ENGINEERING ANALYSIS TASK TEAM



Excellent Presentations!

- Online Calibration of Phasor Measurement Unit Using Densitybased Spatial Clustering – Di Shi, Zhiwei Wang (GEIRI North America Inc), Xiao Lui, Jianyu Luo, & Chuniei Xu (State Grid Jiangsu Electric Power Company)
- Selection of Reference Node and Angular Baselining Using Synchrophasor Weasurements for Real Time Operation – Srinivas Chitturi, Sunil K. Patil, Chandan Kumar, Rajkumar Aumasula, Pradeep Kumar Sanodiya, & Vivek Pandey (POSOCO)
- Machine Learning with PMU Data Daniel Bienstock, Mauro Escobar, Apurv Shukla (Columbia), Michael Chertkov, Sidhant Misra, Marc Vuffray, & Seyoung Yun (LANL)
- Failure Diagnosis and Cyber Intrusion Detection in Transmission Protection System Assets Using Synchrophasor Data – Anurag Srivastava B. Cui & P Banerjee (WSU)

EATT WHITE PAPER -

DATA MINING TECHNIQUES AND TOOLS FOR SYNCHROPHASOR DATA

The purpose of this paper is to:

- give a high level overview of data mining,
- review how data mining has been used in industry,
- present common big data architecture and software languages and tools that facilitate data mining,
- provide use cases that show how data mining has been applied in the power grid community, and
- discuss possible future ways to apply data mining to the power grid and more specifically PMU data.

Goal: Draft by next NASPI meeting