Title: CEMPE Research on Green Energy and Smart Micro Grid Technology

Speaker:
Professor Jian Guo Zhu
Director, Centre for Electrical Machines and Power Electronics
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Abstract:
Because of the energy crisis and ever growing concerns of the global climate change, environment friendly sustainable energy technologies have becoming a cutting edge research topic for scientists and engineers of different disciplines around the world. The Centre for Electrical Machines and Power Electronics (CEMPE), University of Technology, Sydney (UTS), Australia, started its research and development in the field of renewable power generation and applications, in particular wind and photo voltaic (PV) systems, in early 1990s. This presentation reports the recent CEMPE research activities on green energy and smart micro grid technology, including new materials, optimal electric vehicle drives, and advanced control of renewable power generation and micro grids.

Biography of the speaker:
Prof. J. G. Zhu received his BE in 1982 from Jiangsu Institute of Technology, China, ME in 1987 from Shanghai University of Technology, China, and Ph.D in 1995 from University of Technology, Sydney (UTS), Australia, all in electrical engineering. He currently holds the positions of Professor of Electrical Engineering and Head for School of Electrical, Mechanical and Mechatronic Systems at UTS, Australia. His research interests include electromagnetics, magnetic properties of materials, electrical machines and drives, power electronics, green energy systems and smart micro grids.

He has been a team leader and chief investigator for over 50 government and industry funded research projects, and based on his research findings, published 1 book, 3 book
chapters, and 268 journal articles.

**Organizer:** Prof. R.S.Y. Hui