Paris Session 2022



Benefits & Challenges with Acceptance of Intelligent IoT (AI/ML) in Power Substation Environment

Study Committee B5, PS 3

Q3.1 What are the benefits of digital solutions like IoT-sensors, machine learning, artificial intelligence, drones, robots etc. for substation life cycle from planning to maintenance? Which measures are necessary to increase the acceptance of intelligent IoT-based power equipment in substations?

Dr. Mital Kanabar (CA)





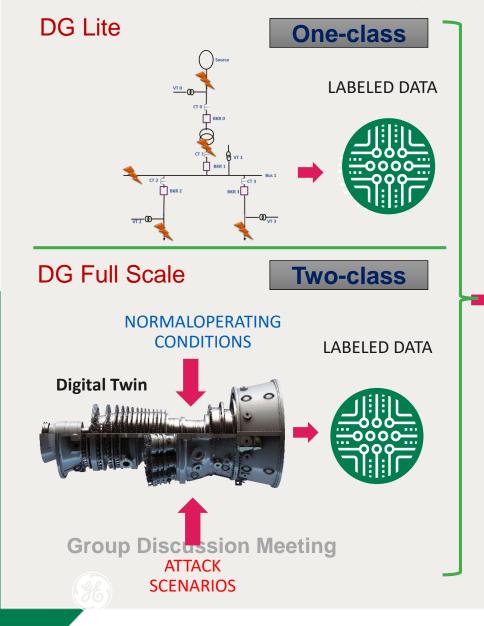
Integrated Transformer Monitoring - Chemical, Electrical and Thermal



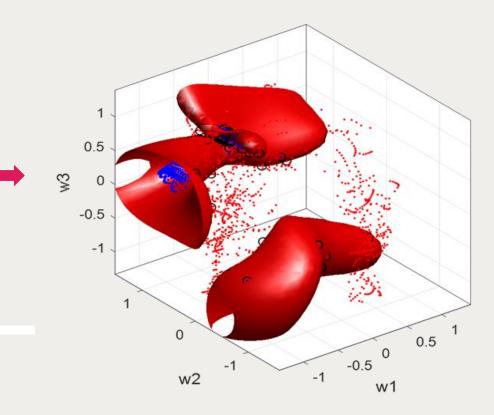
Group Discussion Meeting

Reference: CIGRE 2020 paper – "An innovative solution to assess the Reliability of Transformers by Integrated Transformer Health Monitoring"

AI/ML + Physical for Cyber-physical Digital Ghost (DG)



NORMAL (BLUE) VS. ABNORMAL (RED)



FEATURE

CALCULATION & BOUNDARY CONSTRUCTION