BIOGRAPHICAL DATA

- Ehsani, Mehrdad (Mark)
- Professor, Electrical Engineering
- Birth date: 10/9/50
- Citizenship: U. S.
- Marital Status: Married
- Number of Children: Three
- Last Security Clearance: Secret

ADDRESS

Work: Texas A&M University
Department of Electrical Engineering
College Station, Texas 77843

PROFESSIONAL INTERESTS

- Electronics
- Solid State Power Systems
- Power Electronics
- Motor Drives
- Specialized Power Systems
- Control Systems
- Energy Storage Systems
- High Voltage Direct Current (HVDC) Power Transmission
- Applications of Microcomputers to Power Control
- Pulsed Power Systems
- Electric Hybrid Vehicles
- High Voltage Engineering
- Electrical Failures and Hazards
- Advanced Vehicle Power and Propulsion Systems
- Novel Electromagnetic Machines
- Sustainable Energy and Transportation

EDUCATION

- Ph. D., Electrical Engineering, University of Wisconsin, Madison, 1981
- M. S., Electrical Engineering, University of Texas, Austin, 1974
- B. S., Electrical Engineering, University of Texas, Austin, 1973

EXPERIENCE

- **Educational**

1. Assistant Professor, Electrical Engineering, Texas A&M University, August 1981-1987

2. Associate Professor of Electrical Engineering, Texas A&M University, September 1987-1992

3. Professor, Electrical Engineering, Texas A&M University, 1992-present

4. Director, Texas Applied Power Electronics Center, Department of Electrical Engineering, Texas A&M University, 1982-present

5. Director of Advanced Vehicle Systems Research Program, College of Engineering, Texas A&M University, 1992-present

- **Industrial**

1. Research Engineer, Fusion Research Center, Austin, Texas, 1974-1977

2. Research Engineer, Argonne National Laboratory, 1977-1981

3. Consultant to over 65 U.S. and International Companies and Government Agencies

PROFESSIONAL SOCIETY MEMBERSHIPS

- Institute of Electrical and Electronics Engineers (IEEE), since 1970
- IEEE Industry Applications Society (IAS)
- IEEE Industrial Electronics Society (IES)
- IEEE Power Electronics Society (PELS)
- IEEE Vehicular Technology Society (VTS)
- Society of Automotive Engineers (SAE)
- Registered Professional Engineer, Texas No. 57178

HONORS/AWARDS

1. Fellow of IEEE

2. Fellow of SAE

2. Outstanding Young Engineer of the year, 1984, Brazos Chapter, Texas Society of Professional Engineers.

3. Prize Paper First Place Award in Power Electronics, IEEE Industry Applications Society, 1985 and 1987 Annual Meetings.

4. Engineering Excellence Award ($24,000), College of Engineering, Texas A&M University, 1986 and 1987.

5. Chief Editor for Power Systems Series, CRC Press, 1989.

6. General Chair, IEEE-PELS Power Electronics Specialists Conference, 1990.

7. Member of Editorial Board of Electric Machines and Power Systems Journal.

8. IEEE-Industrial Electronics Society Distinguished Speaker.

9. Plenary Session Author in IEEE Power Electronics Specialists Conference for 1990 and 1991.

10. Invited Author at IEEE Applied Power Electronics Conference and Exposition, Boston, February 1992.

11. Invited Author at 1992 International Symposium on Power Electronics, Seoul, Korea, April 1992.

12. Invited Author at International Aegean Conference on Electrical Machines and Power Electronics, Kusadasi, Turkey, May 1992.

13. Prize Paper Third Place Award in Motor Drives, IEEE Industry Applications Society 1992 Annual Meeting.

14. Invited Author and Panelist at 2nd International Power Electronics Congress, Cuernavaca, Mexico, August 1993.

15. IEEE Industry Application Society Distinguished Speaker and Invited Author at II Brazilian Power Electronics Conference, Umberlandia, Brazil, December 1993.

16. Plenary Session Author in IEEE Power Electronics Specialists Conference for 1993.

17. Winner of IEEE IAS 1993 Annual Meeting Prize Paper Award from the Motor Drives Committee.

18. Invited Author at Southcon Technical Conference, Orlando Florida, March 1994.

19. Member of the Scientific Committee of the 1st International Power Electronics and Motion Control Conference, Beijing, China, June 1994.

20. Invited Author in 1st International Power Electronics and Motion Control Conference, Beijing, China, June 1994.

21. Member of the Advisory Committee of Second International Workshop on "The Future of Electronic Power Processing and Conversion," Berg-en-dal, South Africa, August 1994.

22. General Chairman of 3rd International Power Electronics Congress, Puebla, Mexico, August 1994.

23. Listed in Who's Who in America, 49th through current Editions.

24. Listed in American Men and Women of Science.

25. Listed in Who is Who in the South and Southwest.

26. Invited Short Course in Tel Aviv University, Israel, May 1995.

27. Invited Paper in International Aegean Conference on Electrical Machines and Power Electronics, Kusadasi, Turkey, June 1995.

28. Member of Steering Committee, World Congress of Industry Leaders and Educators, Fair of Engineering Innovations and UNESCO-UNISPAR Seminar, sponsored by Jozef Zych, Speaker of Polish Parliament, October 1996.

