10 Breakthrough Technologies 2022

This list represents a glimpse into our collective future.
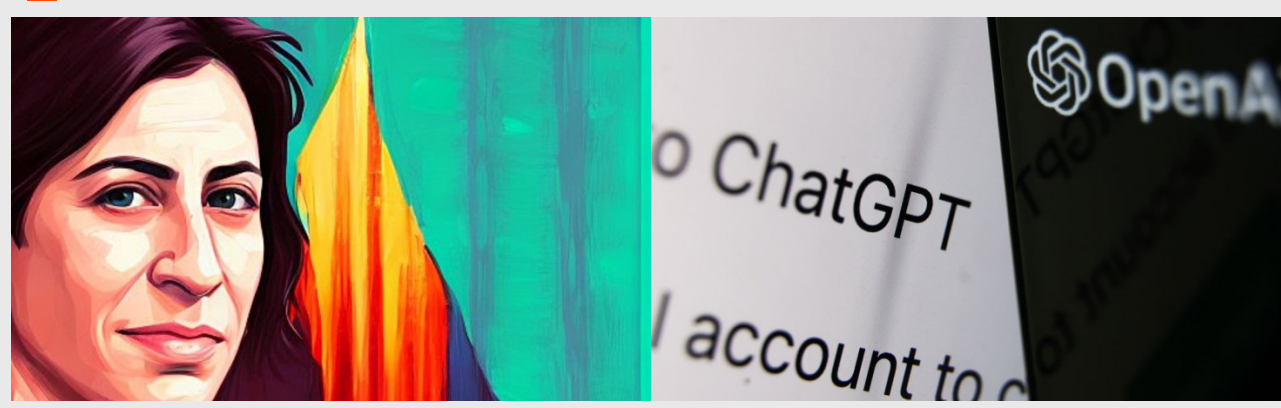
technologyreview.com

ARTIFICIAL INTELLIGENCE

The best AI at CES 2023

The best AI demos at CES 2023 target a specific use. Yet this isn't a detriment to AI's potential: on the contrary, it's precisely what makes AI so alluring this year. The field is mature enough to move beyond demos and offer tangible improvements to countless consumer devices, apps, and services.

spectrum.ieee.org

From DALL-E 2 to ChatGPT, covering AI's wild year

Check out all the on-demand sessions from the Intelligent Security Summit here . It was my first week at VentureBeat, in mid-April. OpenAI had just released the new iteration of its text-to-image generator, DALL-E 2; our lead AI writer, Kyle Wiggers, had moved to TechCrunch before I could pick his...
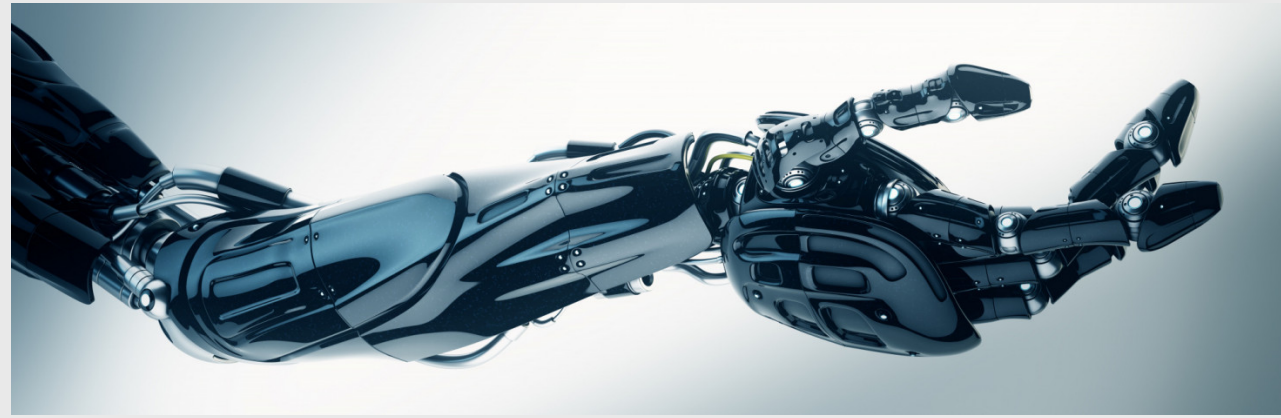
venturebeat.com

What is generative AI, and why is it suddenly everywhere?

Uncovering and explaining how our digital world is changing - and changing us. Artificial intelligence is suddenly everywhere - or at least, that's what it seems like to me. A few weeks ago, a friend mentioned in passing that his law professor had warned students not to cheat with AI on an upcoming...

vox.com

ROBOTICS

The Top 10 Robotics Stories of 2022

As Verne understood, the U.S. Civil War (during which 60,000 amputations were performed) inaugurated the modern prosthetics era in the United States, thanks to federal funding and a wave of design patents filed by entrepreneurial prosthetists.

spectrum.ieee.org

TECHNOLOGICAL INFRASTRUCTURE

The End of Programming

I came of age in the 1980s, programming personal computers such as the Commodore VIC-20 and Apple at home. Going on to study computer science (CS) in college and ultimately getting a Ph.D. at Berkeley, the bulk of my professional training was rooted in what I will call "classical" CS: programming, algorithms, data structures, systems, programming languages.

