

## Neural Engineering Research

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### Neural Engineering Research

Penn State has a new cross-disciplinary program to train graduate students interested in the complex landscape of the human brain, supported by a \$1.5 million grant from the National Institutes of ...

### National Institutes of Health funds neural engineering graduate training program

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### Penn State's neural engineering training program receives support from NIH

Researchers have created a neural network that can help tweak semiconductor crystals in a controlled fashion to achieve superior properties for electronics. This enables a new direction of development ...

### Putting a strain on semiconductors for next-gen chips

"This research opens several avenues for future work. As neuroscientists, we are interested in developing a more detailed understanding of neural signaling pathways in texture discrimination ...

### The rat's whiskers: Multidisciplinary research reveals how we sense texture

Innatera, the pioneering Dutch neuromorphic processor company, announced the appointment of Prof. Alberto L. Sangiovanni-Vincentelli as Chairman of its Board of Directors.

### Neuromorphic processor leader Innatera appoints Prof. Alberto Sangiovanni-Vincentelli Chairman of Board

The chaotically moving objects dense clusters digital twin is being developed by students from NUST MISIS, ITMO and MIPT to navigate robots. It is going to be a web service using graph neural networks ...

### Neural network to study crowd physics for training urban robots

Neural tube defects are among the most common ... ethnic backgrounds and genders with this interdisciplinary bioengineering research, and encourage them to pursue science and engineering careers. This ...

### Biomechanical Regulation in Human Neural Induction

The July 2021 issue of IEEE/CAA Journal of Automatica Sinica features six articles that showcase the potential of machine learning in its various forms. The applications described in the studies range ...

### Smarter by the minute: Myriad of applications unlocked by artificial intelligence

A team of researchers has submitted the system to the Cough Sound Track of the Diagnosing COVID-19 using Acoustics (DiCOVA) Challenge. The covid-19 crisis has tested healthcare systems throughout the ...

### Detection of COVID-19 via Automatic Artificial Intelligence Cough Analysis

Their work was recently published in the research journal Molecular ... could put brain tumors to sleep: Engineering researchers discover and explore new neural stem cell state that gives insight ...

### Sleeper cells: Newly discovered stem cell resting phase could put brain tumors to sleep

This month has seen some innovative advances with Alzheimer ' s research, representing an important area of research as the global population continues to age. Digital Journal loo ...

### Advances in Alzheimer ' s disease research

Even the mundane act of swallowing requires a well-coordinated dance of more than 30 muscles of the mouth. The loss of function of even one of these, ...

### Research lays groundwork for restoring lost oral functions with pacemaker-like devices

A new mouse study showed how one dose of psilocybin led to an immediate, long-lasting increase in the number and strength of connections between neurons.

### Psychedelic Compound in " Magic Mushrooms " Prompts Growth of Neural Connections Lost in Depression

Participation in weekly dance training classes "drastically" reduced the expected decline in motor function and improved quality of life in a study of patients with mild to moderate Parkinson's ...

Dance Training 'Drastically' Reduces Parkinson's Progression, Eases Symptoms

The patent covers a unique approach to applying human-induced Pluripotent Stem Cells (iPSCs) as a powerful tool to illuminate the biology of complex human cell types such as those of the central ...

Vyant Bio Announces Issuance of Key Patent for High-Throughput Optical Assay of Human Mixed ...

New findings suggest it may be possible to develop treatments for people who have different disorders with common behavioral symptoms.

Cognitive Impairments in Autism and Schizophrenia Share Similar Neural Mechanism

Mandi, working together with their counterparts at the Central Potato Research Institute (CPR I) in Shimla, have developed an AI solution that can detect diseases of the tuber crop simply by examining ...

IIT Mandi research yields an app for detecting potato blight

How we sense texture has long been a mystery. It is known that nerves attached to the fingertip skin are responsible for sensing different surfaces, ...

Rat 's whiskers: Multidisciplinary research reveals how we sense texture

Fulton Schools of Engineering at Arizona State University, and Samantha O'Connor, a biomedical engineering doctoral student in the Plaisier Lab, are leading research ... in the Neural GO or ...

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