

Séminaire

Le vendredi 16 mars 2018, 15h30
Des rafraîchissements seront servis dès 15h
Complexe de recherche avancée, pièce 233
Université d'Ottawa, 25, rue Templeton
Le séminaire se déroulera en anglais.

Seminar

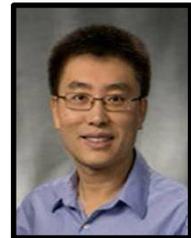
Friday, March 16, 2018, 3:30 p.m.
Refreshments to be served starting at 3 p.m
Advanced Research Complex, room 233
University of Ottawa, 25 Templeton Street

Grid Modernization: Challenges, Opportunities, and Solutions

Jianhui Wang, Southern Methodist University / Argonne National Laboratory

Abstract: Our aging grid infrastructure faces increasing challenges from multiple sources including greater demand variability, stricter environmental regulations and growing cyber security concerns. Advanced smart grid technologies provide possible solutions to tackle these challenges. Meanwhile how to best utilize these new devices and technologies such as phasor measurement units and electric vehicles remains a challenge by itself. In this talk, I will address various topics which span a multitude of areas including demand response, stochastic optimization for renewable integration, microgrids and cyber security. I will present the technical issues in implementing these technologies and corresponding potential solutions.

Bio: Dr. Jianhui Wang is an associate professor at Southern Methodist University. He is also affiliated with Argonne National Laboratory. He is the Secretary of the IEEE Power & Energy Society (PES) Power System Operations, Planning & Economics Committee. He has authored/co-authored more than 250 journal and conference publications. His work has been cited more than 8000 times by his peers (Google Scholar). He is an editor of the Journal of Energy Engineering and Applied Energy. He received the IEEE Chicago Section 2012 Outstanding Young Engineer Award and is an Affiliate Professor at Auburn University and an Adjunct Professor at University of Notre Dame. He has also held visiting positions in Europe, Australia and Hong Kong including a VELUX Visiting Professorship at the Technical University of Denmark. Dr. Wang is the Editor-in-Chief of the IEEE Transactions on Smart Grid and an IEEE PES Distinguished Lecturer. He is the recipient of the IEEE PES Power System Operation Committee Prize Paper Award in 2015.



TOP-SET est un programme de formation FONCER du CRSNG en puissance optoélectronique ayant pour but de façonner une cohorte de personnel hautement qualifié détenant des connaissances approfondies en systèmes optoélectroniques pour joindre les rangs d'équipes de recherche et développement.

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For further details regarding TOP-SET, go to create-topset.eecs.uottawa.ca.



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