



Special Session on
IMPEDANCE-SOURCE CONVERTERS FOR RENEWABLE ENERGY SYSTEMS

Chairman: Dr. Marcelo A. Perez, Universidad Tecnica Federico Santa Maria (Chile)
marcelo.perez@usm.cl

Co-chair: Dr. Ana M. Llor, Universidad Tecnica Federico Santa Maria (Chile)
ana.llor@usm.cl

Co-chair: Prof. Haitham Abu-Rub, Texas A&M University at Qatar (Qatar)
haitham.abu-rub@qatar.tamu.edu

Call for Papers

Power electronics is a fundamental aspect for the integration of renewable energy in the grid. Several power electronics converter topologies have been developed to address the needs of renewable energy conversion systems such as high efficiency and reliability. Impedance-source converters are a promising family of DC-AC power converter topologies with interesting properties such as step-up and step-down characteristics in a single conversion stage which, combined with high performance control methods, could increase the system availability and performance.

The aim of this special session is to concentrate contributions on impedance-source converters and control methods, particularly for renewable energy applications, to provide a common framework for presentation and discussion of emerging technology, while promoting academic and industrial interaction and cooperation.

Topics of interest include, but are not limited to: Power topologies of impedance-source converters, Modeling and analysis of impedance-source converters, Design considerations of the impedance network for power conversion in renewable systems, Renewable energy based impedance-source converters in standalone and grid-connected systems and Advanced control strategies for renewable based renewable energy systems.

Deadlines:

Submission of the full paper: October 15th, 2017
Notice of acceptance: November 11th, 2017
Submission of final papers: December 12th, 2017

All the instructions for digests are included in the conference website: <http://icit2018.org/en>