

The Electrical and Computer Engineering Program presents

ECEN Seminar Series

Control, Estimation and Modulation of Modern PWM Converters for Renewable Energy Sources

Dr. Mariusz Malinowski
Warsaw University of Technology, Poland

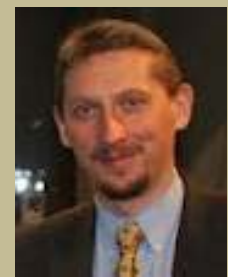
Thursday, 3 May 2012, 10 a.m. – 1 p.m.

Conference room 310

Light lunch will be served

Power electronics conversion is the key technology to increase efficiency from different RES. Most of RES elements use already AC/DC or DC/AC converters, however they can be more efficient, reliable, cheaper and smart with proper design of converter topology, control and modulation.

This presentation shortly describes different types of RES and more detailed AC/DC and DC/AC converters topologies, control, estimation, modulation, filtering design and active damping of possible resonances.



Dr. Malinowski received the Ph.D. degree in electrical engineering from the Institute of Control and Industrial Electronics, Warsaw University of Technology (WUT), Warsaw (Poland), in 2001.

He is currently with the Institute of Control and Industrial Electronics, WUT. During his career he has been a Visiting Professor in several prestigious Universities in Europe and in the USA.

He is an author of four patents, over 100 technical papers and co-author of chapters in two books. His current research activities include control of grid connected PWM converters, renewable energy, multilevel converters, HVDC technique, modulation and DSP applications.

Mariusz Malinowski is associate editor of the IEEE Transaction on Industrial Electronics and editor in chief of IEEE Industrial Electronics Magazine.

FOR MORE INFORMATION:

Noha Ezzat
noha.ezzat@qatar.tamu.edu
+974.4423.0152