Neural Engineering Research

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Neural Engineering Research
Researchers from Israel have developed a neural network capable of generating 'master' faces – facial images that are each capable of impersonating multiple IDs. The work suggests that it's possible ...

'Master Faces' That Can Bypass Over 40% Of Facial ID Authentication Systems
Machine Learning (ML), Automatic Speech Recognition (ASR), Neural Machine Translation (NMT), Text-to-Speech (TTS) and Natural Language Processing / Understanding (NLP/U) technologies, today announced ...

Distinguished Research Scientist, Dr. Zoltán Tüske, to Join AppTek and Drive New Innovations in Automatic Speech Recognition
The discipline of AI most often mentioned these days is deep learning (DL) along with its many incarnations implemented with deep neural networks. DL also is a rapidly accelerating area of research ...

Best Deep Learning Research of 2021 So Far
This week, at the 38th International Conference on Machine Learning (ICML 21), researchers at the NYU Center for Cyber Security at the NYU Tandon School of Engineering are revealing new insights into ...

Team streamlines neural networks to be more adept at computing on encrypted data
To preserve historical accounts of humanity, texts have been kept safely stored away in libraries and monasteries all over the world. A large amount of this material has never been read. Now, ...

AI Used To Unlock Secrets of Ancient Texts
AppTek, a company focused on artificial intelligence (AI), machine learning (ML), automatic speech recognition (ASR), neural machine translation (NMT), text-to-speech (TTS) and natural language ...

Former IBM Research AI Scientist, Dr. Zoltán Tüske, to Join AppTek
The Abbey Library of St. Gall in Switzerland is home to approximately 160,000 volumes of literary and historical manuscripts dating back to the eighth century—all of which are written by hand, on ...

Researchers use AI to unlock the secrets of ancient texts
Researchers identify redundant neural networks in jellyfish-like, freshwater hydra. The work is a step toward modeling how internal states and external stimuli shape the behavior of an organism with a ...

How headless hydra feel, react to prodding
Regeneron Pharmaceuticals, Inc. (NASDAQ: REGN) today announced winners of the ninth annual Regeneron Prize for Creative Innovation, a competition designed to recognize creativity and independent ...

Regeneron Announces the 2021 Winners of the Regeneron Prize for Creative Innovation
IOP Publishing is pleased to announce the publication of the first issue of Neuromorphic Computing and Engineering (NCE), a new, multidisciplinary, ...

First papers publish in Neuromorphic Computing and Engineering – IOP Publishing's new open access journal
Electrical engineers at Duke University have devised a new method for solving difficult design problems with many potential solutions in a large design space using machine learning. Dubbed the "neural ...

Machine-learning method to find optimal solutions in extremely large design spaces
Researchers are studying ways to improve the vision of autonomous cars operating in bad weather conditions of rain, snow and fog.

Researchers Working to Improve Autonomous Vehicle Driving Vision in the Rain
Neuroscientists have released the most detailed 3D map of the mammalian brain ever made, created from an animal whose brain architecture is very similar to our own—the mouse. The map and underlying ...

This is all the connections in a bit of mouse brain the size of a grain of sand
A research team headed up at the University of Texas Health ... They describe their findings in the Journal of Neural Engineering. "Traditional therapy usually involves two or three physical ...

How can powered exoskeletons restore walking ability after stroke?
Investment money is flooding into the development of new AI processors for the data center, but the problems here are unique, the results are unpredictable, and the competition has deep pockets and ...

Challenges For New AI Processor Architectures
Papers from CS researchers have been accepted to the 38th International Conference on Machine Learning (ICML 2021). Associate Professor Daniel …
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13 Research Papers Accepted to ICML 2021
The research appears in the latest edition of IEEE Transactions on Neural Systems and Rehabilitation Engineering. The paper is titled: "Sharpened and Mechanically Durable Carbon Fiber Electrode ...

Carbon fiber brain-implant electrodes show promise in animal study
Researchers are rethinking basic functions that drive the ability of neural networks to make inferences on encrypted data. This week, at the 38th International Conference on Machine Learning (ICML ...

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