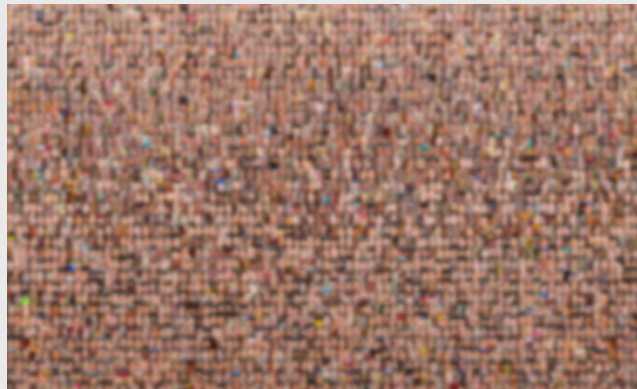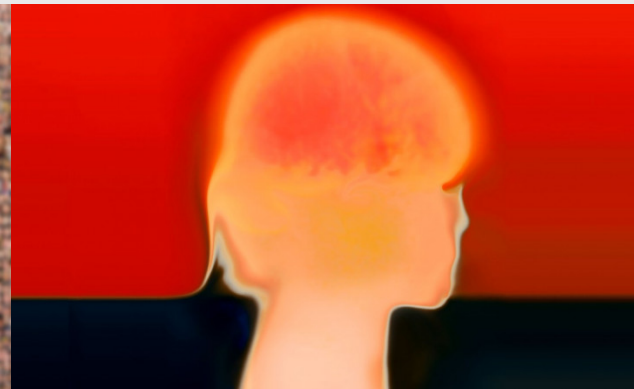## ARTIFICIAL INTELLIGENCE

Humans are biased. Generative AI is even worse
Stable Diffusion's text-to-image model amplifies stereotypes about race and gender — here's why that matters
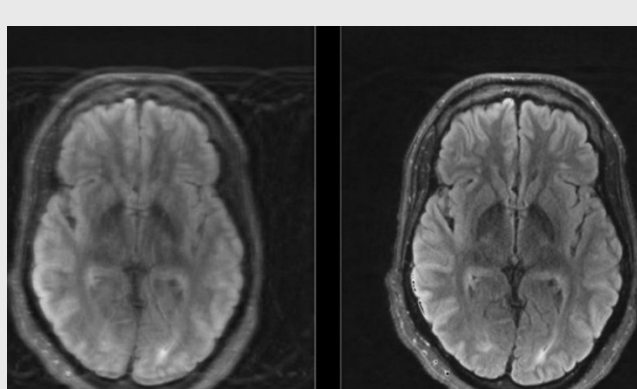
bloomberg.com

To Navigate the Age of AI, the World Needs a New Turing Test
The father of modern computing would have opened his arms to ChatGPT. You should too.

wired.com

MIT researchers combine deep learning and physics to fix motion-corrupted MRI scans
MIT researchers develop an algorithm combining deep learning and physics for motion correction in MRI scans of the brain.

news.mit.edu

'I hope I'm wrong': the co-founder of DeepMind on how AI threatens to reshape life as we know it
From synthetic organisms to killer drones, Mustafa Suleyman talks about the mind-blowing potential of artificial intelligence, and how we can still avoid catastrophe
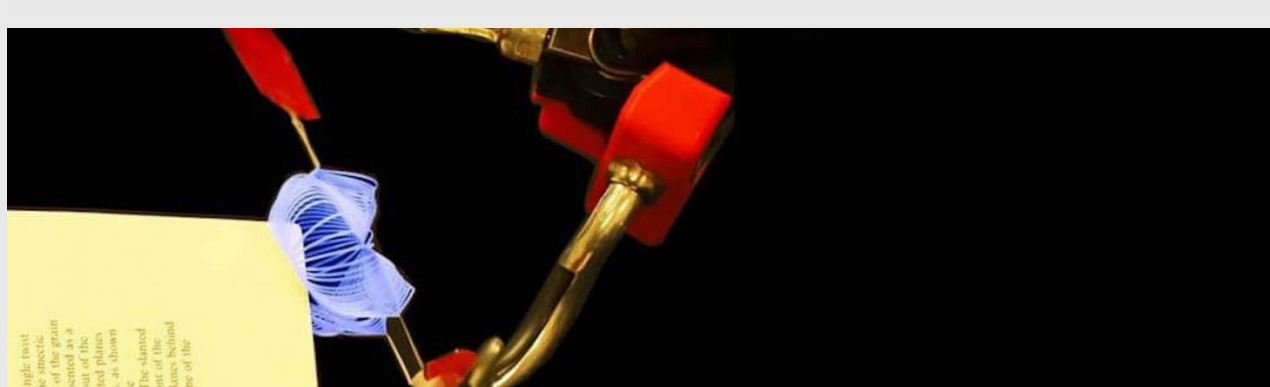
theguardian.com

