Aims & Topics
Modern electric infrastructures are becoming more and more complex for the introduction of new technologies like Renewable Energy Sources (RES) and Distributed Generation (DG), determining also an meaningful role of Information and Communication Technologies. This has increased the effects of fast transients (as the ones produced by lightning strikes) occurring in the electric and communication infrastructures, making it necessary to have at disposal powerful tools for the analysis of such events with limited computational efforts.

Keywords: Infrastructure, Renewable, Communication, Technologies, Powerful, Energy

Subtopics
The subtopics of interest for this special issue include
• Mechanism of thunderclouds charging
• Physics of lightning flash development
• Lightning Location Systems and, more in general, lightning detection and monitoring
• Lightning prediction tools and assimilation in Numerical Weather Prediction models
• Lightning currents and electromagnetic fields modeling
• Lightning performance of power transmission and distribution networks
• Lightning protection systems and insulation coordination

Schedule
Timeline for submission: September 30, 2018
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