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Title: Special Session on Cyber-Physical Systems Security for Smart Grids

Special Session Submission Code: Special Session C

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Smart Power Grids are integrations of computation, communication, and physical processes. These new systems have recently evolved towards modern smart platforms where embedded sensors and computers automatically monitor and control the physical processes of the power grids, with feedback loops. Systematization of links and interfaces are essential requirements for connecting diversified smart power grids with different service platforms, which are hosting the monitoring and control logic. Nevertheless, the sensed-data captured by the various sensors increases the attack surface and produces security and privacy issues to the entire system. These issues are primarily connected to (i) Physical security, (ii) Network security, and (iii) Data security. Hence the main motivation for this session is to bring together researchers and practitioners working on related fields of working on related fields of cybersecurity for smart grids, threat intelligence and digital investigations in smart grid environments, to present current research issues and advances.

The aim of this session is to provide insight for the discussion of the major research challenges and achievements on various topics of interest. Papers on practical as well as on theoretical topics and problems are invited. Topics include (but are not limited to):

- investigations of Smart Power Grid Environments
- Investigation of Insider Attacks in Power Grid Environments
- Malware investigations for critical infrastructures
- New threats and Non-Traditional approaches for Smart Power Grids
- Threat Hunting and Intelligence in Power Grid Environments
- Incident Management and Analysis in Power Grid Environments
- Machine learning applications in critical infrastructure security and threat intelligence
- Privacy-enhancing techniques in Smart Grids
- Evidentiary Aspects of Digital investigations in Smart Grids
- Vulnerability Management and Assessment in in Smart Grids
- Hardware Vulnerabilities and Device investigations in in Smart Grids

We encourage contributions describing innovative work in the realm of cyber security, cyberdefense, and digital forensics in Smart Grids.

Paper Submission: <https://www.ecres.net/submission.html>

Note: While submitting your paper to the submission panel, please select the track under the name **“Special Session C”**. That is very important.