INFRASTRUCTURE

This Machine Could Keep Moore's Law on Track
The next trick to tinier transistors is high-numerical-aperture EUV lithography
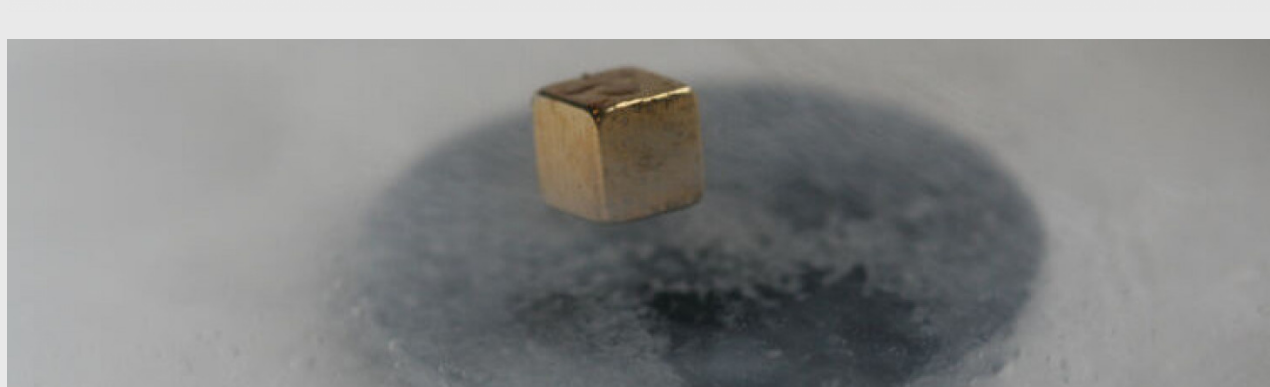
spectrum.ieee.org

ROBOTICS

Origami-inspired robot can gently turn pages and carry objects 16,000 times its weight
The kirigami-inspired design can turn pages, handle water droplets, as well as achieve a 16,000 payload-to-weight ratio.
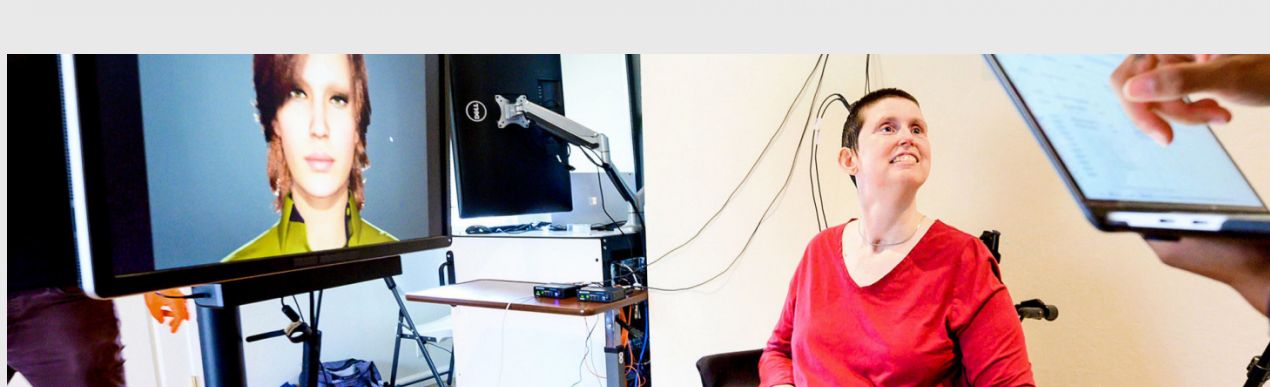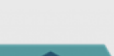
popsci.com

ADVANCED MATERIALS

The room-temperature superconductor that wasn't
We have good explanations for why a chemical called LK-99 behaved the way it did.
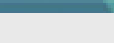
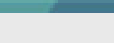arstechnica.com

ARTIFICIAL SENSING

Novel brain implant helps paralyzed woman speak using a digital avatar
Berkeley engineers explain how advances in AI could help restore natural communication

engineering.berkeley.edu

LIFE SCIENCES

The Y chromosome's genetic puzzle is finally complete
New analyses of the human Y chromosome reveal millions of new bases and different locations for the same gene in different people.
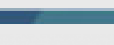
sciencenews.org

New Breakthrough Paves the Way for Extending Human Lifespan - Scientists Successfully Transfer Longevity Gene
The successful transfer of a gene that produces HMW-HA paves the way for improving the health and lifespan of humans, too.
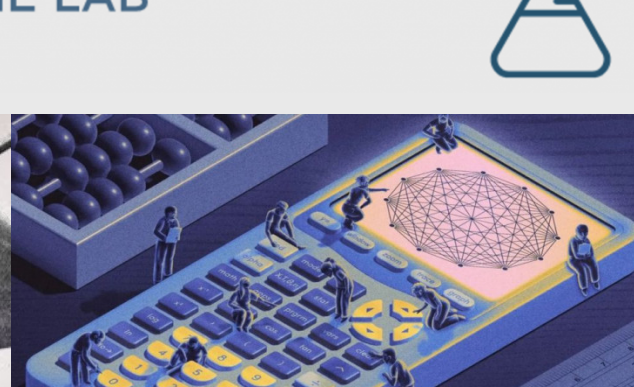
scitechdaily.com

