TEXAS A&M UNIVERSITY
Department of Electrical & Computer Engineering

TRANSFORMING ENGINEERING EDUCATION

ENERGY & POWER GROUP SEMINAR

Weather-Informed Bio-Inspired Prediction Models for Enhancing Grid Stability

Abstract

As renewable energy sources become more integrated into the power grid and extreme weather events linked to global warming continue to rise, there is a growing need for effective methods to enhance grid stability. This research proposes a novel approach inspired by the biological brain, using models to predict renewable energy generation and load patterns, aiding in load balancing and improving grid resilience.

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Friday, November 22
11:30 am
241 ZACH

Biography

Thomas Chen is an undergraduate studying electrical engineering, with minors in computer science and biomedical engineering. His research interests focus on the interdisciplinary study of brain-machine interfaces.

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