

CALL FOR PAPERS



Special Session on

Z-Source Converters; Topologies, Modulation and Control Strategies, and their Applications

ICIT 2019-The 20th IEEE International Conference on Industrial Technology, Feb. 13-15, 2019, Melbourne, Australia



TOPIC OF THE SPECIAL SESSION

Z-Source Converters; Topologies, Modulation and Control Strategies, and their Applications

Outline of the session

Z-SOURCE CONVERTERS provide efficient means for electric power conversion (dc–dc, dc–ac, ac–dc, ac–ac) between source and load in a wide range of applications. Z-source converters have been experiencing, in terms of research and applications, a constant growth during the last 15 years. The efforts of research have led to a rapid development of different Z-source converter topologies, modulation techniques, and control strategies. Nevertheless, many interesting aspects, such as efficiency improvement, optimized parameters, and new applications, still require more investigation. We encourage all researchers working in this area to submit papers to this Special Session.

Topics of interest include, but are not limited, to the following:

- ✓ *New Z-source converter topologies;*

Author's schedule:

- Deadline for submission of special session papers: **1 August 2018**
- Notification of acceptance: **1 November 2018**
- Deadline for submission of final manuscripts: **1 December 2018**

For additional information please visit <http://www.ieee-icit2019.org>

- ✓ *Z-source based (dc-dc, dc-ac, ac-dc, matrix, multilevel, ...) converters;*
- ✓ *New modulation and control strategies for Z-Source converters;*
- ✓ *Industrial applications of Z-Source converters;*
- ✓ *Z-Source converters for renewable energy applications;*
- ✓ *Z-Source converters for electric vehicles and motor drives applications;*
- ✓ *Parameters optimization.*
- ✓ *Loss analysis and losses minimization methods*
- ✓ *Reliability issues*
- ✓ *Review and challenges on Z-Source converters*

IEEE IES Technical Committee Sponsoring the Special Session:

Power Electronics Technical Committee, Inverters/Rectifiers subcommittee, Impedance Source Converters subcommittee, Electric Machines and Drives subcommittee

ORGANIZED AND CO-CHAIR BY

Ebrahim Babaei
Dmitri Vinnikov

e-babaei@tabrizu.ac.ir
dmitri.vinnikov@ttu.ee