Distinguish Lecturer Program
IEEE Instrumentation & Measurement Society (IMS)
March 01, 2019

Organized by:

IEEE Joint CSS-IMS Chapter, Kolkata

In collaboration with:

Dept. of Electrical Engineering,
Indian Institute of Engineering Science and Technology, Shibpur, West Bengal

Talk Title: High Reporting Rate Measurements for Smart(er) Grids

Professor Mihaela Albu

(*Dept. of Electrical Engineering, Politehnica University of Bucharest, Romania*)

The talk will address:

- **The measurement paradigm in power systems;**
  - System inertia, real time and steady-state
  - Instrument transformers; limited knowledge on the infrastructure
  - PQ, SCADA and PMUs
  - Power system state estimation; WAMCS
  - IEDs, PMUs, microPMUs
  - Time-stamped versus synchronized measurements
- **Measurement channel quality and models for energy transfer**
  - Voltage and frequency variability; rate of change of frequency
  - The steady-state signal and rapid voltage changes (RVC); rms-values reported with 100 frames/s;
  - Measurement data aggregation; filtering properties
  - Time- aggregation algorithms in the PQ framework
  - Statistical approaches;
- **Applications and challenges**
  - Communication channel requirements; delay assessment in WAMCS
  - Smart metering with high reporting rate (1s)
  - The presentation provides an overview of these techniques, with examples from worldwide measurement solutions for smart grids deployment.

Enquiry: Neelbrata Roy, Research Scholar, IIEST, M: 09073022184; email: cssimskolkata@gmail.com

Updates will be available at :
http://ewh.ieee.org/r10/calcutta/css_ims/index.html.

Registration is mandatory, for online registration, use the link:
https://goo.gl/forms/6pg1Me1wXXvZEPfL2

Venue: **Seminar Hall, Electrical Engineering, Time : 3:00-5:00 pm**
Indian Institute of Engineering Science and Technology,
Shibpur, Botanic Garden, Howrah - 711 103, West Bengal. India.