

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Faculty of Engineering

Website: <https://www.eng.nus.edu.sg/ece/>

Area: Power and Energy Systems

Host: Associate Professor Sanjib Kumar Panda

Jointly Organized by:

IEEE Joint IAS/PELS Student Branch Chapter, NUS and NUS ECE Department

Deadline for registration: 25 January 2021

For logistics purposes [register your attendance here](#). Registration is mandatory!

IEEE PELS Regional Distinguished Lecture (RDL) Program	
TOPIC	Large Capacity Power Electronics Technology for Renewable Energy Sources
SPEAKER	Dr. Noriko Kawakami, Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) Fellow, IEEE Senior Fellow, TMEIC, Power Electronics Systems Division, Tokyo, Japan
DATE	Wednesday, 27 January 2021
TIME	2:30 PM – 3:30 PM
WEBINAR	Join Zoom Webinar https://nus-sg.zoom.us/j/85141823265?pwd=bHdrWW54SnE1eGdHRnpGTHoreWNPZz09 Webinar ID: 851 4182 3265 Passcode: 416673
ABSTRACT	One of the most emerging global issues is the reducing of CO₂ for sustainability. The climate policies assign great roles to the renewables and the energy efficiency, to which the Power Electronics can contribute very much as a key technology. The talk introduces recent technology trend of industrial power electronics especially on the large capacity in the range of MW. Such technology is expected to contribute to further the promotion of renewables and energy efficiency. The industrial Photo-voltaic (PV) inverters will be introduced to show the technology trend in the PV fields. Energy storage systems (ESSs), for large-scale power plants will be introduced. The ESSs are a key component for stabilizing the power grid by managing power and energy from renewables.
BIOGRAPHY	 Dr. Noriko Kawakami (M'95-SM'17-F'18) is Senior Fellow in the Power Electronics Systems Division at Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC). She has led development projects of large-capacity power electronics equipment for more than 30 years. Her main achievements are related to grid-connected converters and inverters, and their applications to distributed energy sources such as fuel cells, wind turbines, and battery energy storage systems, and their sophisticated control systems, including HVDC systems employing MMC topology. She received the Transactions Prize Paper Award in 2010 and the Technical Development Award in 2000 from IEEE (the Institute of Electrical

	Engineers of Japan). In 2003, she moved from Toshiba Corp. to Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) which is a successful joint venture of two major Japanese companies in the industrial field. She earned her Ph.D. in electrical engineering from the Tokyo Institute of Technology based on her work on control systems for large-capacity self-commutated converters in 2008. She served as the President of Industry Applications Society of IEE-Japan from 2018 to 2020. Dr. Kawakami has served as a member of the technical program committee for many conferences such as the IEEE ECCE and INTELEC and as a vice chair for the organizing committee of IPEC 2018 ECCE Asia. She is a members-at-Large 2018-2020 of PELS and a member of IEEE William E. Newell Award Committee. She was elevated to IEEE Fellow in 2018.
Registration Link	Register Here!