

Curriculum Vitae



Mohsen Ferdowsi

Postal Address E.ON Energy Research Center (E.ON ERC), RWTH-Aachen University

Institute for Automation of Complex Power Systems (ACS)

Mathieustraße 10, Main Building

D-52074 Aachen

Germany

Telephone +49 241 80 49732

Email mferdowsi@eonerc.rwth-aachen.de

Personal Information

Birth date: 20 July 1984

Place of birth: Esfahan, Iran

Marital status: married

Education

09.2001 – 07.2007 University of Tehran (Tehran, Iran)

Degree: Master of Science (M.Sc.)

Field of Study: Electrical Engineering

Major: Electric machines and power electronics

GPA 18.46/20.0

09.2007 – 10.2009 University of Tehran (Tehran, Iran)

Degree: Bachelor of Science (B.Sc.)

Field of Study:	Electrical Engineering
Major	Power engineering
GPA	17.00/20.0 (17.98 during last two years)
Major:	Power engineering

Work and Research Experience

- 01.2012 – present **Research Associate**, RWTH Aachen University, E.ON Energy Research Center, Institute for Automation of Complex Power System (ACS)
- 12.2009 – 12.2011 **Research Associate**, Technical University of Berlin (TU Berlin), Department of Electrical Engineering and Computer Science, Chair of Sustainable Electric Networks and Sources of Energy (SENSE)
- 06.2008 – 10.2009 **Research Assistant**, University of Tehran, School of Electrical and computer Engineering, Industrial Electronics & Electrical Drives Laboratory (IED Lab)
- 07.2006 – 02.2007 **Power system engineer**, University of Tehran, “Monitoring the Power & Ancillary Services Markets in Iran: Developing market power indices and designing software for graphical visualizations and analysis of these metrics as means of market power indicators”, funded by Electricity Market Regulatory Board of Iran, directed by Professor Ashkan Rahimi Kian
- 07.2005– 09.2007 **Trainee engineer**, Iranian Power Research Center (MATN), under supervision of Professor Hassan Monsef

Publications

Papers

- 02.2012 1. E. T. Bower, J. A. Peças Lopes, F. J. Soares, D. Rua, N. Hatziargyriou, K. Strunz and **M. Ferdowsi**, “Initial Findings of ‘MERGE’ (Mobile Energy Resources in Grids of Electricity),” International Journal of Automotive Engineering (IJAE), Vol. 3, No.1, pp. 35-40, Feb. 2012.
- 09.2011 2. A. F. Raab, **M. Ferdowsi**, E. Karfopoulos, S. Skarvelis-Kazakos, I. Grau Unda, P. Papadopoulos, E. Abbasi, L.M. Cipcigan, K. Strunz, N. Hatziargyriou, N. Jenkins, “Virtual Power Plant Control Concepts with Electric Vehicles,” presented at the 16th International Conference on Intelligent System Application on Power Systems (ISAP 2011), September 2011, Hersonissos, Crete, Greece.
- 05.2011 3. E. T. Bower, J. A. Peças Lopes, F. J. Soares, D. Rua, N. Hatziargyriou, K. Strunz, **M. Ferdowsi**, “MERGE: (Mobile Energy

Resources in Grids of Electricity), A European Commission Funded Project Addressing The Impact Of The Roll-out Of Electric And Plug-in Hybrid Vehicles On Grid Infrastructure,” presented at EVTeC'11, May 2011, Yokohama, Japan. Available at: <http://papers.sae.org/2011-39-7212>

- 10.2010 4. N. Hatzigiorgiou, J. A. Peças Lopes, F. J. Soares, D. Rua, P. M. Rocha Almeida, N. Downing, E. Bower, K. Strunz, **M. Ferdowsi**, E. Abbasi, V. Lioliou “Mobile Energy Resources in Grids of Electricity: the EU MERGE Project,” 2nd European Conference SmartGrids & E-Mobility, October 2010, Brussels, Belgium. Available at: http://www.ev-merge.eu/images/stories/SmartGrids_E-mobility_v4.pdf

