. But risks remain... spectrum.ieee.org



Generative AI Is Still Just a Prediction Machine

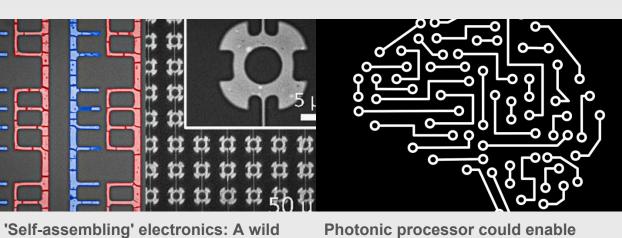
To understand the strategic implications of Al's new capabilities, managers need a framework for when AI will be helpful and when it might fail. Under the hood, generative AI tools are still prediction engines, enabled by improvements in computational statistics and large amounts of data.

hbr.org



INFRASTRUCTURE





'Self-assembling' electronics: A wild new manufacturing process A remarkable proof-of-concept project has

successfully manufactured nanoscale diodes and transistors using a fast, cheap new production technique in which liquid metal is directed to self-assemble into precise 3D structures. newatlas.com

The deep neural network models that power

today's most demanding machine-learning applications have grown so large and complex that they are pushing the limits of traditional electronic computing hardware. phys.org

ultrafast Al computations with extreme

energy efficiency



There is a fractal nature in modern computing that is only becoming more and more apparent as workloads have long since outstripped the capacity of a

nextplatform.com



LIFE SCIENCES





explore the discoveries that could transform reproduction, healthcare and how we die. Technology that once seemed like science fiction is rapidly becoming reality, transforming the very essence of... youtube.com



ADVANCED MATERIALS





can join together to form a frictionless quantum soup. quantamagazine.org

ARTIFICIAL SENSING

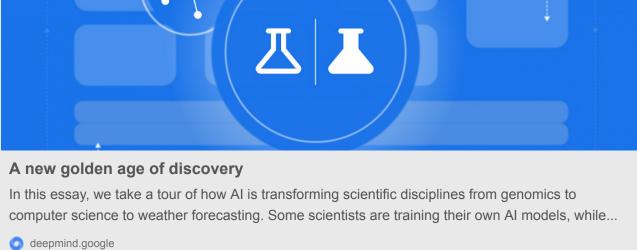




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IN THE LAB







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AFTER HOURS













a way around the ban.

reuters.com







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