SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Faculty of Engineering
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Area: Power and Energy Systems

Host: Prof Dipti Srinivasan

Organized By:
Green Energy Management and Smart Grid Research Center (GEMS),
Department of Electrical & Computer Engineering, National University of Singapore

TOPIC	**:**	**Modelling and simulation methods for optimized location and size of Distributed Generators Systems. Case study: hybridization concept for Wind / Tidal Systems using real-time emulation methods**
SPEAKER	**:**	**Professor Cristian NICHITA** **Professor Emeritus in the Research Group of Electrical Engineering and Automatic at the University of Le Havre Normandy** **Université du Havre** **FRANCE**
DATE	**:**	**13 August 2019, Tuesday**
TIME	**:**	**11am to 12pm**
VENUE	**:**	**E4-05-39, Engineering Block E4, Faculty of Engineering, NUS**

ABSTRACT

Real time monitor of grids require less computation time in calculation of power system analysis. In this seminar, we present some aspects concerning the capability of the classical network to support different levels penetration of Distributed Generators (DG) as wind/tidal energy system. Different simulation algorithms have been proposed to reduce CPU time and memory, helping the grid operators and planners to assess power situation and increase penetration level of DG. In this seminar, our work on hybridization concept of wind and tidal power generation systems for achieving better their quality of integration on electrical grid will also be presented. Analysis of wind and tidal speed profiles, and their statistical properties will be discussed to show that they could be complementary impacting global power chains at the given sites.

BIOGRAPHY

Professor Cristian Nichita received doctoral degree in Electrical Engineering from The University of Le Havre, France and in Automatic System Engineering from The University “Dunarea de Jos” of Galati, Romania. After obtaining PhD, he worked and lectured at University of Havre in Electrical Drives, Power Electronics, Control Systems, Wind Energy Conversion, Real Time Simulation, Grid Power Systems, Micro-generation Energy Systems. At present he is GU8 Consortium Vice-Chair of Joint Research Committee Research Representative of The University of La Havre in The SGroup European Universities Network (The SGroup), Research responsible of New SGROUP Work Group on Renewable Energies in The SGroup, Research Head of the Task Force Multi-Source Renewable Energy Project in GU8 Consortium. He also served between 2004-2013 as Director of International Office of the University of Le Havre and between 2010-2012 as a General Secretary of GU8 Consortium.

Professor Nichita has authored more than 100 publications in international journal and peer reviewed conferences Proceedings.