

IRENE Workshop on Tools for Smart Grid Design and Assessment



This workshop is part of the 2nd EAI International Conference on Smart Grid Inspired Future Technologies (SmartGift 2017), which will be held in London, UK from 27 to 28 March 2017.

Workshop Chairs

Andrea Ceccarelli - University of Florence, Italy

Tony Clarke - Ethos, UK

Workshop Scope

Power grids are the most critical of the urban infrastructures as all infrastructures rely on the availability of electricity. The introduction of Smart Grid technologies into urban power grids comes with opportunities as well as significant challenges. The opportunities are in the optimized control of electricity grids and the easier integration of decentralized generation in urban areas. On the other hand, the required large-scale integration of ICT into electricity grids is increasing their complexity, and causing new risks of cyber-attacks.

Tools are fundamental to plan, design and assess the Smart Grid e.g., to manage its complexity, identify and mitigate threats, prevent power outage, assess its resilience. The *IRENE Workshop on Tools for Smart Grid Design and Assessment* is specifically intended to attract submissions on tools for Smart Grid design, planning, operation, management and assessment. Demo contributions are particularly welcomed. Further, given the relevance of reference data to exercise and tests tools, contributions on datasets are encouraged.

This workshop is the final event of the project JPI Urban Europe IRENE. The program will include sessions to present the final results of the project, and especially the devised methodology for collaborative city planning and the related tools for risk assessment, energy prediction and energy management.

Paper Submissions

Papers should be submitted through <https://easychair.org/conferences/?conf=irene2017> and comply with the Springer format (see [Author's kit section](#)). Full papers should be up to 10 pages in length. Short papers should be up to 6 pages in length.

Paper Publications

Accepted papers will be published by Springer following the same rules of SmartGift 2017 Call for papers.

Important Dates

Full Paper Submission deadline	8 January 2017
Short Papers Submission deadline	8 January 2017
Notification deadline	1 February 2017
Camera-ready deadline	13 February 2017

Workshop date: 27 or 28 March 2017, joint to SmartGift 2017 (exact date to be set).

Topics of interest include, but are not limited to:

- Tools on Smart City and Smart Grid planning, design, assessment
- Tools on hazard analysis and risk assessment
- Tools for security and resilience assessment of Smart Grid, including urban micro-grid
- Tools for Infrastructure and Smart Grids management
- Tools for Smart Grid design and evaluation
- Tools for planning and modelling urban disaster response strategies
- Tools for costs estimation, especially of power outages
- Datasets on energy consumptions of Smart Grids, Smart Cities and specific installations
- Security-related datasets, for example on attack models and attackers profile
- Dataset on data transmission and exchange in Smart Grids, Smart Cities, and specific installations
- Frameworks to manage procedures and governance

Program Committee

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