Technical Reports

- 12.2012 1. **M. Ferdowsi**, “Power Quality Assessment”, Mobile Energy Resources in Grids of Electricity, Deliverable D2.3, Dec 2011. Available at: http://www.ev-merge.eu/images/stories/uploads/MERGE_WP2_D2.3_final.rar
- 10.2010 2. **M. Ferdowsi**, I. Grau Unda, E. Karfopoulos, P. Papadopoulos, S. Skarvelis-Kazakos, L.M. Cipcigan, A. F. Raab, A. Dimeas, E. Abbasi, K. Strunz, “Controls and EV Aggregation for Virtual Power Plants”, Mobile Energy Resources in Grids of Electricity, Deliverable D1.3, October 2010. Available at: http://www.ev-merge.eu/images/stories/uploads/MERGE_WP1_D1.3_Final.pdf
- 08.2010 3. Bending, **M. Ferdowsi**, S. Channon, K. Strunz, “Specification for an Enabling Smart Technology”, Mobile Energy Resources in Grids of Electricity, Deliverable D1.1, August 2010. Available at: http://www.ev-merge.eu/images/stories/uploads/MERGE_WP1_D1.1.pdf
- 05.2010 4. N. Downing, **M. Ferdowsi**, “Identification of Traffic Patterns and Human Behaviours”, Mobile Energy Resources in Grids of Electricity, Deliverable D1.1, May 2010. Available at: http://www.ev-merge.eu/images/stories/uploads/MERGE_WP1_D1.1.pdf

Teaching Experience as Teaching Assistant

- 10.2011 – 12.2011 Network Integration of Renewable Energy Resource, Taught by Professor K. Strunz, TU Berlin
- 10.2010 – 02.2011 Network Integration of Renewable Energy Resource, Taught by Professor K. Strunz, TU Berlin
- 03.2009 – 07.2009 Industrial Electronics, taught by Professor B. Asaei, University of Tehran
- 10.2008 – 02.2009 Electric Machines II, taught by Professor M.T. Nabavi, University of Tehran
- 10.2008 – 02.2009 Fundamentals of Electrical Engineering I, taught by Professor B. Asaei, University of Tehran

03.2009 – 07.2009	Industrial Electronics, taught by Professor B. Asaei, University of Tehran
03.2008 – 07.2008	Electric Machines I, taught by Professor M.T. Nabavi, University of Tehran
03.2007 – 07.2007	Electric Machines III, taught by Professor M.T. Nabavi, University of Tehran
03.2006 – 07.2006	Power System Analysis I, taught by Professor H. Monsef, University of Tehran

Honors and Awards

04.2007 – 10.2009	Ranked 2 nd among all power engineering graduate students in University of Tehran
09.2007 – 10.2009	Grouped as exceptional talent in 6 semesters out of 10 during B.Sc. studies
09.2007 – 03.2009	Ranked 1 st among all power engineering graduate students in University of Tehran
05.2007	Ranked 25 th in the national graduate entrance examination for M.Sc. studies in power engineering in Iran among nearly 10,000 participants
09.2007 – 10.2009	Grouped as exceptional talent in studies and in 5 out of 5 semesters in M.Sc. studies
08.2002	Ranked 31 th in the national university entrance examination among more than 450,000 participants, summer 2002

Skills

Languages	<p>Farsi: Mother tongue</p> <p>English: Fluent</p> <p>TOEFL exam (10/12/2008), Overall score: 106/120 – Reading: 27/30, Listening: 28/30, Speaking: 23/30, Writing: 28/30</p> <p>GRE exam (10/25/2008), Verbal: 480/800, Quantitative: 800/800, Analytic Writing: 3.0/6</p> <p>German: Medium</p> <p>Arabic: Familiar</p>
Computer	<p>General Software: Windows, Microsoft Office</p> <p>Technical Software: PSCAD, PSS/E, PSpice, COMSOL Multiphysics, MATLAB (including many of the toolboxes such as SimPowerSystems,</p>

Curve Fitting, Fuzzy Logic, Genetic Algorithm and Direct Search, Optimization, as well as PSAT and MATPOWER)

Programming Languages: C++, MATLAB

Hobbies and Interests

Reading history, literature, psychoanalysis and psychology, philosophy of science

Sports Taekwondo, swimming, track and field

References

References are available upon request.