University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

Simulation & Optimization in Electrical Engineering Design

Prof. Zoran Andjelic

Senior Principal Scientist

ABB Corporate Research Centre, Baden (CH)

May 16, 2013, 2:00-4:00 pm

E8 lecture room

Abstract:

The aim of the talk is to present some experiences in simulation & optimization techniques used for the design of the real-world electrical apparatus. In the first part of the talk we shall focus us on the BEM--based numerical techniques for the analysis of typical single- and multi-physics tasks in engineering design. In the second part of the talk we shall present some experiences in Free-Form Optimization (FFO). Some examples of the Direct, Indirect and Hybrid Optimization will be discussed.

Bio:

Prof. Zoran Andjelic is presently with ABB Corporate Research Center in Baden, Switzerland, working as a *senior principal scientist* for Simulation-Based Design and Optimization of Dielectric, Thermal and coupled Electro-Mechanical problems. He received the PhD degree from Zagreb University, Croatia in 1984. His teaching and research work emphasized Measurement Techniques, as well as the Computational Electromagnetics. In 1989 he becomes a professor at the Faculty of Electrical Engineering, University of Sarajevo. In 1991 Dr. Andjelic joined ABB Corporate Research Center in Heidelberg-Germany, and later in 2001 ABB Corporate Research in Baden, Switzerland.

Organizer

Prof. Paolo Di Barba

Ph.D. Coordinator

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Seminar in English

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