**The 38th Annual Conference of the
IEEE Industrial Electronics Society**

IECON' 2012

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Le génie pour l'industrie

Proposal for IECON 2012 Special Session
Send your proposal to the SS chairs

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Special Session on: **{Advanced Techniques for Identification and Classification in Smart Metering}**

Special Session Organizers (names and contact emails):
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Technical Outline of the Session (50 words) and Topics:

Intelligent Metering is part of Smart-Meter Systems, which are included in the Smart-Grid. To find out the single signals from the superposition of the load profile of appliances (e.g. in residential or industrial buildings), detection- and classification-algorithms are used. This special session will be the opportunity to evaluate the last improvements in Smart-Meter Systems.

Interesting topics are, but not limited to:

- Advanced methods for detection and classification of appliances using smart-meter
- Modeling of electrical appliances
- Methods for the disaggregation (artificial neural networks, RBF, SVM, etc.)
- Advanced methods for electrical disturbances identification