

INSTRUCTOR BIOS TUTORIALS AT ISGT NA 2017

Managing Uncertainties in the Future Grid: Evolution of EMS Control Centers - Synchronphasor Solutions



Jay Giri is Director of Power Systems Technology and Strategic Initiatives at GE Grid Software Solutions in Redmond, Washington. He leads a team of power system engineers who deliver generation control, market applications and synchronphasor/phasor measurement unit (PMU) applications to control centers. He is a liaison for university research activities and an affiliate professor at the University of Washington.

In 1978, Jay and 11 other engineers co-founded Energy System Computer Applications (ESCA). Over time, ESCA became Alstom Grid in 2010 and GE Grid Solutions in 2015. Jay designed and implemented the original software for the ESCA automatic generation control (AGC) and dispatcher training simulator (DTS) power system simulation functions. Today this AGC controls over 50% of North American generation as well as generation in many other countries, and the DTS is one of the predominant simulators used by control centers worldwide.

He has a PhD from Clarkson University in New York and a B.Tech from the Indian Institute of Technology (IIT), Madras. In 2002, he was elected IEEE Fellow: "For contributions to the design and implementation of power system control centers" and is a member of the IEEE Power & Energy Society (PES) Governing Board. He is an Alstom Grid Senior Fellow and a member of the Washington State Academy of Sciences.

DER Integration Course - Impacts on T&D



David Lovelady

Mr. Lovelady joined Siemens PTI Consulting in 2009, and has conducted multiple power system studies on transmission and distribution systems. These studies have included microgrids, distributed generation, distribution automation, motor starting and transmission generator interconnection planning projects for onshore (with FACTS) and offshore (with HVDC) wind turbines, solar thermal plant, combined cycle gas turbine, pumped hydro storage and biomass technologies. Mr. Lovelady has worked for multiple clients including independent system operators, developers and utilities. Mr. Lovelady recently co-authored a “best paper” as awarded by the IEEE on a PSS®SINCAL-based microgrid planning simulation software tool. He is an active member of the IEEE P1547 Revision Working Group on Distributed Generation, the IEEE P2030.2 Working Group on Energy Storage Interoperability, and the NYSDPS Marketing Development and Platform Technology Working Group.

Mr. Lovelady recently became Power Academy Manager. In this position Mr. Lovelady is responsible for all Siemens PTI US training. The Power Academy provides the electric power industry with training courses on Siemens PTI software products as well as courses that cover the theory and practice of electrical power systems, from bulk generation down to the distribution system. Mr. Lovelady and his staff manage the organization and delivery of all training courses in the US.



Hugo Bashualdo, Specialized engineering and managerial experience within the distribution system. His technical expertise includes distribution planning, distributed generation interconnection impact studies, power losses reduction strategies, reliability improvement studies, and the design, construction and maintenance of distribution systems. He has led various areas within a distribution utility business, including: Technical Analysis; Design and Construction; Power Losses Control; Distribution Studies; and Planning, Tariff, Control, and IT. He improved the technical and economic performance of each area he managed. Mr. Bashualdo joined Siemens PTI in February 2012, and leads the consulting group in Microgrids and Distribution Planning.

SG 204: Introduction to Smart Grid Data and Analytics



Anant Venkateswaran is an industry thought leader, teacher, presenter and has over 20+ years of global experience. Anant has supported strategy, business case, cost-benefit analysis etc., and the development solution architectures, roadmaps and business cases and subsequently technology adoption and solutions delivery phases. Anant has conducted workshops with customers globally, resulting in their business challenges being translated first into innovative concepts and subsequently into intelligent solutions. Having been on both sides of the procurement process, Anant believes in reaching across and partnering with multiple customer stakeholders and developing comprehensive solution strategies and execution roadmaps. Anant currently serves GE's Grid Solutions business.



Dr. Ali Ipakchi Dr. Ali Ipakchi has over 35 years of experience in information technology applications to power systems and electric utility operations. As the Senior Vice President of Smart Grid and Green Power at Open Access Technology International, Inc. (OATI), he is responsible for products and business strategy for the Grid Modernization area. Prior to OATI, Dr. Ipakchi was Vice President of Integration Services at KEMA Consulting, assisting utilities with roadmaps, specifications, and implementation strategies in the Smart Grid area. He has also held various senior management positions at ABB and Alstom, supporting power application development and system delivery to the power industry. His areas of experience include utility and power systems operations, operational IT and automation systems for control centers, trading floors, energy markets and ISOs, as well as, distribution utilities and distributed energy resources. Dr. Ipakchi is co-holder of several US patents on power systems applications and instrument diagnostics. Dr. Ipakchi has been an active member of NEASB Smart Grid task force, NIST SGIP, UCAi, OpenSG and a number of other industry initiatives. He frequently is an invited speaker at industry smart grid events.

IEEE 1547 Standard for Interconnecting Distributed Energy Resources with Electric Power Systems



Babak Enayati received his PhD in Electrical Engineering from Clarkson University, Potsdam, NY in 2009. He is currently a Lead Research Development and Demonstration Engineer at National Grid, Waltham, MA and chair of the Massachusetts Technical Standards Review Group (MA TSRG). Over the past ten years Babak has also worked on Distributed Generation interconnection, power system protection, control of microgrids, modeling and aging analysis of electrical asynchronous machines, optimization of electrical drives, multi-generation power system dynamics analysis, and control of switched reluctance motors. He joined IEEE in 2006 and currently is Senior Member, IEEE and the IEEE PES Boston Chapter Chair. Babak is the Vice Chair of the IEEE 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems.