



## CFES Webinar

# Microgrid Fundamentals and Control

Friday, October 17, 2014, 2-3:30pm

**Registration Deadline: Noon on October 6, 2014**

**DESCRIPTION:** A technical seminar focusing on the fundamentals of microgrids. We will take a close look at circuit and control theories applied to both dc and ac microgrids. We will examine the stability and power quality issues of microgrids, and discuss analysis and simulation tools for local and system control design. Attendees will learn about

- Sharing of Power Among Multiple Sources Connected in Parallel
- Pros and Cons of Droop Control vs. Master-Slave Control
- Differences between DC and AC Microgrid Control
- Microgrid Stability and Power Quality Issues
- Microgrid Control Development Tools

### PRESENTER:

Dr. Jian Sun  
Professor, Department of Electrical, Computer and Systems Engineering  
Director, Center for Future Energy Systems  
Rensselaer Polytechnic Institute

Dr. Sun is an expert in power electronics and power systems. His research covers power conversion and control for renewable energy, energy storage, efficient energy utilization, and advanced grid systems including microgrids, mobile power systems, and high-voltage dc transmission. He received his PhD from the University of Paderborn in Germany. Prior to joining RPI in 2002, he spent five years at the Advanced Technology Center of Rockwell Collins as an R&D engineer, and was a Post-Doc Fellow at Georgia Tech from 1996 to 1997. He was the Editor-in-Chief of IEEE Power Electronics Letters from 2008 to January 2014, and is currently the Treasurer of the IEEE Power Electronics Society. He is also a member of Administrative Committee of both the IEEE Power Electronics Society and the IEEE Systems Council. He received IEEE Power Electronics Society Modeling and Control Technical Achievements Award in 2013 for contribution to averaged modeling and ac power electronic system stability. He can be reached at [jsun@rpi.edu](mailto:jsun@rpi.edu) for technical questions relate to the webinar.

### REGISTRATION:

Registration is required for attending the webinar. To register, fill out the online registration form at [Webinar Registration](#). The webinar will be presented in WebEx, and an invitation to join will be sent shortly after the registration closing date. The number of attendees is capped at 100 by WebEx. Registration will close by noon on October 6 or sooner if the cap has been reached. The registration form can also be found on the next page.



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Personal Information – One form per participant		
<b>First Name:</b>	<b>Last Name:</b>	
<b>Company:</b>	<b>Title:</b>	
<b>Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone Number:</b>		
<b>Email:</b>		

### Method of Payment

Registration Fee: \$50.00 per person

Check or money ordered enclosed – Payable to Rensselaer Polytechnic Institute

Visa     MasterCard    Card #: \_\_\_\_\_    Expiration Date: \_\_\_\_\_

Print Name as Shown on the Credit Card:	
Signature:	Amount to be Charged: \$50

The registration form can be submitted by one of the following methods:

- Online registration [Webinar Registration](#)
- Email an electronic copy (with signature) to Alicia Randazzo at [randaa2@rpi.edu](mailto:randaa2@rpi.edu)
- Mail a hardcopy to Rensselaer Polytechnic Institute  
Attn: Academic Outreach Programs Office  
110 8<sup>th</sup> Street  
Troy, NY 12180-3590

**Questions:** For questions related to payment, please contact Alicia Randazzo 518-276-6809, [randaa2@rpi.edu](mailto:randaa2@rpi.edu). For other questions, please contact Lisa Valenti at (518) 276-6754, [valenl@rpi.edu](mailto:valenl@rpi.edu).