cacm.acm.org

LIFE SCIENCES

A Drug to Treat Aging May Not Be a Pipe Dream

Life expectancy in the best-performing countries has been increasing by three months per year every year since the early 1800s. Throughout most of human history, you had a roughly 50-50 chance of making it into your twenties, mainly due to deaths from infectious diseases and accidents.
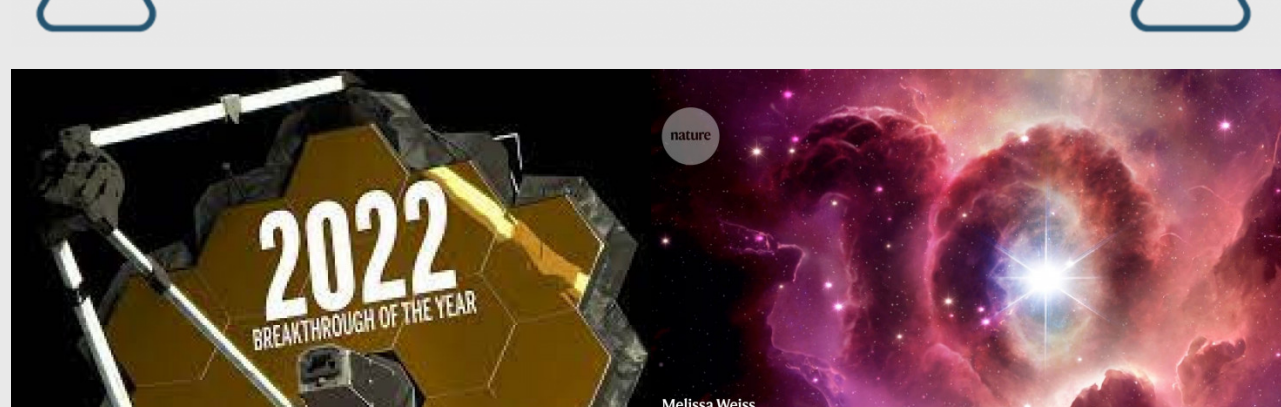
wired.com

ENERGY

What fusion's breakthrough means for clean energy

Skip to Content There's a long road ahead for commercial efforts: here's what comes next. After many decades of trying, scientists have reached a milestone in fusion research, finally running a reaction that created more energy than was put in to start it.

technologyreview.com

IN THE LAB

Science's 2022 Breakthrough of the Year

A telescope's golden eye sees the universe anew

science.org

Nature's 10

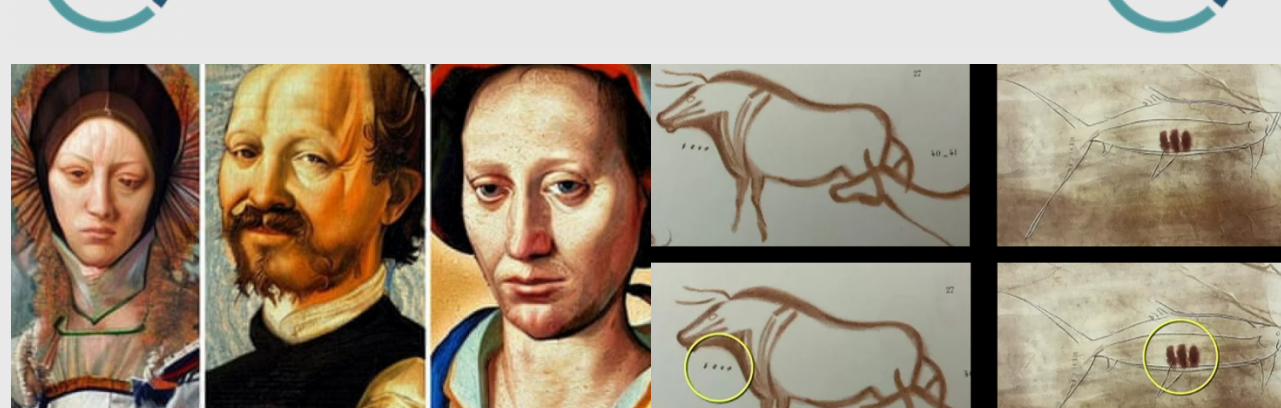One Year. Ten stories. Ten people who helped shape science in 2022

nature.com

Timeline: The Most Important Science Headlines of 2022

Scientific discoveries and technological innovation play a vital role in addressing many of the challenges and crises that we face every year. The last year may have come and gone quickly, but scientists and researchers have worked painstakingly hard to advance our knowledge within a number of...

visualcapitalist.com

AFTER HOURS

Could a robot ever recreate the aura of a Leonardo da Vinci masterpiece? It's already happening

This month, the internet was flooded with stunningly ethereal digital art portraits, thanks to the work of the latest artificial intelligence-assisted application to go viral: Lensa. Users uploaded their photographs to the app and then - for a small fee - it used AI to transform...

theguardian.com

Londoner solves 20,000-year Ice Age drawings mystery

He collaborated with a team including two professors from Durham University and one from University College London and, by working out the birth cycles of similar present-day animals, they deduced that the number of marks on the cave paintings was a record, by lunar month, of the animals' mating...

bbc.com

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