

2023 PES Distinguished Lecturer Listing

First Name	Last Name	Category	Region	Languages (Other than English)	Lecture 1	Lecture 2	Lecture 3	Tutorial	Webinar	Additional
Babak	Enayati	Industry/ Utility	1	Farsi	IEEE 1547 standard and DER interconnections					
Peter	Sutherland	Industry	1		Electrical Arc Flash Hazards - Is your company in compliance?	Grid codes and wind farm interconnections	Harmonics in Electrical Power Systems: Effects of New Technologies			
Jessica	Bian	Government/ Policy	2		Finding a Balance: Regulation and Bulk Power System Performance	Regulatory Aspects of Implementing Advanced Technology		Grid Reliability and Its Vital Signs		
Antonio	Conejo	Academic	2	Spanish	Operational Equilibria of Electric and Natural Gas Systems with Limited Information Interchange	Rethinking restructured electricity market design: Lessons learned and future needs	An Efficient Tri-Level Optimization Model for Electric Grid Defense Planning			
Saifur	Rahman	Academic	2		Alternate Energy	Critical Infrastructure Protection	Mitigation of Greenhouse Gas Emissions			
Kalyan	Sen	Industry/ Utility	2		FACTS Controllers and Their Modeling Techniques					
Sukumar	Brahma	Academic	3		Power System Protection in the Era of Smart Grid			Protection of Microgrids		
Sukumar	Kamalasadan	Academic	3		Control and Management of Bulk Power Grid with Inverter Based Resources (IBRs)	Operating Modern Power System under Uncertainty	Can Modern Power System Achieve 100% Renewable Energy?			
John	McDonald	Industry/ Manufacturing	3		Smart Grid	Substation Automation	SCADA Systems			
A. P. Sakis	Meliopoulos	Academic	3		Power System Grounding					
Damir	Novosel	Industry/ Utility	3		Improving the Power Grid Performance in the Complex Environment	Sustainable Energy Trends, Opportunities, and Challenges	Wide Area Monitoring Protection and Control – Transmission Smart Grid			
Srinivas	Varadan	Industry/ Manufacturing	3		Asset Performance Management in Electric Utilities	Tutorial: Asset Investment Planning for Electric Utilities	Tutorial: Asset Investment Planning for Electric Utilities Using the power of Data Analytics in Electric Utilities			
Jonathan	Woodworth	Consultant	3		Surge Protection of Power Systems for the Non-Technical Professional	The History of Surge Protection of Power Systems		Surge Protection of Power Systems		
George	Gross	Academic	4		Implementation of the V2G Concept (Battery Vehicles) into the Grid	Uncertainty and Risk Management in Electricity Markets	Restructuring of Electricity Industry			
Joydeep	Mitra	Academic	4		Energy Assurance with Renewable Generation	Tutorial: Grid Reliability: Evaluation, Applications and Emerging Issues	Use of Energy Storage for Reliability Improvement of Renewable Generation			
Wanda	Reder	Industry/ Manufacturing	4		Application of Distribution Automation and Associated Benefits	Approaches and Lessons Learned for a Comprehensive Reliability Improvement Effort	Power Industry Workforce in Its Challenges			
Mohamed	Shahidehpour	Academic	4		Power System Control Center	Power System Deregulation and Electricity Restructuring	Power System Operation			
Ebrahim	Vaahedi	Consultant	4		Application of Optimization in Power System Operation	Power System Operation	Microgrid Technology Requirements			
Jianhui	Wang	Academic	4	Chinese	Advanced Power System Operations with Uncertain Wind Power	Distributed Direct Load Control for Large-scale Residential Demand Response				
Julio	Agüero	Industry/ Utility	5	Spanish	Integration of Distributed Energy Resources (DER) and Electric Transportation in Distribution Systems	Distribution Reliability and Resiliency Assessment and Improvement	Grid Modernization and Smart Distribution Systems			
Mladen	Kezunovic	Academic	5		Automated Fault and Disturbance Analysis	Protective Relaying Design, Modeling and Simulation	Smart Grid			
Tapan	Manna	Industry	5		AC Substation Grounding Design	Field Acceptance Tests of Oil filled Transformers	HVDC Design Considerations – A Utility Perspective			
Chanan	Singh	Academic	5		Reliability Evaluation of Smart Grid including the impact of Cyber-physical Interactions	Wind Farm Diversification to Smooth Intermittency and Improve Reliability				
Le	Xie	Academic	5		Toward carbon-neutral electricity and mobility: Is the grid infrastructure ready?	An Open-access Cross-domain Approach to Analyzing the Impact of Extreme Events on the Electricity Sector: What We Learned from COVID-19 and 2021 Texas Winter Outage		Streaming Analytics for the Future Grid		
