

CALL FOR PAPERS



Special Session on “Resilient Operation and Protection of Sustainable Energy Systems”

SPIES 2020-2nd International Conference on Smart Power & Internet Energy Systems
June 02-04, 2019, Bangkok, Thailand



ORGANIZED AND CHAIRED by

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SPECIAL SESSION DESCRIPTION

The resilience of energy systems is the ability to reduce the likelihood of supply interruptions and to quickly recovering from it when it occurs. With the penetration of power electronic converters, physical disturbance in the network, such as short circuit, will no longer result in the large current needed for protection relays, rendering the existing network protection system ineffective. Safeguarding the network under low fault current requires new protection ideas blended with control of suitable system components. A new form of instability in network operation has been observed where various power electronics converters dynamically interact, requiring new modelling and control design ideas to run the system to mitigate the impact of such interaction on the operational stability margin. Research in innovative monitoring technology is necessary to assess the operational suitability of various components in the system and devise proactive control strategy online.

TOPICS COVERED (no more than 5)

- Data driven monitoring of network operational situation
- Modelling and dynamic state estimation for control of Sustainable Power and Energy Systems
- Protection for resilient energy networks
- Fault location in power distribution cables

For additional information please visit www.icpies.org

Schedule:

Deadline for submission of the paper (s) to the Easychair submission site by selecting the desired special session- January 10, 2020

Notification of acceptance – February 29, 2020

Deadline for submission of final manuscripts through Easychair- March 10, 2019

Technical Co-sponsors:



Supporting Universities:

