

Saeed Mohajeryami

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Academic Background

Aug 2012- Now	<u>University of North Carolina at Charlotte</u>	NC,USA
PhD in Electrical Engineering, GPA=4/4		
Jan 2013- May 2016	<u>University of North Carolina at Charlotte</u>	NC,USA
M.Sc. in Economics/ Applied Economic Analysis, GPA=4/4		
Sept 2008-Feb 2011	<u>University of Tehran</u>	Tehran,Iran
M.Sc. in Power Engineering/High Voltage, GPA=17.07/20		
Sept 2003- Feb 2008	<u>Ferdowsi University of Mashhad</u>	Mashhad,Iran
B.Sc. in Electrical Engineering/Power, GPA=15.52/20		

Awards and Honors

- 2003 Ranked 980th among more than 420,000 participants in the national undergraduate university entrance exam (Top 1%)
- 2008 Ranked 161th among more than 20,000 participants in the national graduate studies entrance Examination (Top 1%)
- 2012 Tuition award from the University of North Carolina at Charlotte for five years.

Research Interests

- Electricity Market
- Data Analytics
- Smart Grid
- Demand Response
- Distributed Energy Resources

Publications

Working papers

WJ2. **S. Mohajeryami**, M. Doostan , A. Asadinejad, and P. Schwarz, "Error Analysis of Customer Baseline Load (CBL) Calculation Methods for Residential Customers", (under review) *IEEE Transactions on Industry Application*

WJ1. **S. Mohajeryami**, A. R. Neelakantan , I. N. Moghaddam and Z. Salami, "An Investigation of Dead-band Controller Impact on Governor Model Frequency Response", (under review) to *International Journal of Emerging Electric Power Systems*

Journal Papers

J7. **S. Mohajeryami** , M. Doostan, and P. Schwarz, "The Impact of Customer Baseline (CBL) Calculation Methods on Peak Time Rebate Program Offered to Residential Customers," *Electric Power System Research* , 2016, DOI:10.1016/j.epsr.2016.03.050

J6. **S. Mohajeryami**, I.N. Moghaddam, M. Doostan, B. Vatani, P. Schwarz, "A Novel Economic Model for Demand Response to TOU Pricing ", *Electric Power System Research*, 2016, DOI:10.1016/j.epsr.2016.03.026

J5. A. Asadinejad, MG. Varzaneh, **S. Mohejeryami**, M. Abedi, "Using Biomass in Power Generation for Supplying Electrical and Thermal Energy in Iran and Evaluation of Environmental Pollution Spread", *Journal of Energy and Power Engineering*, Vol. 10, pp. 55-63, 2016, DOI: 10.17265/1934-8975/2016.01.007

J4. M. Doostan, B. Vatani , **S. Mohajeryami**, "An Investigation of Evergreen Solar Inc. Bankruptcy by Considering Financial and Engineering Facets", in *Reports on Economics and Finance*, Vol. 1, No. 1, pp.115-126, 2015, DOI: 10.12988/ref.2015.5108

J3. **S. Mohajeryami**, "Areva Inc. post Fukushima economic and management challenges", *Journal of Advanced Research in Management*, Vol. 6, No. 11, 2015, DOI: 10.14505/jarm.v6.1(11).03

J2. R. Morsali, N. Ghadimi, M. Karimi, **S. Mohajeryami**, "Solving a Novel Multiobjective Placement Problem of Recloser and Distributed Generation Sources in Simultaneous Mode by Improved Harmony Search Algorithm", *complexity journal*, DOI 10.1002/cplx.21567

J1. H. Abniki, M.T Nabavi Razavi, **S. Mohajer Yami**, "Harmonic Analysis of Induction Motor by Comsol Multi-Physic Software", *International Review on Modelling and Simulations (I.RE.MO.S)*, Vol. 3, N.5, Oct 2010

Conference Papers

C20. B. Vatani, **S. Mohajeryami**, S. Dehghan, N. Amjady, "Self-Scheduling of Generation Companies via Stochastic Optimization Considering Uncertainty of Units", (accepted) in IEEE Power and Energy Society General Meeting, Boston, July 2016

C19. **S. Mohajeryami**, A. Asadinejad, M. Doostan, "An Investigation of the Relationship between Accuracy of Customer Baseline Calculation and Efficiency of Peak Time Rebate Program", in Power and Energy Conference at Illinois (PECI), 2016

