



CALL FOR PAPERS

CIGRE SC B5 Colloquium 2019
Tromsø, Norway June 24-28, 2019

CIGRE STUDY COMMITTEE B5 COLLOQUIUM ON PROTECTION AND AUTOMATION

The CIGRE B5 colloquium brings together experts and key players of Protection and Automation systems for the electric power industry: System Operators, Manufacturers, Engineers, Policy Makers, Regulators and Academics. The conference will be a unique forum to share exciting new research, to raise issues and awareness, to discuss future directions, and to network with leading professionals.

PREFERENTIAL SUBJECTS:

Papers are invited on any topics of interest falling within the following three preferential subjects.

PS 1: Leveraging PMU data for better Protection, Automation and Control Systems

- Use of PMU data to improve system models and to monitor analogue inputs
- Adaptive protection concepts utilizing PMU data
- Wide area schemes, novel backup protection, power swing protection, and synchronizing schemes based on PMU data
- Improvements in PACS commissioning and post-event analysis using PMU data

PS 2: Time in Protection Applications – Time sources and distribution Methods

- Sources and distribution of time references in PACS and Wide Area Systems and the related accuracy
- Engineering of time synchronisation and time reference distribution for IEC 61850 process bus based protection and control applications
- Commissioning and testing of time reference sources and distribution means
- Expected behaviour of PACS functions in case of loss and recovery of time synchronisation

PS 3: Future technologies for inter-substation communication, Migrating Digital Teleprotection Channels to Packet-Based Networks

- Migration of Serial Teleprotection Channels to Packet-Based Networks and best practices for specifying, testing, commissioning and monitoring
- Specification of channel or network performance, data transmission and management of constraints for PACS
- Data Segregation including use of virtual networks and WDM (Wavelength-Division Multiplexing) for PACS and performance analysis methods
- Substitution of serial interface: Technologies, topologies, constraints and experience feedback

October 31, 2018
Deadline for submission
of Synopsis

November 15, 2018
Notification of acceptance

January 31, 2019
Deadline for submission of
final papers



SUBMISSION

Authors are invited to submit a Synopsis (about 500 words) of the proposed paper. The Synopsis should be sent by e-mail via their CIGRE SC B5 National Committee Member/Observer to reach the Secretary of Study Committee B5 richard.adams@ramboll.co.uk by October 31, 2018.

Paper- and synopsis templates are available at the conference website www.cigreb5tromsoe2019.com

The submitted synopses will go through a peer review process. The Secretary of Study Committee B5 will notify receipt and acceptance of the synopses before November 15, 2018.

Upon synopsis acceptance, a paper limited to 6 to 8 pages in CIGRE format should be submitted for the final contribution by January 31, 2019. Papers are to be forwarded by e-mail to the Secretary of Study Committee B5 richard.adams@ramboll.co.uk

Accepted final contributions will be available for the delegates at the conference website before March 30, 2019

Colloquium web pages: www.cigreb5tromsoe2019.com