



TEXAS A&M UNIVERSITY

Department of Electrical
& Computer Engineering

Friday, Nov. 5, 2021 | 11:30 – 11:50 p.m. Central

Meeting Location: ETB 1020

Visualization Strategies to Enhance Situational Awareness in Large-Scale Electric Grid Studies

Abstract

The planning, operation, and analysis of large-scale electric grids rely on a wide array of power system studies and simulations. In order to appropriately make use of the results of these studies, the user must demonstrate situational awareness to interpret the behavior of the system. Situational awareness refers to a user's knowledge of what is going on and may be conceptualized on three levels: perception, comprehension, and projection. In other words, the user should understand the results of the simulations as well as the significance of these results within the context of the study. This presentation will discuss visualization strategies which may be leveraged to provide an enhanced level of situational awareness to engineers, students, and researchers for a variety of applications.



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Jessica Wert received a B.S. degree in Engineering Sciences from Smith College, Northampton, MA in 2018. She is currently pursuing a Ph.D. degree in Electrical and Computer Engineering at Texas A&M University, College Station, TX. Jessica is a member of Dr. Overbye's research lab and has interest in large-scale system modeling and analysis, visualization, situational awareness, and the study of hypothetical future grid scenarios including coupled infrastructure, weather events, and high-impact low-frequency events. Over the last four years, she has also gained industry experience through three internships with ISO New England and ERCOT.