

# International Workshop on Integrating Communications, Control, Computing Technologies for Smart Grid (ICT4SG)

## Chairs

Dr Hongjian Sun, Durham University, UK  
Prof. Wei-Yu Chiu, Yuan Ze University, Taiwan  
Mr Bill Lichtensteiger, Landis+Gyr, Switzerland  
Prof. Husheng Li, University of Tennessee, USA  
Prof. John S. Thompson, Edinburgh University, UK

## Important Dates

- Paper Submission Deadline: **17 December 2014**
- Paper Acceptance Notices: 26 January 2015
- Camera Ready Submission: 16 February 2015.

## Paper Submission

The ICT4SG workshop will be held in conjunction with IEEE VTC 2015 Spring (the 2015 IEEE 81st Vehicular Technology Conference <http://www.ieeevtc.org/vtc2015spring/>) in Glasgow, UK. All submitted papers should be written in English following the standard IEEE conference template with a maximum paper length of FIVE pages. Up to 2 additional pages are allowed with the purchase of additional page charges in the amount of 100 USD per additional page at the time of registration and final paper submission. Please note the workshop accepts only novel, previously unpublished papers.

All paper submissions will be through the IEEE 81st Vehicular Technology Conference workshop submissions page on Trackchair: <https://vtc2015sp-wksp.trackchair.com>.

## Contact Us

The workshop website:  
<https://www.dur.ac.uk/ecs/ict4sg/>.

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## Workshop Scope

The electricity grid is facing four major challenges: increasing electricity demand, ageing grid infrastructure, ever-increasing penetration of renewables, and significant uptake of electric vehicles. To address these challenges, it is of vital importance to integrate control, communication, and computing technologies into one of the most complicated systems on earth, the electricity grid, for building a self-directed and self-healing smart grid.

The realization of the smart grid will require collaborative and sustained efforts from the Societies of Power Electronics, Power & Energy, Control, Communication, and Computing over the years to come. This workshop aims to facilitate this sustained effort and enhance international collaborations by disseminating cutting-edge research results spanning multiple disciplines. Participants will be able to share perspectives and the newest findings from research and ongoing projects relevant to smart grid. This will include a variety of smart grid applications and technologies, such as smart metering, demand side management, advanced control, communication, and computing technologies. Potential topics include, but are not limited to:

- Smart grid communication and networking
- Energy harvesting communications
- Machine-to-machine communications
- Internet of Things
- Cyber power system modeling
- Demand side management and demand response
- Smart electricity pricing
- Renewable energy integration
- Smart metering (or advanced metering system)
- Home energy management
- Electric vehicle management
- Wireless power transfer
- Smart grid cyber security
- Smart grid privacy
- Smart grid optimization
- Distributed and autonomous control
- Big data for smart grid
- Cloud computing.