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Spatial Temporal Patterns For Action

The hippocampus is critical to remembering the flow of events in distinct experiences and, in doing so, bridges temporal gaps between discontinuous events. Here we report a robust hippocampal ...

Hippocampal “time cells” bridge the gap in memory for discontinuous events

The International Cartographic Association and the United Nations recently published the book Mapping for a sustainable world. The objective was to ...

Mapping for a Sustainable World - Beware of Defaults and Pitfalls

In the past decade especially, advanced technologies for capturing a snapshot of the brain in action have confirmed ... in the brain's left temporal lobe. Patients with strokes or other damage ...

Beyond the Brain

Because light does not interfere with normal brain function and can be targeted with exquisite spatial and temporal precision ... hippocampal neurons allowed action potentials to be triggered ...

Optogenetics — The Might of Light

In Trinidad and Tobago, hotspot analysis enabled smarter police patrols and a 50% drop in murders internationally, spatial-temporal crime analysis has revealed crime hotspots and temporal patterns ...

Better police use of data could cut South Africa's crime

We are living in a climate crisis. Managing our soil better will help control carbon emissions and ultimately reduce global warming.

Expert Opinion: Proper Soil Management Can Control Carbon Emissions

Paul Parker, Acting Assistant ProfessorStatisticsPaul Parker is interested in computationally efficient modern methods to model dependent data including spatial, temporal, spatio-temporal ...

UC Santa Cruz: Stellar New Faculty Strengthen Campus Research, Teaching

Its temporal dimension necessitates paying attention to intergenerational climate justice and underlines the need for protecting the environmental rights of our children by taking climate action. The ...

Experts: Why does 'climate justice' matter?

It's easy to blame climate change and lack of collective global action for increasing intensity and frequency of disasters, but what about the manner in which the region's topography has been ...

Uttarakhand floods: Easy to point finger at climate change, but humanity is equally to blame

Eventually the hotspot volcanoes become extinct, gradually subside, and are eroded by wave action. Over geologic time ... Islands), it does not give an explanation for the temporal and spatial pattern ...

What is a hotspot volcano?

Theta-gamma network oscillations are thought to represent key reference signals for information processing in neuronal ensembles, but the underlying synaptic mechanisms remain unclear. To address this ...

Theta-Gamma-Modulated Synaptic Currents in Hippocampal Granule Cells In Vivo Define a Mechanism for Network Oscillations

With an increase in global warming, we are expecting more disturbances in weather patterns ... with special reference to the spatial and temporal dynamics of soil carbon, is investigated in ...

Carbon - the connection between the atmosphere, soil, and plants

Next-generation AI systems might need to learn from a different kind of data — videos that show the world from the center of the action ... s activity, spatial and temporal labels on objects ...

Facebook introduces dataset and benchmarks to make AI more 'egocentric'

Mercury in arctic tundra snowpack: temporal and spatial concentration patterns and trace-gas exchanges ... Combining role-play with interactive simulation to motivate informed climate action: Evidence ...

Environmental, Earth & Atmospheric Research

To identify those species and communities in need of conservation action, I study the response of temperate ... Condor recovery in northern California: assessing spatial and temporal patterns of ...

Jared Wolfe

Analysis of how the spatial and temporal patterns of fire and their bioclimatic and anthropogenic drivers vary across the Amazon rainforest in El Niño and non-El Niño years ...

Data Science at PeerJ

It studied the alterations in spatial and temporal trends in HWs and SHWs between ... The research found a shift in the pattern of heat waves events, with more occurrences taking place in north ...