

Learn about **Real-Time Simulation and Hardware-In-the-Loop** testing, its latest advancements in academic applications, and discover its benefits in your research.

Gazi Üniversitesi and **OPAL-RT Technologies** are pleased to invite you to:

TECHNICAL SEMINAR

Real-Time Simulation and Control of Electric Power Systems, Power Electronics, and Motor Drives

Date: **Tuesday, 24 September 2013** Time: **2 PM** Duration: **1.5 - 2 hours**
Room: **Seminar Room, Gazi University, Faculty of Engineering – Maltepe**

OBJECTIVES

- Explain real-time digital simulation of electric systems, and their requirements
- Describe state-of-the-art technologies and tools used in real-time simulators
- Demonstrate how real-time simulation is a valuable research and teaching tool

SEMINAR PLAN

- a) Overview of real-time Simulation and real-time digital simulators
- b) Applications of real-time simulation in electric systems, from motor drives, power converters, and FACTS, to renewable energy systems and conventional power grids
- c) Real-time Control Prototyping (RCP) and Hardware-In-the-Loop (HIL) simulation
- d) Challenges and solutions in conducting real-time simulation of electric systems
- e) Typical projects from actual research and industrial projects

Presenter: **Simon Abourida**, M.Eng.

Simon Abourida is the Business Development Manager for the Middle East at Opal-RT Technologies. He has a Master's degree in electrical engineering (Power Electronics) from Ecole Polytechnique de Montreal (1994). At Opal-RT, he is involved in project management, R&D, marketing and sales, commissioning and training, in the area of real-time simulation and hardware-in-the-loop testing of dynamic systems mainly power systems, power electronics and motor drives.

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About OPAL-RT

OPAL-RT is the world leader in the development of PC/FPGA Based Real-Time Digital Simulators, Hardware-In-the-Loop (HIL) testing equipment and Rapid Control Prototyping (RCP) systems to design, test and optimize control and protection systems used in power grids, power electronics, motor drives, automotive industry, trains, aircrafts and various industries, as well as R&D centers and universities.

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