

Synchrophasor Data Analytics for Anomaly Detection, Classification, and Localization in the Electric Grid

Availability of synchrophasors data enable new power grid monitoring and control strategies such as early alarm and proactive control. Data in power grids are mostly unexploited in discovering knowledge and new solutions for critical power grid applications. Availability of additional sensor data brings its own challenges, including data anomalies, real time processing, and data management. This talk will focus on real-time synchrophasor data analytics and associated challenges and opportunities to enhance situational awareness for the power grid through the anomaly and event detection, classification, localization, and root cause analytics.