

Ali Mehrizi-Sani

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Statement and Expertise

Tenured professor, industry consultant, and transnational educator. Consulting experience in engineering services, utility, manufacturing, and design sectors for private companies and government. Demonstrated research leadership, establishing and sustaining a program in power systems and electronics with over \$5.5M in funding, 2,100 paper citations, and international collaborators in the Americas, Europe, and Asia. Expertise in

- Integration and control of power electronically interfaced renewable energy resources;
- Control and optimization of microgrids; and
- Power electronics converter design and implementation.

Work Experience

School of EECS, Washington State University

Associate Professor (*tenured*; 2018–Present)

Assistant Professor (2012–2018)

Faculty Senator (2018–Present)

Pullman, WA

Jan. 2012 to Present

Technische Universität Graz (TU Graz)

Visiting Professor

Nov. 2014, Jan. 2016, Nov. 2016, and May 2018

Graz, Austria

Manitoba Hydro International (MHI)

Consultant

Winnipeg, MB

Jun. 2018 to Present

Smart Wires

Consultant

Union City, CA

May 2018 to Present

Physical Optics Corporation (POC)

Consultant

Torrance, CA

Aug. 2013 to Present

Education

University of Toronto

Ph.D. in Electrical Engineering

Dissertation: Control Strategies for the Next Generation Microgrids

Toronto, ON

Sept. 2007 to Aug. 2011

University of Manitoba

M.Sc. in Electrical Engineering

Thesis: Advanced Modulation Techniques for Power Converters

Winnipeg, MB

Sept. 2005 to Aug. 2007

Sharif University of Technology

B.Sc. in (i) Electrical Engineering and (ii) Petroleum Engineering

Tehran, Iran

Sept. 2000 to Jul. 2005

Professional Service and Activities

- *Editor*, IEEE Transactions on Power Systems, 2016–Present.
- *Editor*, IEEE Transactions on Energy Conversion, 2016–Present.
- *Editor*, IEEE Transactions on Power Delivery, 2012–Present.
- *Editor*, IEEE Power Engineering Letters, 2012–Present.
- *Editor*, Wiley International Transactions on Electrical Energy Systems, 2017–Present.
- *Chair*, IEEE PES Task Force on Dynamic System Equivalents, 2013–Present.
- *Secretary*, CIGRE Working Group C4.34 Applications of PMUs for Power System Dynamics, 2013–2017.
- *Contributing Member*, IEEE PES Task Forces on Real-Time Simulation • Dynamic Average Modeling Techniques • Microgrid Control • Analysis Tools for Distributed Resources • Modeling and Analysis of Electronically Coupled DER Interfacing Techniques for Simulation Tools, 2008–Present.

Select Awards

International Awards

- 2018: IEEE PES Outstanding Young Engineer Award
“FOR CONTRIBUTIONS TO CONTROL AND MANAGEMENT OF RENEWABLE ENERGY RESOURCES.”
- 2017: IEEE Mac E. Van Valkenburg Early Career Teaching Award
“FOR HIS ENTHUSIASTIC, CARING, AND CREATIVE TEACHING THAT HAS INCREASED EXCITEMENT, ENGAGEMENT, AND UNDERSTANDING IN ENGINEERING, FOR CONTRIBUTIONS TO THE SCHOLARSHIP OF TEACHING, AND FOR RECRUITMENT OF PRECOLLEGE STUDENTS.”
- 2015: IEEE PES PSDP Technical Committee Working Group Recognition Award

Institutional Awards

- 2017: WSU EECS Early Career Excellence in Research Award
- 2016: WSU VCEA Reid Miller Excellence in Teaching Award
- 2007–2011: Connaught Scholar
- 2007: Dennis Woodford Prize
“FOR MOST OUTSTANDING GRADUATE THESIS DEALING WITH POWER SYSTEMS MODELING AND SIMULATION.”

Evidence of Research Leadership and Productivity

Performance: Total number of citations: **2100**; *h*-index: **17** by Google Scholar. Books: **2**; Book chapters: **2**; Journal articles: **39 (+ 5 PENDING)**; refereed conference articles: **39**; invited talks: **27**. Supervising/ed **9** doctoral and **5** master’s students.

Sponsored Research: Total support raised from 2012 to 2018 is **\$5.5M**.



National Science Foundation (NSF)



Southern California Edison



Alstom Grid



M. J. Murdock Charitable Trust



WA Department of Commerce



New York Power Authority (NYPA)



Department of Energy (DOE)



Power Systems Engineering Research Center



Austrian Marshall Plan Foundation



Center for Aerospace Tech. Innovation



Manitoba Hydro International (MHI)



Electric Power Research Institute

Invited Talks.....

Enabling role of power electronics in power engineering education and research programs: Panel on *Reforming the Power Engineering Educational Curriculum*, IEEE PES General Meeting, Jul. 2017.

Update on microgrid control trends: Panel on *Microgrid Control*, IEEE PES General Meeting, Jul. 2014.

Resiliency of power systems by enhancing microgrid capabilities: Panel on *Microgrids and Resiliency*, IEEE PES Innovative Smart Grid Technologies (ISGT), Feb. 2014.

Control strategies for the next generation power system: Around 30 talks in universities and companies in the **AMERICAS**, **EUROPE**, and **ASIA** from 2012 to present as shown in the map to the right.