IN THE LAB

How Math's Famous Map Theorem Was Solved With Computers
Can you fill in any map with just four colors? The so-called Four-Color theorem says that you can always do so in a way that neighboring regions never share the same color. But a proof eluded mathematicians for more than a century before Wolfgang Haken and Kenneth Appel controversially used a...
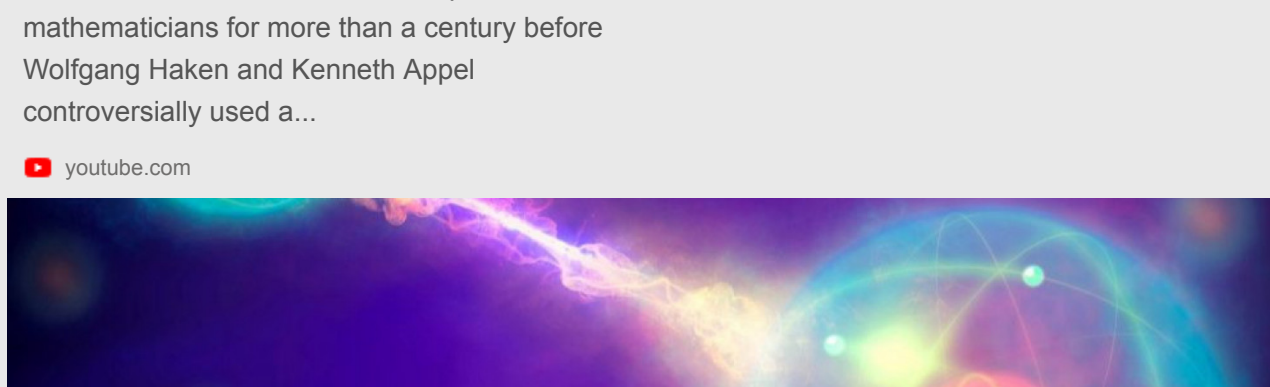
youtube.com

The Lawlessness of Large Numbers
Mathematicians can often figure out what happens as quantities grow infinitely large. What about when they get just a little bit big?
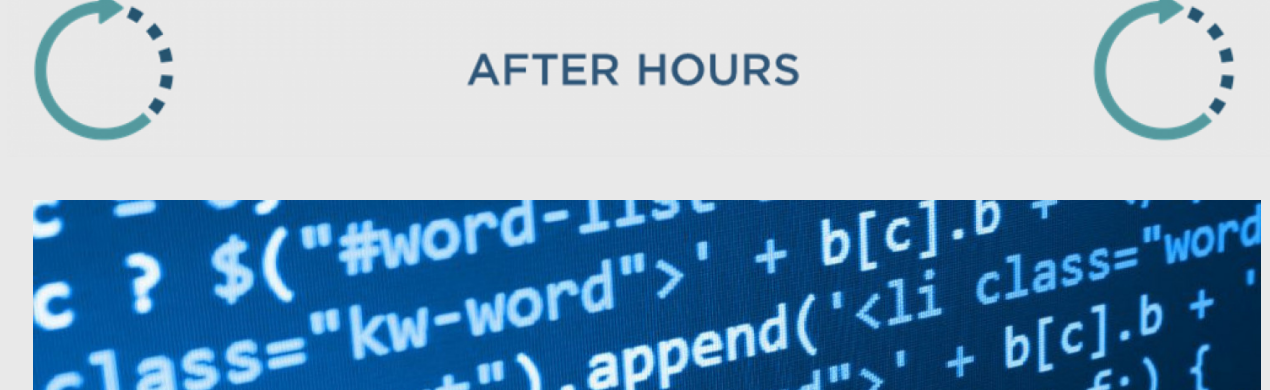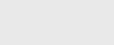
wired.com

Quantum entanglement visualized for the first time ever
The mysterious phenomenon that Einstein once described as "spooky action at a distance" was seen as a wavefunction between two entangled photons.
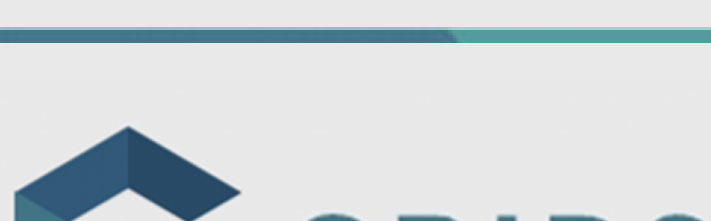
advancedsciencenews...

AFTER HOURS

The Lines of Code That Changed Everything
Apollo 11, the JPEG, and yes, even the Roomba.

slate.com

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