

*Enhancing Power System Innovation through the Use of
Synthetic Electric Grids*

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Abstract

In order to strengthen power system research, education, and ultimately innovation, it is crucial for our research community to be able to engage in work that adheres to the scientific principle of reproducibility of results and free exchange of information. However, often access to information about actual electric grids is restricted because of confidentiality requirements. To address this issue, this talk discusses the creation, validation and application for research, education, and ultimately tech transfer innovation of large-scale, geographically-based, realistic synthetic electric grids.

Biography



Thomas J. Overbye is a TEES Distinguished Research Professor in Electrical and Computer Engineering at Texas A&M University (TAMU). Prior to joining TAMU in January 2017 he was the Fox Family Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign (UIUC). He received his BS, MS, and Ph.D. degrees in Electrical Engineering from the University of Wisconsin-Madison. He was employed with Madison Gas and Electric Company from 1983 to 1991. Dr. Overbye is the original developer of PowerWorld Simulator and a co-founder of PowerWorld Corporation. He is also the recipient of the Alexander Schwarzkopf Prize for Technological Innovation, a University of Wisconsin-Madison College of Engineering Distinguished Achievement Award, the IEEE Power and Energy Society Outstanding Power Engineering Educator Award and is a member of the US National Academy of Engineering.