

SYNERGETIC ACTIVITIES:

1. Professor Mohammed is currently the PI on several large Federal/State grants including; "A Cyber Physical System/Communication Framework for Resilient Real-time Control and Secure Operation of Power System Distribution Networks," Office of Naval Research, 2017-2019, "Development of an Interactive Class-based Curriculum with hands-on Laboratory Experimentations for Energy Cyber-Physical Infrastructure," Florida Center for Cyber Security Center, 2018-2019. He is also the campus lead for the "DoE Center on Secure Electric Energy Delivery Systems (SEEDS)," October 2015-September 2020.
2. Professor Mohammed received several awards including; Florida International University Outstanding Research Award, 2012, Outstanding Doctoral Mentor Award, Florida International University, 2017, Professorial Excellence Award, Florida International University, 1999, Technical Leadership Award, Applied Computational Electromagnetic Society, IEEE Cyril Venotte Electromechanical Energy Conversion Award, IEEE PES 2010, Elected Fellow of IEEE, 1996, Elected Fellow of the Applied Computational Electromagnetic Society (ACES), 2008.
3. Recently, in Egypt, Professor Mohammed has given several invited talks including; MEPCON2017 Conference about the cyber physical system security in smart grids. In addition, in December 2017, he has given two workshops at New and Renewable Energy Authority (NREA) and Faculty of Engineering Helwan University about renewable energy integration and developing smart-grid testbeds, respectively. Also, Dr. Mohammed held many research meetings with Helwan University and Academy of Scientific Research and Technology (ASRT) which funded a recent joint research project (JESOR) between ASRT, Helwan University and FIU.
4. Professor Mohammed has given numerous invited lectures, seminars and short course around the world over the past 30 years. Recently lectured on as Invited Keynote on the "Design and Simulation Issues for Secure Power Networks as Resilient Smart Grid Infrastructures," at the IEEE SmartGridCom Conference, Miami, Florida, November, 2015. Lectured on "Smart Grid Applications and Wide Area Monitoring Systems," Los Alamos National Labs, August 2011; lectured on "Dynamic Source Commitment Schemes and Wide Area Measurement Systems for AC Distribution Networks Involving Hybrid Renewable Energy Assets for Smart Power Grid Applications," Center for Applied Optimization, University of Florida, April 2011; lectured on "Smart Grid Research and Related Educational Activities," at Okayama University, Okayama, Japan November, 2012.
5. Developed many recent new courses in the energy systems area including sustainable energy, power systems operations and control as well as intelligent systems applications. Developed the Energy Systems Laboratory with its significant Smart Grid Test Bed. Developed many experiments for hands-on involvement in power system operation and control with hardware-in-the-loop.
6. Professor Mohammed has chaired 9 major International Conferences including the IEEE International Conference of Electric Machines and Drives, IEMDC in 2009 and 2017, the IEEE CEFC conference, in 2006 and 2016, the ACES conference in 2006, 2012 and 2015. He has also chaired the IEEE Intelligent Systems Applications in Power Systems in 1996, IEEE Southeast Conference in 1994 and COMPUMAG in 1993. He has chaired the

steering committees as well as the technical program committees for many conferences in his field of expertise. Internationally he is a member of several technical societies of the Institute of Electrical and Electronics Engineers (IEEE, Rank of Fellow); Applied Computational EM Society (Rank of Fellow); American Society of Engineering Education (ASEE, Rank of Member).

7. Many of Professor Mohammed graduates are in prominent positions in industry and academia. Some of the national companies and academic institutions that hired his students include; Boeing Corporation, Radiance Technologies, MIT Lincoln Labs, Naval Surface Warfare Center, Fiat Chrysler Corporation, Ford Motor Company, General Motors, Tesla Motors, Southern California Edison, ABB, Siemens, National Renewable Energy Laboratory, Com Ed, PJM, Schweitzer Engineering Laboratories, Teradyne Inc., NYU, University of West Florida, University of North Dakota, Manhattan College, Kema Consulting, Utility Analytics Corporation, Burns and McDonnell, Florida Power and Light, Sonnen Battery, and New England ISO.