

Next Big Things in Tech 2021

Technology is the backbone of every company today. For the first time, Fast Company is recognizing the tech breakthroughs that promise to define the future of industries, from healthcare to agriculture to artificial intelligence.

FC fastcompany.com



ARTIFICIAL INTELLIGENCE



The slippery slope of using AI and deepfakes to bring history to life

Deepfakes could strengthen our engagement with history. But there are dangers to the practice, some obvious, others more subtle.

theconversation.com



NVIDIA Research's GauGAN AI Art Demo Responds to Words

GauGAN2, the latest version of NVIDIA Research's wildly popular AI painting demo, allows anyone to create photorealistic masterpieces.

blogs.nvidia.com

AI Creates Smooth Videos from Images

It was made from a simple collection of photos and transformed into a 3-dimensional model! The best thing is that it didn't even need a thousand pictures, only a few, and could create the missing information afterward!

youtu.be



LIFE SCIENCES



Could mRNA make us superhuman?

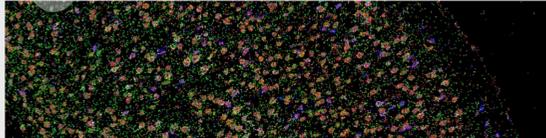
Scientists believe mRNA vaccines – which have played a crucial role in our fight against Covid-19 – could solve a number of health issues for humans.

bbc.com

A Smart Artificial Pancreas Could Conquer Diabetes

This wearable device senses blood glucose and administers insulin accordingly.

spectrum.ieee.org



An expanding molecular toolbox untangles neural circuits

Scientists are developing ways to probe the activity, function and organization of neurons in real time with increasing precision.

nature.com



ARTIFICIAL SENSING



Brain Computer Interface Turns Mental Handwriting into Text on Screen

Researchers have, for the first time, decoded the neural signals associated with writing letters, then displayed typed versions of those letters in real time...

youtu.be



ROBOTICS



Living robots made from frog cells can replicate themselves in a dish

Swarms of tiny "xenobots" can self-replicate in the lab by pushing loose cells together – the first time this form of reproduction has been seen in multicellular organisms

news scientist.com



TECHNOLOGICAL INFRASTRUCTURE



What is the future of Electronics?

A Tech Foresight article describing neuromorphic computing, a novel paradigm that could pave the way for the future of electronics

imperialtechforesight...

Welcome to 'Web3.' What's That?

Crypto enthusiasts see a future where the internet runs on blockchain-based tokens. In some spaces, these experiments are already well underway.

nytimes.com



AEROSPACE



How NASA's Webb Telescope Will Transform Our Place in the Universe

NASA's James Webb Space Telescope is the most powerful telescope in the history of humanity, and one of the most ambitious engineering projects ever attempted...

youtu.be



IN THE LAB



Exploring the beauty of pure mathematics in novel ways

Discovering new patterns in the fields of topology and representation theory with machine learning

deepmind.com



AFTER HOURS



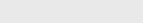
The Circles in This Illusion Actually Aren't Changing Shape or Moving at All, Sorry

The internet is never short on optical illusions – trippy gifs and animations that trick our brains and misguide our senses.

sciencealert.com



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