Neural Engineering Research

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Neural Engineering Research
This Perspective argues that technologies for the neural interfacing of robotic devices with the body that have been clinically tested in humans should be leveraged toward the creation of a new ...

Toward higher-performance bionic limbs for wider clinical use
Vagus nerve stimulation (VNS) holds promise to treat some of the most serious health conditions like Crohn's disease, rheumatoid arthritis and even obesity. To better understand stimulation intensity ...

Vagus nerve stimulation holds promise
Reports show that two universities in Ontario have taken research grants from a Chinese voice biometrics company that is owned in part by the government.

China still finding outstretched Canadian palms when it comes to biometrics research
Lexical substitution is essentially the process that a thesaurus helps humans to perform: replacing words in a sentence without changing the meaning. Now, ...

Researchers Evaluate Neural Language Models, Find XLNet Excellent
A researcher at the University of Sydney is developing a printable device that acts like a retina and could one day restore sight to blind people. Dr Matthew Griffith, from the Australian Centre for ...

Printed Electronics World
Dr. Stephanie Willerth is a Full Professor in Biomedical Engineering at the University of Victoria and the Chief Executive Officer of Axolotl Biosciences. She is our Women in 3D Printing Guest #278!

Stephanie Willerth: "My Team Has Made Amazing Progress In Bioprinting"
Blackrock Neurotech, the world's leading brain-computer interface (BCI) technology innovator and manufacturer, announced recently published research in Science Magazine by the University ...

Blackrock Neurotech Partners With The University Of Pittsburgh To Improve Robotic Arm Control
Researchers from Zurich have developed a compact, energy-efficient device made from artificial neurons that is capable of decoding brainwaves. The chip uses data recorded from the brainwaves of ...

Artificial neurons recognize biosignals in real time
Though neuromorphic computing is still in the early stage, it promises a new way to make AI devices smarter, smaller, and more efficient by incorporating design elements from the study of how human ...

ABR pioneers in brain-inspired AI to make devices smarter
New research suggests that a cognitive reappraisal strategy can help math anxious individuals regulate their negative emotions surrounding math. The study ...

Brain imaging study finds that teaching math anxious students to reframe their anxieties improves their performance
A brain–computer interface decodes a paralysed participant's attempted handwriting movements, translating neural activity into on-screen text in real-time ...

'Mental handwriting': brain–computer interface turns neural signals into text
The 15-year-old has also worked on an AI-based sign language detector, a mental health companion app, & diabetic retinopathy diagnostic tool.

How This 15-Year-Old Created A Research Career In Machine Learning
Current neural network algorithms produce impressive results that help solve an incredible number of problems. However, the electronic devices used to run these algorithms still require too much ...

Neuromorphic chip detects complex biosignals in real time
Assistant Professor Yu Huang is the lead researcher on this grant and will receive up to $320,000 over the next four years.

Space on the Brain: Utah State Engineers Awarded Competitive NASA Grant
Rice University is tackling bioimplants by using magnetics. With DARPA's support on two out of three projects, what could the future of bioimplants look like?

Rice University Charges Into the Future with Magnetics and Bioimplants
Numenta, the Silicon Valley artificial intelligence firm founded by Palm Pilot creator Jeff Hawkins, has been able to achieve a dramatic speed up in conventional neural networks using Xilinx ...

Xilinx and Numenta claim dramatic speed-up of neural nets versus Nvidia GPUs
Three students in the Georgia Tec (ECE) have received funding through the National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP). The fellowships, which provide a three-year ...

Three Students Awarded NSF Graduate Research Fellowships
It's a well-established fact that a guitarist's acumen can be accurately gauged by the size of their pedal board- the more stompboxes, the better the player. Why have one box that can ...

Neural Networks Emulate Any Guitar Pedal For $120
Four Carnegie Mellon University College of Engineering faculty members have been awarded CAREER awards by the National Science Foundation (NSF). The awards, which are part of the Faculty Early Career ...

NSF 2021 CAREER College of Engineering Awardees Named
Image Philip S. Yu, Distinguished Professor and the Wexler Chair in Information Technology at the Department of Computer Science, University ...

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