IEEE Transactions on Industrial Informatics

CALL FOR PAPERS
for Special Section on

Smart Meters in the Smart Grid of the Future

The Theme: Distribution networks are decisively changing towards the SMART GRID paradigm, with high renewables' deployments and an increasing SMART METER presence in the network, for each consumer or producer. The EU aims to replace at least 80% of electricity meters with smart meters by 2020 wherever it is cost-effective to do so. This is a unique opportunity to include in those meters, besides their traditional billing functionality, new advanced functions. These new advanced functionalities can aim:Costumers; Grid and network support; Commercial issues of energy supply; Security and privacy and Distributed generation.

Also the Unbundled Smart Meter (USM) concept, based on commercially existing smart meters, enabling end-users to directly access its data and services, will promote the development of third party added value services, leading to deployment cost reductions and real-time support for: Smart grid (delivering RTU-similar real-time data in a traditional or Synchro-SCADA mode); Power quality (allowing essential PQ assessment on continuity of supply and on voltage level); Energy services (supporting energy records load profiles down to one minute resolution combined with appropriate recorded events, in order to properly record services such as demand response); Dynamic energy markets (allowing real-time interaction between the market and the prosumer); Local production and storage control (allowing to host specialized software agents which can control and optimize use of these local resources); Security and privacy; Smart meters and intelligent substations

Topics include, but are not limited to, the following research topics:

- Impact of Smart Meters
- Success Smart Meters case studies
- Unbundled Smart Meters developments
- New functionalities for Smart Meters
- Smart meters and intelligent substations
- Smart meters and Smart Transformers

Manuscript Preparation and Submission
Follow the guidelines in "Information for Authors" in the IEEE Transaction on Industrial Informatics http://www.ieee-ies.org/pubs/transactions-on-industrial-informatics . Please submit your manuscript in electronic form through Manuscript Central web site: https://mc.manuscriptcentral.com/tii . On the submitting page #1 in popup menu of manuscript type, select: SS on **Smart Meters in the Smart Grid of the Future**

Submissions to this Special Section must represent original material that has been neither submitted to, nor published in, any other journal. Regular manuscript length is 8 pages.

Note: The recommended papers for the section are subject to final approval by the Editor-in-Chief. Some papers may be published outside the special section, at the EIC discretion.

Timetable: Deadline for manuscript submissions **September 30, 2020**
Expected publication date (tentative) March 2021

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