Babak Ganji, PhD

Assistance Professor at University of Kashan, Iran (Feb 2009 to present)

Birthday: September 17, 1977

Marital Status: Married

Address: No. 33, Alavinejad Ave., North Banafshe St., Golkhane St., KhaneEsfahan, Esfahan, Iran

Phone: +98 913 325 0668, Email: bganji@kashanu.ac.ir

Educational Background

Sept. 2002 - Dec. 2008	PhD in Electrical Engineering – Power School of Electrical and Computer Engineering, University of Tehran, Iran Total Passed Units : 24, GPA: 17/20 Comprehensive Exam: 17/20 Thesis Title : Electromagnetic and Thermal Modeling of Switched Reluctance Motor using Finite Element Method (ANSYS) Supervisor : Prof. Jawad Faiz (University of Tehran) Co-advisor : Prof. Rik W. De Doncker (RWTH Aachen University)
Sept. 2000 - Jul. 2002	Master of Science in Electrical Engineering – Power School of Electrical and Computer Engineering, University of Tehran, Iran Total Passed Units: 32, GPA: 16.8/20 Thesis Title: Core Losses Modeling of Switched Reluctance Motor Supervisor : Prof. Jawad Faiz
Sept. 1996 - Jul. 2000	Bachelor of Science in Electrical Engineering – Power Faculty of Electrical and Computer Engineering, Esfahan University of Technology, Esfahan, Iran Total Passed Units: 141, GPA: 15.7/20

Favorite Field

Design of Electric Machines

Award

German Academic Exchange Service (DAAD) Research Fellowship in 2006

Academic Experience

- ✓ Jun. 2006 - Dec. 2006 : Visiting Researcher - Institute for Power Electronics and Electrical Drives, RWTH Aachen University, Germany (www.isea.rwth-aachen.de)
- ✓ May. 2009 - Sept. 2009 : Teaching - Azad University, Electrical Machine II and Electrical Machine III for Electrical Eng. B.Sc. students (www.iaukhsh.ac.ir)
- ✓ Feb. 2009 to present : Assistance Professor at university of Kashan: Teaching - Electrical Machine I, Basic Electrical Engineering, Electric Circuit 1, Special Electric Machine, High Voltage and Insulation Technology, (www.kashanu.ac.ir)

Publications

Conference papers

1. J. Faiz, **B. Ganji**, "Determination of core Losses of Switched Reluctance Motor based on Design Parameters", Proceedings of 11th Iranian Conference on Electrical Engineering, Shiraz, Iran, vol. 4, pp. 63-70, 2003. (Persian)

2. J. Faiz, **B. Ganji**, M. Moallem, K. Moayedzadeh "Comparison of an Analytical Model with Improved Magnetic Equivalent Circuit Model for Prediction of Dynamic Characteristics of Switched Reluctance Motor based on Experimental Results", Proceedings of 11th Iranian Conference on Electrical Engineering, Shiraz, Iran, vol. 4, pp. 71-77, 2003. (Persian)

3. J. Faiz, **B. Ganji**, P. Pillay, C. Yicheng, "Analytical Core Loss Model for Switched Reluctance Motor with Experimental Verification", Proceeding of the 9th International Conference on Optimization of Electrical and Electronic Equipments (OPTIM 2004), Brasov, Romania, vol. 2, pp. 47-52, 2004.

4. J. Faiz, **B. Ganji**, R. De Doncker, J. Fiedler, "Electromagnetic Modeling of Switched Reluctance Motor using FEM", The 32nd Annual Conference of the IEEE Industrial Electronics Society, IECON'06, France, pp. 1557-1562, 2006.

Journal papers

1. R. Aghazadeh, H. Lesani, M. Sanaye-pasand, **B. Ganji**, "New Technique for Frequency and Amplitude Estimation of Power System Signals ", IEE Proceedings Generation, Transmission and Distribution, vol. 152, Issue 3, pp. 435- 440, 2005.

2. J. Faiz, **B. Ganji**, P. Pillay, C. Yicheng, "Analytical Core loss Model for the Switched Reluctance Motor with Experimental Verification", Journal of Electrical Engineering: Volume 6 / 2006 - Edition: 3, Article 6.3.2, www.jee.ro.

3. J. Faiz, **B. Ganji**, C. E. Carstensen and R. W. De Doncker, "Loss Prediction in Switched Reluctance Motors Using Finite Element Method", *Euro. Trans. Electr. Power*, vol. 19, pp. 731-748, 2009.

4. J. Faiz**, B. Ganji**, C. E. Carstensen, K. Kasper and R. W. De Doncker, "A Temperature Rise Analysis of Switched Reluctance Motors using Finite Element Method, *IEEE Trans. on MAGNETICS*, vol. 45, no. 7, pp. 2927-2934, 2009.

5. **B. Ganji**, J. Faiz, K. Kasper, C.E. Carstensen and R.W. De Doncker, "Core Loss Model Based on Finite-Element Method for Switched Reluctance Motors", IET Electr. Power Appl., vol. 4, Iss. 7, pp. 569-577, 2010.