

Energy and Power Group

Weekly Seminar Series

Friday, October 11th, 2019, 9:10 a.m. – 10:10 a.m., ETB 1020

Wide-Area Electric Grid Visualization Using Pseudo-Geographic Mosaic Displays



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Abstract

This presentation introduces a new technique for wide-area visualization of information about electric power grids known as a pseudo-geographic mosaic displays (PGMDs). The PGMD approach uses a dynamically created geographic data view (GDV) objects to show information about the attributes of different electric grid objects, and then arranges them on the screen to maximize the used display space. The PGMD algorithm will be presented and a design approaches to maximize their usability will be discussed. Results are presented for several largescale electric grids.

Jessica Wert is a second year PhD student and Graduate Research Assistant under the mentorship of Dr. Thomas Overbye at Texas A&M University. Her research interests include power system modeling, simulation, visualization, and system resilience. In 2018, she received a Bachelor of Science with High Honors in Engineering Sciences from Smith College. She is the Logistics Chair for the 2020 IEEE Texas Power and Energy Conference (TPEC) and a Junior Officer of the TAMU IEEE PES-IAS-PELS Joint Student Chapter.