Ram	Adapa	Industry	6		Planning FACTS Devices	Dynamic Rating Technologies	HVDC and AC to DC Line Conversion			
Babu	Chalamala	Government/ Industry	6		Advances in Battery Technologies for Electric Vehicles and Grid Storage	Emerging eT&D Grids: Energy Storage, Electrification, and the Increasing Role of Power Electronics	SI Photovoltaics: Materials and Manufacturing	Grid Energy Storage Technology and Applications		
Yousu	Chen	Academic	6	Chinese	Computational Challenges for Power System Operation	High Performance Computational Advancements in Power Systems	Improve Real-time Operation with Advanced Computing			
Daniel	Kirschen	Academic	6		Can We Prevent Blackouts			Cyber Physical Systems Security for the Power Grid		
Henry	Louie	Academic	6		Community Microgrid Applications in Developing Communities	Energy Poverty and the Role of the Power Engineer	The IEEE Power & Energy Society: Benefits, Organization, History and Town Hall Discussion			
Vahid	Madani	Industry/ Utility	6		Disaster Recovery architecture development, Energy System Resiliency, business case roadmap development					
Anurag	Srivastava	Academic	6		Energy Management and Control for Active Distribution Systems	Smart Grid Technology	Synchrophasor Technology and Applications			
Mazana	Armstrong	Industry/ Utility	7		Utility's experience with AC interference between pipelines and power lines	Minimum Approach Distances and their impact on live-line maintenance of overhead				
Ali	Moshref	Industry/ Utility	7	French, Persian	Power Quality and Harmonics	Power System Grounding and Bonding	Fundamentals of Power System Planning and Operation			
David	Peelo	Consultant	7		Current Interruption in Atmospheric Air			Current Interruption Transients Calculation	Surge Arrester Application	Shunt reactor Switching
Dennis	Woodford	Industry/ Utility	7		Conversion of AC Transmission to DC	VSC Transmission with Overhead Transmission	Wind Farms Operation in Weak System			
Dragan	Jovicic	Academic	8		DC Transmission Grids: Components, Modelling, Control and Protection Challenges	DC/DC converters for DC Transmission Grids				
Emil	Levi	Academic	8		Integrated on-board battery chargers for electric vehicles	Multi-phase drive and generation systems	Multilevel multiphase drive systems: Topologies and PWM control			
Bruno	Meyer	Industry/ Utility	8	French, Portugese	Demand Side Management and Flexibility in Tomorrow's Power Systems	Electricity Markets in France	Smart Grids			
Federico	Milano	Academic	8		A Continuum-based Approach to Frequency Estimation	Workshop: Stochastic Algebraic-Differential Equations for Power System Modelling and Dynamic Analysis				
Jovica	Milanovic	Academic	8		Economic Impact of Voltage Sags and Short Interruptions	Global Control of Sustainable Power Systems	Operation and Control Challenges in Future Sustainable Power			
Mohamd	Moursi	Academic	8		Optimal Design and Operation of Hybrid Renewable Power Plant with Dispatching Capability			FlexGrid Platform: Flexible Power Grid Technologies Toward 100% Renewable Energy Integration	Control Strategies for Hybrid AC/DC Transmission Power Grids with Renewable Energy Integration	
Mark	O'Malley	Academic	8		Harvesting Renewable Energy: The Grid Integration Challenge	Operation and Planning Power System with Ultra-high Wind Penetrations: Research Questions and Results	Wind Grid Integration Studies: Ireland a Case Study			
Bikash	Pal	Academic	8		Flexible AC Transmission System Modeling and Control	Robust Control in Power Systems				
Lina	Tjernberg	Academic	8		Asset Management with power system applications	Power system reliability assessment	Smart Grid: European and Swedish experience			
Costas	Vournas	Academic	8	Greek	Power System Dynamics	Voltage Stability	Wind Power Integration			
Xiao	Zhang	Academic	8	Chinese	Congestion Management and Transfer Capability Enhancement using FACTS	Voltage Stability of Unbalanced Three Phase Power Systems	Wave Generation Technologies			
Luiz	Barroso	Industry	9	Portages, Spanish	Efficient Practices for Electricity Auctions and Energy Procurement	Electricity Markets Economics and Deregulation in Fast-growing (emerging) Markets	Hydrothermal Scheduling and Coordination in Electricity Markets			

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Edson	Bortoni	Academic	9	Portages	Renewable power generation and storage systems	Energy Demand forecast allied to energy efficiency measures	Electrical machines in a changing world	Sensors for the energy industry		
Jorge	Daher	Industry/ Utility	9	Spanish	Diagnostic of High Voltage Insulation					