C18. **S. Mohajeryami**, M. Doostan, "Probabilistic approach in evaluation of backflashover in 230kV double circuit transmission line", in IEEE PES Transmission and Distribution (T&D), Dallas, May 2016

C17. **S. Mohajeryami**, M. Doostan, "Including Surge Arresters in the Lightning Performance Analysis of 132kV Transmission Line", in IEEE PES Transmission and Distribution (T&D), Dallas, May 2016

C16. **S. Mohajeryami**, M. Doostan, "Investigating the Lightning Effect on Compact Transmission Lines by Employing Monte Carlo Method", in IEEE PES Transmission and Distribution (T&D), Dallas, May 2016

- C15. **S. Mohajeryami**, M. Nagisetty, M. Doostan, Z. Salami, "Investigation of Age-Related Degradation on Naturally Aged Relays by Thermally Accelerated Aging", in IEEE PES Transmission and Distribution (T&D), Dallas, May 2016
- C14. **S. Mohajeryami**, A. R. Neelakantan, I.N. Moghaddam, Z. Salami, "Modeling of Deadband Function of Governor Model and its Effect on Frequency Response Characteristics", North American Power Symposium (NAPS), Oct 2015
- C13. **S. Mohajeryami**, P. Schwarz, P. Teimourzadeh, "Including the Behavioral Aspects of Customers in Demand Response Model: Real Time Pricing Versus Peak Time Rebate", North American Power Symposium (NAPS), Oct 2015
- C12. **S. Mohajeryami**, Z. Salami, I.N. Moghaddam, "Study of effectiveness of under-excitation limiter in dynamic modeling of Diesel Generators," Power and Energy Conference at Illinois (PECI), pp.1-5, Feb. 28 2014-March 1 2014
- C11. I.N. Moghaddam; Z. Salami, **S. Mohajeryami**, "Generator excitation systems sensitivity analysis and their model parameter's reduction," Power Systems Conference (PSC), 2014 Clemson University , vol., no., pp.1,6, 11-14 March 2014
- C10. **S. Mohajer Yami**, A.A. Shayegani Akmal, A.Mohseni, A.Majzoobi, "Backflashover Study of Arvandkenar-Abadan 132KV Double Circuit Transmission Line by Monte Carlo Method with Accurate Components Modeling", International Symposium on High Voltage (ISH), Aug 2011, Hanover, Germany
- C9. **S. Mohajer Yami**, A.A. Shayegani Akmal, A.Mohseni, A.Majzoobi, "Modeling and Lightning Performance Study of Compact Transmission Lines in EMTP-RV by Application of Monte Carlo Method", International Symposium on High Voltage (ISH), Aug 2011, Hanover, Germany
- C8. **S. Mohajer Yami**, A.A. Shayegani Akmal, A.Mohseni, A.Majzoobi, "Analysis of Lightning Performance of 132KV Transmission Line by Application of Surge Arresters", International Symposium on High Voltage (ISH), Aug 2011, Hanover, Germany
- C7. A.Mohseni, **S. Mohajer Yami**, A.A. Shayegani Akmal, "Sensitivity Analysis and Stochastic Approach in Study of Transient Recovery Voltage with Presence of Superconducting FCL", IEEE Electrical Power and Energy Conference 2011, Winnipeg, Canada
- C6. A.Mohseni, **S. Mohajer Yami**, A.A. Shayegani Akmal, " Modeling of Matrix Fault Current Limiter and Its Verification", IEEE Electrical Power and Energy Conference 2011, Winnipeg, Canada
- C5. A. Majzoobi, I.A. Joneidi, **S. Mohajer Yami** , H.Mohseni and A.A.Shayegani, "Experimental Investigation of Effect of UV Radiation on Flashover Voltage of Polymeric Insulators With and Without Contamination", International Symposium on High Voltage (ISH), Aug 2011, Hanover, Germany
- C4. A. Majzoobi, I.A. Joneidi, **S. Mohajer Yami** , H.Mohseni and A.A. Shayegani, "3D Modeling of Electrical Field and Electrical Potential in Different Contamination Condition in Polymeric Insulator", International Symposium on High Voltage (ISH), Aug 2011, Hanover, Germany
- C3 **S. Mohajer Yami**, A.A Shayegani-akmal, A.rahimnejad, "Modeling and Investigation of Backflashover in Fajr-2 Petrochemical Co. 400kV transmission line to Mahshahr 400kV High Voltage Substation" (In Persian), The 19th Iranian Conference on Electrical Engineering (ICEE 2011), Tehran, Iran, Feb 2011

