

Technical Seminar by the Industrial Applications Society (IAS) and Power Electronics Society (PELS) chapters in the IEEE Montreal Section

The IEEE Montreal Section invites all interested IEEE members and non-members to a seminar on

HIL and RCP Capabilities of Real Time Digital Simulators for MMC and Other Power Converter Applications

Wei Li, Power System Simulation Specialist, OPAL-RT Technologies

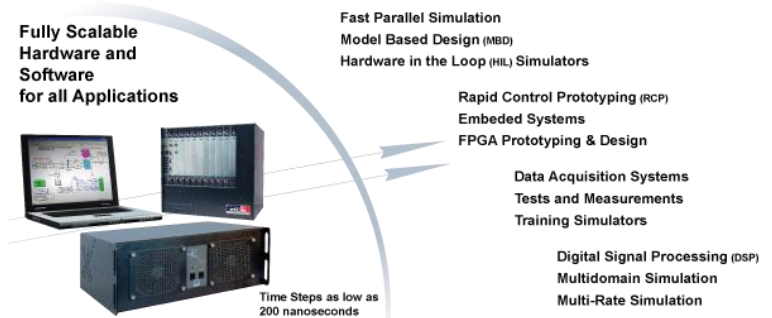
Date Wednesday March 23, 2016

Time 03:00 PM to 04:30 PM

Place Room 603, McConnell Engineering Building, McGill University, 3480 University Street, Montreal, QC

Abstract

The modular multilevel converter (MMC) technology has significant advantages. Recently a few MMC projects were commissioned around the world. Due to the lack of engineering experience and the complexity of MMC control, it is important for manufacturers to validate their controllers, and to validate for all possible scenarios using



a hardware-in-the-loop (HIL) test bench before they are commissioned in the field. This presentation explains the challenges of an HIL test bench for a complicated MMC system and the solutions provided by OPAL-RT Technologies. The capabilities of the test bench for fast or real time digital simulation, and rapid control prototyping (RCP) study of power grids and renewable energies with power electronic devices are also covered.

Speaker Biography



Wei Li received the B.Eng. degree from Zhejiang University, Hangzhou, in 1996, the M.Eng. degree from the National University of Singapore, Singapore, in 2003, and the Ph.D. degree from McGill University, Montréal, QC, Canada, in 2010. Since 2007, he has been a power system simulation specialist with OPAL-RT Technologies, in Montréal. He is the main developer and the project owner of the modular multilevel converter (MMC) models for real time or fast simulation applications.

Admission: Free for all interested IEEE members and non-members. [Registration](#) is required.