Salvador	Daza	Industry	9	Spanish	Modeling Analysis for Modern Electrical Systems	Power Systems Economic Operation	Reactive Power and Voltage Control on Electrical Networks			
Juan	Gomez	Academic	9	Spanish	Medium and Low Voltage Fuses	Overcurrent Protection (Transformer, Motor, Semi-conductors)	Power Quality			
Jose	Jardini	Academic	9	Portages, Spanish	HVDC Line Design	HVDC Vs. HVAC Economic Evaluation				
Eduardo	Ortiz	Academic	9	Spanish	Learnings of the Complete Power Grid: Destruction in Puerto Rico by Hurricane Maria	Cyber-Physical Systems (CPS) Applied to Nonlinear Modeling and Control of Photovoltaic Power Systems	Understanding the History of Fuel Cells (FC) from 1860 until 2010			
Guillermo	Rodriguez	Industry	9	Spanish				Distribution Systems Introduction	Distribution Systems Planning	
Hugh	Rudnick	Academic	9	Spanish	Distribution Benchmark Regulation and Pricing	Long Term Supply Contract Auctions- the South American Model	Transmission Expansion in Deregulated Environment			
Enrique	Tejera	Industry	9	Spanish	Substation Maintenance					
Mohd Zainal	Abidin Ab Kadir	Academic	10		Achieving the Best Practices in Lightning Protection System	Evaluation of Lightning Performance of Transmission Line	Fundamental of Insulation Coordination Studies			
Babak	Badrzadeh	Industry/ Utility	10		Power system operation with high share of inverter-based resources	Electromagnetic transient simulation models for large-scale system impact studies in power systems having a high penetration of inverter-based resources		The role of system strength and inertia management in transitioning to higher share of inverter-connected generation		
Tianshu	Bi	Academic	10	Chinese	Power System Protection Technology with High Proportion Power Electronic Devices	Synchronized Measurement Technology and Its Potential Applications				
Jinliang	He	Academic	10	Chinese	The Development of Gas-insulated Transmission Lines	Lightning Protection Technologies of Power Systems	The Development and Applications of Surge Arresters for Lightning Protection of transmission Lines			
Syed	Islam	Academic	10		Condition Monitoring of Wind Turbine Generators	A Journey on Frequency Response Analysis for Power Transformer Fault Detection- Offline to Online	Technological Advances in Grid Code Compliance, High Penetration and Drive Train Diagnostics of Wind Energy Conversion Systems			
Chongqing	Kang	Academic	10	Chinese	Smart meter big data analytics	Modeling and optimization of multiple energy systems	Integrating High Share of Variable Renewable Energy in Bulk Power Systems			
Shrikrishna	Kulkarni	Academic	10		Transformers Design Principles and Advanced FEM Analysis	Revisiting Electromagnetic Concepts Relevant to Power Equipment and Systems	Hysteresis Phenomena in Transformers and Rotating Machines: Physics and Modeling			
Pierluigi	Mancarella	Academic	10		Multi-Energy Systems: An introduction to the Smart Grid beyond electricity	Power Systems Resilience: Concepts, Models and Assessment	Techno-economic modelling and optimization of smart buildings, smart districts, community-based energy systems, and microgrids			
Nilesh	Modi	Industry/ Utility	10		New and emerging bulk power system security challenges	Large-scale Electromagnetic Transient model for assessing impacts of high penetration of inverter-based resources on power system security		Power system operation with a high share of inverter-based resources		
Ming	Ni	Industry/ Manufacturing	10	Chinese	Regional and Inter-regional Value-based Transmission Planning	Power System Security and Stability: Current Status and Development Trends	Smart Grid and Ubiquitous Power Internet of Things			
Luis	Ochoa	Academic	10	Spanish, Portuguese	Making our Distribution Smarter and Low Carbon: A Regulatory Perspective	New Approaches for the Control of Future Distribution Networks		Advanced Modelling of Smart Distribution Networks Using OpenDSS	Smart Grids: Concepts and Implementation in the European Context	
Tapan Kumar	Saha	Academic	10		Renewable energy integration to the grids	Transformer ageing diagnosis & condition monitoring		Transformer ageing diagnosis & condition monitoring		
Dean	Sharafi	Industry/ Utility	10		Operating Modern Power System under Uncertainty	Industry 4.0 and Energy Transition – How can the application of Big Data, analytics and advanced communication support the power industry				
Sri Nivas	Singh	Academic	10		Issues and Challenges for Wind Power Integration into Power Systems	Estimation of Grid Harmonics in the Presence of Renewable Energy Sources	Role of Forecasting in Power Systems			