

Ali Mehrizi-Sani | Associate Professor
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Education

University of Toronto **Toronto, ON**
Ph.D. in Electrical Engineering *Sept. 2007 to Aug. 2011*
Dissertation: Control Strategies for the Next Generation Microgrids

Sharif University of Technology **Tehran, Iran**
B.Sc. in (i) Electrical Engineering and (ii) Petroleum Engineering *Sept. 2000 Jul. 2005*

Academic Experience

School of EECS, Washington State University **Pullman, WA**
Associate Professor; Assistant Professor (2012–2018) *Jan. 2012 to Present*

Technische Universität Graz (TU Graz) **Graz, Styria, Austria**
Visiting Professor *Nov. 2014, Jan. 2016, Nov. 2016, and May 2018*

Centre for Applied Power Electronics (CAPE), University of Toronto **Toronto, ON**
Postdoctoral Fellow *Sept. 2011 to Dec. 2011*

Nonacademic Experience

Manitoba HVDC Research Centre **Winnipeg, MB**
Consultant *Jan. 2017 to Present*

Smart Wires **Union City, CA**
Consultant *Aug. 2013 to Present*

Physical Optics Corporation (POC) **Torrance, CA**
Consultant *Aug. 2013 to Present*

Digital Predictive Systems **Mississauga, ON**
NSERC/MITACS Intern *Jan. 2009 to Dec. 2010*

Manitoba HVDC Research Centre **Winnipeg, MB**
MITACS Intern *Apr. 2007 to Jul. 2007*

Expertise

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

Honors and Awards

At Washington State University (2012–Present)

- 2018: ASEE PNW Outstanding Teaching Award
- 2017: IEEE Mac E. Van Valkenburg Early Career Teaching Award
- 2017: WSU EECS Early Career Excellence in Research Award
- 2016: WSU VCEA Reid Miller Excellence in Teaching Award
- 2016: WSU EECS Teaching Excellence Award
- 2015: IEEE PES PSDP Technical Committee Working Group Recognition Award
- 2015: “Technical Committee Working Group Recognition Award” from IEEE PES PSDP Subcommittee
- 2014: National Academy of Engineering’s Frontiers of Engineering Education Selectee

At the University of Toronto (2007–2011)

- Govt of Canada NSERC Postdoctoral Fellowship
- Edward S. Rogers Sr. Graduate Scholarship
- NSERC/MITACS IPS (two times)
- NSERC Industrial Research & Development Fellowship
- Connaught Scholarship (four times)
- Ontario Graduate Scholarship (OGS)

At the University of Manitoba (2005–2007)

- Dennis Woodford Prize for “most outstanding graduate thesis dealing with power systems modeling and simulation.”
- MITACS Internship Program at Manitoba HVDC Research Centre

Professional Service & Activities

- *Editor*, IEEE Transactions on Power Systems.
- *Editor*, IEEE Transactions on Power Delivery.
- *Editor*, IEEE Transactions on Energy Conversion.
- *Editor*, IEEE Power Engineering Letters.
- *Editor*, Wiley International Transactions on Electrical Energy Systems.
- *Chair*, IEEE PES Task Force on Dynamic System Equivalents.
- *Secretary*, CIGRE Working Group C4.34 Applications of PMUs for Power System Dynamics.
- *Chair*, IEEE PES Chapter of the Palouse Section.

Summary of Research Leadership and Productivity

Performance: Total number of citations: 1900; *h*-index: 17 by Google Scholar. Books: 2; Book chapters: 2; Journal articles: 38 (+ 6 PENDING); refereed conference articles: 39; invited talks: 27. Supervising/ed 9 Ph.D. and 5 M.Sc. students.

Sponsored Research: Total support raised over 2012 to 2018 is \$5.4M.



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 HVDC Research Centre



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:

Ferdowsi University of Mashhad • Manitoba HVDC Research Centre • University of Manitoba • Case Western Reserve University • Microgrid Symposium • Tokyo Institute of Technology • National Polytechnic Institute (Guadalajara, Mexico) • Power Systems Engineering Research Center (PSERC) • Tsinghua U (China) • Wuhan U (China) • Graz U of Technology (Austria) • Arizona State U • Iowa State U • Florida State U • U of Maine • Tennessee Technological U • Washington State U • U of Utah • Colorado School of Mines • Oregon State U • U Hawai'i • U of British Columbia • Carleton U • U of Western Ontario.

