

Message from the Chairmen

Dear Authors and Dear Participants,

on behalf of the International Steering Committee it is our sincere pleasure to welcome you to the First IEEE International Symposium on SensorLess control for Electrical Drives (SLED 2010), in Padova, Italy, on July 9th-10th, 2010. This Symposium follows three editions of the informal Workshop on Sensorless Control of Electrical Drives, Msida (Malta) 2007, Varsow (Poland) 2008, and Barcelona (Spain) 2009, where specialists of the topic began to grow a bright sharing community.

During SLED 2010, international experts will help to answer the key questions posed by the topic of Sensorless Control for Electrical Drives, with particular attention to induction machines, synchronous PM and reluctance machines. Keynotes, regular papers and industrial papers are included in the two-day program, focusing on:

- Advanced theoretical topics (stability, accuracy, parameter, sensitivity, reliability, ...)
- Sensorless-oriented design of electrical motors and drives
- Industrial, commercial and home applications: case studies
- Implementation issues of sensorless control (FPGA, ...)
- Non-linearity impact (iron losses, cross saturation, eddy currents, ...): effects prediction and compensation
- Standstill and low speed sensorless drives
- High speed sensorless drives
- Algorithms based on machine model
- Algorithms based on signal injection

and other more. We are honoured of your participation and your precious contribution to the discussion on present trends and future opportunities of this challenging topic in the electrical drives field. The Symposium also provides a great opportunity for networking among colleagues, especially during the social events planned during the meeting: coffee breaks, lunches and the official dinner on Friday evening, on July 9th, in a restaurant of the historic old Padova. A full-day boat cruise along the Brenta canal from Padova to Venice, to visit three old Venetian villas, is also planned for the day after the conference.

We would like to acknowledge IEEE - Power Electronics Society for the sponsorship and also to thank all the technical co-sponsors and all the people who contributed to the success of this meeting: authors, reviewers, secretaries and, last but not least, the local organizing staff belonging to the Electrical Drives Laboratories, who worked hard, with enthusiasm and professionalism to prepare every instant of the Symposium.



Prof. Silverio Bolognani



Prof. Ralph M. Kennel