

## 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: Assoc Prof Sanjib Kumar Panda**

#### Lecture

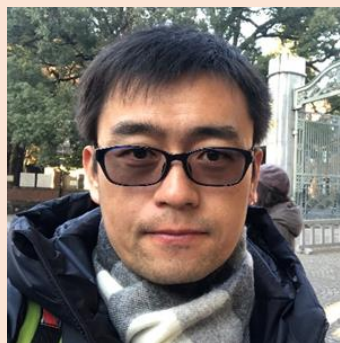
<b>TOPIC</b>	:	<b>Protection of Power Distribution Networks – Overcurrent Protection</b>
<b>SPEAKER</b>	:	<b>Dr Zhang Zhen Technical University of Munich, Germany</b>
<b>DATE</b>	:	<b>4 November 2019, Monday</b>
<b>TIME</b>	:	<b>2pm to 3pm</b>
<b>VENUE</b>	:	<b>E5-02-32, Engineering Block E5, Faculty of Engineering, NUS</b>

#### ABSTRACT

This lecture aims to elaborate the overcurrent protection for power distribution networks, which includes:

- a) basic structure of power grids, the results/causes/types of faults, the relay as well as its classical types;
- b) key primary, backup, and zones *etc*; and
- c) overcurrent protection, the relay types (e.g. definite current, definite time, IDMT, and directional overcurrent), settings, and applications

#### BIOGRAPHY



**Zhen Zhang** (S'11-M'13-SM'15) received the B.Eng. and M.Eng. degrees in automation from Tianjin University, Tianjin, China, in 2004 and 2007, respectively, and the Ph.D. degree in electrical engineering from The University of Hong Kong, Hong Kong, in 2014.

In 2014, he was a visiting scholar at IBM Research Laboratory supported by IBM Global Great Minds Program. Then, he served as a Postdoctoral Fellow with The University of Hong Kong. He is currently an Associate Professor in the School of Electrical and Information Engineering at Tianjin University and an Honorary Associate Professor in the Department of Electrical and Electronic Engineering at The University of Hong Kong. He has authored or coauthored around 50 internationally refereed papers as well as 2 books published by Wiley-IEEE Press and Cambridge University Press, respectively. His research interests include power electronic control, wireless power transfer, electric drives, electric vehicles, and distributed energies.

Dr. Zhang is the recipient of the Humboldt Research Fellowship, the Carl Friedrich von Siemens Research Fellowship, and JSPS Visiting Fellowship. He is currently an Associate Editor of *IEEE Transactions on Industrial Electronics*, an Associate Editor of *IEEE Transactions on Industrial Informatics*, Editor of *IEEE Transactions on Magnetics*, Associate Editor of *IET Renewable Power Generation*, and Executive Editor of *Cambridge University - Wireless Power Transfer*, respectively.

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