29. Invited Short Course on "Sensorless variable reluctance machines," IEEE Industry Applications society 1996 Annual Meetings, October 1996.

30. Member of Steering Committee of the 1st International Congress in Israel on Energy, Power & Motion Control, Tel-Aviv, Israel, November 1996.

31. Honorary Professor of Electrical Engineering, The University of Hong Kong, 1996.

32. Blue Ribbon University Lecture at US Department of Transportation, Research and Special Programs Administration, "Electrically Peaking Hybrid (ELPH) Vehicles: A Sustainable Technology for the 21st Century," Washington, DC, April 25, 1997.

33. Mahdavi, A. Emadi, M. D. Bellar and M. Ehsani, "Analysis of Power Electronic Converters Using the Generalized State Space Averaging Approach," Invited Paper for Special Issue of IEEE Transactions on Circuits and Systems on Simulation, Theory and Design of Switched Analog Networks, IEEE Trans. on Circuit s and Systems, vol. 44, no. 8, August 1997.

34. Invited Paper on "Soft Switching Motor Drive Inverters for Electric and Hybrid Vehicles," in IEEE Industrial Electronics Annual Meeting, IECON'97, New Orleans, Louisiana, November 1997.

35. Invited Panelist on "Trends in Power Electronics and Motor Drives," Invited Paper in IEEE Industrial Electronics Annual Meeting, IECON'97, New Orleans, Louisiana, November 1997.

36. Elected IEEE Industry Applications Society Distinguished Lecturer, 1998-99.

37. Invited Lecture, entitled "Modern Motor Drives for Industrial and Product Applications," IEEE Chapter Meeting, Little Rock Arkansas, January 22, 1998.

38. National Science Foundation Site Reviewer for NSF Center Proposal, Blacksburg, Virginia, Jan. 19-22, 1998.

39. Invited Speaker, IEEE Power Engineering Society Section Meeting, Columbus, Ohio, March 31, 1998.

40. Key Note Speaker, Southeast Michigan Section Spring Meeting, April 2, 1998, Dearborn, Michigan.

41. Invited Key Note Speaker on "State of The Art in Power Electronics and Motor Drives," Vicenza Trade Fair and Workshop, Vicenza, Italy, May 15, 1998.

42. Invited Seminar at Toshiba Small Motor Development Center, "Advanced Switched Reluctance Motor Drives for Industrial and Traction Applications," July 14, 1998.

43. M. Ehsani, R. Velayutham, S. Gopalakrishnan, and B. Fahimi, "Sensorless Control of Switched Reluctance Motor: a Technology Ready for Applications," Invited Paper, International Conference on Electrical Machines, Istanbul, Turkey, September 2-4, 1998.

44. Member of Program Committee, International Conference on Electronics, October 1998, Oran, Algeria.

45. Invited Paper, entitled "Switched Reluctance Motor Drives: State of the Art and Applications," 1998 Special Issue of Indian Academy of Sciences.

46. Member International Steering Committee, The IEEE International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives, Gijon, Spain, September, 1999.

47. Organizer and Plenary Paper Presenter for Invited Session at 1999 International al Federation of Automatic Control (IFAC) World Congress in Beijing, China: Advances in Rear-Time DSP Control of Stiff Systems.

48. Organizer Presenter for Tutorial Session at 1999 American Control Conference (ACC) in San Diego, California: Advances in Real-Time Control of Motor Drive Systems.

49. Listed in Dictionary of International Biography, Cambridge, England, 27th Edition, 1999.

50. Member of International Steering Committee of IEEE International Power Electronics Congress, Acapulco, Mexico, 2000.

51. Member of Technical Program Committee of Forth International Power Electronics Conference (IPEC-Tokyo 2000).

52. Member of Technical Program Committee of 3rd International Power Electronics and Motion Control Conference (IPEMC, 2000).

53. Appointed as the Distinguished Lecturer of IEEE Power Engineering Society, 1999-2000.

54. Member of International Steering Committee of the 1999 IEEE International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives, September 1-3, Spain.

55. Invited Seminar to the Local Chapter of IEEE in Istanbul, Turkey on "State of the Art in Power Electronics and Motor Drives," August 27, 1998.

56. Invited Seminar to the Local Chapter of IEEE in Paris, France on "An Over View and State of the Art in Hybrid Electric Vehicles," September 23, 1999.

57. Invited Seminar to the Local Chapter of IEEE in Heidelburg, Germany on "State of the Art and Recent Applications of Switched Reluctance Motor Drives," November 19, 1999.

58. Invited Seminar at the Swiss Federal Institute of Technology on "State of the Art on Sensorless Switched Reluctance Motors," Zurich, Switzerland, May 9, 2000.

59. Invited Short Course at Tel Aviv University on "Hybrid Electric Vehicles," Tel Aviv, Israel, May 23-25, 2000.

60. Invited Seminar at Techneon University on "State of the Art on Electric and Hybrid Vehicles," Haifa, Israel, May 29, 2000.

61. Invited Presentation in First Snead Research Institute Workshop on Fuel Cell Hybrid Track Vehicles, August 1-3, 2000, Georgetown, Texas.

62. Advisor to the Board of Directors of Snead Research Institute.

63. Listed in International Who's Who of Professionals, 2001.

64. Member of International Steering Committee of VII IEEE Power Electronics Congress, Acapulco, Mexico, October 2000.

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