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# **Hamid A. Toliyat**Raytheon Endowed Professor



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Research Website (http://ece.tamu.edu/~empelab/index.htm)
Google Scholar Profile (http://scholar.google.com/citations?
user=aHlwUzMAAAAJ&hl&hl=en)

#### **Research Interests**

- Novel electric machines for different applications
- Condition monitoring and fault diagnosis of electric machinery
- Electric and Hybrid Electric Vehicles

- Electromechanical energy storage batteries
- Active power filters for power systems network
- Fuel cell operated electric motor drives
- Distributed Energy Systems; Wind Mills, Microturbines, Solar Power Plants
- Smart Grids and their components
- Auxiliary power generators
- Power converters for electric machines including multilevels
- Uninterruptible power supplies (UPS)
- Sensors and Sensorless electric motor drive and spindle motors
- DSP-based power electronics systems
- Simulation techniques such as finite elements analysis and Pspice and Saber.
- Consulting in related fields and serving as an expert witness

### **Awards & Honors**

**IEEE Fellow** 

IEEE Nikola Tesla Award

Best Paper Second Prize Award, IEEE Industrial Electronics Society, Electrical Machine Technical Committee, IECON 2008.

IEEE Industry Applications Society Executive Board, Member, Jan. 2008- Dec. 2009.

Prize Paper Award, IEEE Power Engineering Society (PES), 2007.

Prize Paper Award, IEEE Power Engineering Electric Machinery Committee, 2007.

Patent and Innovation Award, Texas A&M University System Office of Technology Commercialization's, 2007.

TEES Fellow Award, Texas Engineering Experiment Station (TEES), \$5000.0 prize award, Fall 2006.

Third Prize Transactions Paper Award, IEEE Industry Applications Society, 2006.

Professional Engineer, State of Texas, P.E. # 97974.

Outstanding Professor Award, Department of Electrical and Computer Engineering, Texas A&M University, \$5000.0 prize award, Fall 2005.

Cyrill Veinott Electromechanical Energy Conversion Award, IEEE Power Engineering Society, \$5000 prize award, 2004.

TEES Fellow Award, Texas Engineering Experiment Station (TEES), \$5000.0 prize award, Fall 2004.

Editor, IEEE Transactions on Energy Conversion, 2001-present.

Distinguished Achievement Award, in recognition of distinguished achievements in teaching, Association of Former Students, Texas A&M University, Fall 2003, \$2000 prize award.

E.D. Brockett Professorship Award, Texas Engineering Experiment Station (TEES), \$4000.0 prize award, 2002-2003.

Appeared on People's Agenda talk show of KERA 90.1 Dallas/Fort Worth/ Denton on "Fuel Cell Research and other Aspects of Automotive Research," January 7, 2003, 10:00 AM-11:00 AM.

Member of Editorial Board, The Institution of Engineering and Technology, Electric Power Applications, United Kingdom, Sep. 2007 – present.

Schlumberger Foundation Technical Awards, \$25,000 prize award, April 2001.

Eugene E. Webb'43 Faculty Fellow Award, Texas Engineering Experiment Station (TEES), , \$5000.0 prize award, for "Overall contribution to the Engineering Program including classroom instruction, scholarly activities and professional service", 2000-2001.

Select Young Investigator Award, Texas Engineering Experiment Station (TEES), \$5000.0 stipend, 1999.

Schlumberger Foundation Technical Awards, \$30,000.0 prize award, April 2000.

Space Act Award by NASA Inventions and Contributions Board, \$250.0 prize award, April 1999.

Prize Paper Award, Electric Machinery Committee of the IEEE Power Engineering Society, Best Transactions paper, 1996.

#### **Education**

Ph.D., University of Wisconsin-Madison, May 1991

MS, West Virginia University, May 1986

BS, Sharif University of Technology, Iran, May 1982

## **Selected Publications**

DSP-Based Electromechanical Motion Control, CRC Press, Florida, 2003, 344 pages.

Handbook of Electric Motors, 2nd Edition, Marcel Dekker, New York, 2004, 805 pages.

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