

Advance Metering Infrastructure Data Analytics in Smart Grid

Main Topics:

1. Introduction to Smart Grid
2. Advance metering Infrastructure (AMI)
3. Demand Response (DR)
4. Data Analytics Methods
5. Case Study: AMI Data Analytics for DR

Short Bio

Alireza Fereidunian is an Assistant Professor at the K. N. Toosi University of Technology, Tehran, Iran. He received his PhD and MSc from University of Tehran, in 2009 and 1997, where he is a Post-Doctoral Research Associate now. Alireza has been working as an electrical and automation engineer in energy distribution and industrial automation sectors, as well as working as a research scientist at Imperial College London and Aalto University (Helsinki U of Tech).

His research interests include Smart Grid, high-reliability energy distribution systems (automation and asset management), smart home, and application of data analytics to power systems. Moreover, he works in complex systems, systems reliability and human-automation interactions areas. He has developed essential ideas on Adaptive Autonomy Expert System (AAES) and Healer Reinforcement for Self-Healing in Smart Grid. Dr. Fereidunian is a member of IEEE (PES), INCOSE and ISOSG.