CALL FOR PAPERS

Special Session on HVDC Converters and systems: Modelling, Control and Stability Analysis

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA

TOPIC OF THE SPECIAL SESSION

Voltage Source Converter (VSC-) High-Voltage Direct-Current (HVDC) transmission systems are characterized by their the fast control dynamics and inherently non-linear behavior, introducing challenges in terms of stability and performance, especially if the system is based on a multilevel converter topology. Therefore, efforts are required in terms of adequate modelling of the individual and interconnected elements of the system, such that novel control designs as well as stability and performance analysis can be performed thereafter. Thus, this special session intends to present the latest advances and developments in mathematical modeling, control, and stability analysis of HVDC converters and systems.

Topics of the Session

- HVDC converter modelling for stability analysis and control design.
- Linear and Nonlinear control algorithms and/or stability analysis methods for HVDC grid converters and systems
- The Modular Multilevel Converter (MMC) case: modelling, control design and/or stability analysis

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Author's schedule:

- Deadline for submission of special session papers
  May 1, 2018
- Notification of acceptance
  July 15,2018
- Deadline for submission of final manuscripts
  September 7, 2018

For additional information please visit www.iecon2018.org