# IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS ISIE'18
# 12-15 JUNE 2018, CAIRNS, AUSTRALIA

**Special Session on**

# Design and Control of Synchronous Reluctance Machines

***Organized by***

Dr. Morgan Kiani (m.kiani@tcu.edu)
Texas Christian University, Fort Worth, TX, USA

Dr. Leila Parsa (lparsa@ucsc.edu)
University of California at SANTA Cruz, Santa Cruz, CA, USA

## *Call for Papers*

Synchronous Reluctance machine offer a viable solution for a wide range of applications. In view of increased interest from industry for employment of this family of electric drives as a main contender in a diverse line of products, it is time to address the state of the art and future trends for this emerging motor drive technology. The proposed special session invites articles highlighting the recent advances in optimal magnetic design and advanced control in this family of adjustable speed motor drives. It is intended to furnish a balanced point of view reflecting those by the industry and in the academia.

Topics of interest include, but are not limited to:

1. Optimal magnetic design of synchronous reluctance machines (SyncRel).
2. Permanent magnet- assist SyncRel drives.
3. Efficiency and power factor optimization in SyncRel drives.
4. Torque ripple and acoustic noise minimization in SynRel drives.
5. Industrial applications.
6. Comparative study of SyncRel drives as a replacement for Induction motor drives.
7. Multi-phase SyncRel drives.
8. Position sensorless operation of SyncRel drives.

All the instructions for paper submission are included in the conference website: http://www.ieee-isie2018.org