C2. **S. Mohajer Yami**, A.A Shayegani-akmal, A.rahimnejad, “Modeling and Backflashover Study of Royan-Hasankif Quadruple Circuit of 230/63 KV”(In Persian), 12th Seminar on Power Transmission Lines and 9th Seminar on Insulators, Feb 2011

C1. **S. Mohajer Yami**, A.A Shayegani-akmal, A.rahimnejad, “Tower Footing Resistance Effects on Backflashover Phenomena of Loushan-Deylaman 230KV Double Circuit Transmission Line” (In Persian), 12th Seminar on Power Transmission Lines and 9th Seminar on Insulators, Feb 2011

Research Projects

Engineering projects

- **“Frequency Response and Model Validation for Duke Energy”**, Under supervision of Dr. Salami as an industrial funded project, UNC Charlotte, Spring and summer 2014
- **“Parameter Estimation and Model Validation of Emergency Diesel Generator of the Comanche Peak Nuclear Power Plant for AREVA Inc. North America”** Under supervision of Dr. Salami as an industrial funded project, UNC Charlotte, Fall 2014
- **“Installation and Launch of Digital Fault Recorder (DFR) in Marshal Power Plant (Duke Energy) and Data Analysis for Model validation of Excitation System of Generator”**, Under supervision of Dr. Salami as an industrial funded project, UNC Charlotte, winter 2013
- M.Sc. thesis: **“ Modeling and lightning performance study of transmission lines in EMTP-RV by application of Monte Carlo method”**, Under supervision of Dr. Amir Abbas Shayegani Akmal in High Voltage Laboratory of University of Tehran
- B.Sc. thesis: **“Optimum Sizing and Location of Dispersed Generations (DG) in Distribution Systems in Deregulated Environment”**, Under supervision of Dr. Reza Ghazi in Power system studies center of Dr. Ghazi
- **“Study the effect of footing resistance of transmission line towers on observed backflashover of 400&230&132 kV transmission lines”** using EMTP-RV software, as a partial fulfillment of projects of “Electrical Transients” course by cooperation of Moshanir Engineering Co.
- M.Sc. Seminar Course: **“Study of insulation coordination in power systems”**
- **“Simulation of Transient Phenomena in Power Transmission Line”**, using ATP & EMTP software
- **“Calculating the parameters of power transmission line in different geometries”** using MATLAB and EMTP-RV software, as a partial fulfillment of projects of “Power System Analysis” course.

Economics projects

- **“Forecasting the Federal Funds target rate with incorporating GARCH model and comparing the results of ADL, ARIMA and VAR models”** as a capstone project for business forecasting.

Working and Teaching Experiences

- **Teaching assistant** in "Instrumentation and Networks" and "Logic and networks" Laboratory EPIC, UNC Charlotte. Fall 2014 and Spring 2015
- **Teaching assistant** in "Network Theory", "Basic Electrical Engineering" and "Modern Control System"

EPIC, UNC Charlotte. Fall 2012 and Spring 2013 and Spring 2015

- **Research assistant** working on **Installation and Launch of Digital Fault Recorder (DFR) in Marshal Power Plant (Duke Energy)**
EPIC, UNC Charlotte. Fall 2012 and Spring 2013
- **Project Engineer** in High Voltage Substation department
Ghodnsiroo Engineering Co. March 2011- May 2012

Software Skills

- **Mastery of Microsoft Office programs (Word, Excel, PowerPoint)**
- **Ability to work with several operating systems, including Windows, Mac OSX and Linux**
- **Ability to work with industrial power system software packages: ETAP, Digsilent, PSS/E**
- **Ability to work with academic power system software packages: EMTP, PSCAD**
- **Ability to work with data analysis software packages: SAS, STATA**
- **Ability to work with programming languages: C++, Python**
- **Ability to work with MATLAB, GAMS, AMPL**

References

Peter Schwarz

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