



Ailin Asadi Nejad

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Power System Analysis Laboratory,
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Personal

Date of Birth: 26 July 1985
Place of Birth: Shiraz, Iran
Marital Status: Single

Education

- M. Sc. In electrical engineering (September 2007 – December 2009)
[Amirkabir University of Technology, Tehran, Iran](#) (Iranian center of Excellence in Power Engineering and Energy Management)
Thesis Title: Optimal Operation of Micro grid with Renewable Energy in Isolated Island
Fulfilled with honors and full GPA 4/4
- B. Sc. In electrical engineering (2003 to 2007)
[Amirkabir University of Technology, Tehran, Iran](#) (Iranian center of Excellence in Power Engineering)
Thesis Title: Simulation of internal winding faults of transformers and motors.

Research Interests

- Renewable Energy Systems
- Distributed Generation
- Power Electronic Applications in Renewable Energy Conversion Systems
- Electricity Market
- Power System Analysis
- Hybrid Vehicles
- Optimization Methods

Research Experiences

- Transformer and Motor Fault Current Simulation (B. Sc. Thesis). Spring and Summer 2007 (under supervision of Dr. Kouhsari)
- Optimal Operation of Micro grid with Renewable Energy (M. Sc. Thesis). Summer 2008- to fall 2009 (under supervision of Professor. Abedi)
- Effect of Biomass Utilization for Production of Electrical Energy in Iran (Amirkabir University of Technology). Fall 2007- Fall 2008 (under supervision of Dr. Ardehali)
- Developing Energy Auditing Software for a House (Amirkabir University of Technology). Fall 2007 (under supervision of Dr. Ardehali)
- Developing Energy Planning Software for Iran (Amirkabir University of Technology). Spring 2008 (under supervision of Dr. Ardehali)
- The Effects of Wind Power in Competitive Electricity Market (Amirkabir University of Technology). Summer 2008 (under supervision of Dr. Hosseinian)
- The Role of Distributed Generation in Power Quality (Amirkabir University of Technology) Fall 2008 (under supervision of Dr. Gharepetian)

TEACHING EXPERIENCES

- Lecturer for the course “Electric Circuits”, EE Dept, Azad University, Iran.
- TA for the course “Special Machine”, EE Dept, Amirkabir Univ. of Tech, Prof. J. S. Moghani.
- TA for the course “Electric Machines II”, EE Dept, Amirkabir Univ. of Tech, Prof. M. Abedi.

Professional Experiences and courses

- High Voltage Substation Design, GNEC Company, summer 2007- to present (Supervision of Design and Construction of three 400kV Power plant Substations, two 400/63 kV Substations, two GIS substation...)
- Expert Engineer of Control and Protection of High Voltage Substation, GNEC Company, summer 2007- to present
- Apprentice in Hormozgan Regional Electrical Company, summer 2006.
- Supervision of GIS and GIB routine test, Hyundai Company, Ulsan, South Korea, summer 2009
- Training course of “professional excel” with high score, Tehran. Iran, spring 2010
- Training course of “Design and Evaluation of Fiber Optic Cable”, Yazd Cable Company, Tehran, Iran, fall 2010
- Training course of “Design and configuration of GE and Siemens Relay”, Tehran. Iran. Fall and spring 2008 & fall 2009
- Training course of “Design of Digital System Control of Substations”, Tehran. Iran. Fall 2009
- Teaching Mathematics and Physics in High School, Karaj, Tehran, Iran, (Fall 2005-Summer2007)

Honors

- Ranked 2rd (on the basis of total GPA) among all Energy Management M.Sc. Students of Amirkabir University.
- Ranked 1st (on the basis of total GPA) among M.Sc. Students of Energy Management in fall 2008 semesters.
- Ranked 2rd (on the basis of total GPA) among M.Sc. Students of Energy Management in fall 2007 and spring 2008 semesters.
- A Winner of 10th National Chemistry Olympiad, 2001
- Ranked 110th in National Undergraduate Entrance Exam among almost 400,000 applicants, Tehran, Iran, 2003

- Ranked 114th in the National Graduate Studies Entrance Exam among almost 30,000 applicants, Tehran, Iran, 2007
- Graduates community of Amirkabir University of Technology Member (Iranian center of Excellence in Power Engineering and Energy Management) , since 2007

Publications

- Effect of biomass utilization for power generation , Ailin Asadi Nejad, Morteza Mohamadi Ardehali , Mehrdad Abedi, "Fuel, Energy and Environment National Conference ,Tehran ,Iran" May 2008
- The Effects of Wind Power in Competitive Electricity Market, Maryam Hassani Variani, Ailin Asadi Nejad, Hossein Hosseinian, "PSC Conference, Iran" Dec 2008
- Analyze the Effect of Using Hybrid Wind/ Biomass System in Iran, Ailin Asadi Nejad, Mostafa Ghafoori Varzane, Mehrdad Abedi, Iran ISI Magazine of NRI (Niroo research institute); fall 2009.
- Improving the technical and social performance of wind energy systems in Iran using biomass-based energy storage, Ailin Asadi Nejad, Mostafa Ghafoori Varzane, Mehrdad Abedi (In Progress)
- Analyzing the Effects of Biomass, PV and Wind Power in Iran Reference Energy System , Ailin Asadi Nejad, Mostafa Ghafoori Varzane, Morteza Mohamadi Ardehali (In Progress)
- Optimization of Hybrid PV/Wind/ diesel/ battery System with PSO Method, Ailin Asadi Nejad, Mostafa Ghafoori Varzane, Mehrdad Abedi (In Progress)

Software Proficiency

- PSCAD, EMTP, Matlab, Visual Basic, Visual Delphi, Office
- Familiar with PSCAD and EMTP
- Professional Matlab Programming
- Professional Operator for Windows
- Microsoft Office (Excel, Word, PowerPoint, FrontPage)
- Hands on Fortran, Visual Basic and C++ Programming

References

- Prof. M. Abedi
Professor
Electrical Department
Amirkabir University of Technology, Tehran, Iran
Email: abedi@aut.ac.ir
- Dr. G. Riahy
Assistance Professor
Electrical Department
Amirkabir University of Technology, Tehran, Iran
Email: gholam@aut.ac.ir
- Dr. H. Hosseinian
Associate Professor
Electrical Department
Amirkabir University of Technology, Tehran, Iran
Email: hosseinian@aut.ac.ir
- Dr. M. Ardehali
Associate Professor
Electrical Department
Amirkabir University of Technology, Tehran, Iran
Email: ardehali@aut.ac.ir
- H. Bakhtiari Zadeh
Referee of Iranian Power System Conference (PSC) since 2005 to present
Management of GNEC Company
M.sc. of Amirkabir University of Technology, Tehran, Iran
Email: hbakhtiarizadeh@ghods-niroo.com

In Major Courses

Distributed Generation
Renewable Energy Systems
Process and Assessment of Energy Consumption
Energy Storage
Electrical Load Management
Economics and Electrical Energy Management
Power Quality
Energy Planning

Energy Resources
Power System Utilization
Power System Analysis 1, 2
Electric Machine 1, 2, 3
Power Transmission Lines Design
Substation Design
Dielectrics
Power system protection
Power Plant
Industrial Electronic
Electric Install
Engineer Economics
Thermodynamics
Control Systems
Electrical Measurements
Electromagnet
Communication
Electronics 1, 2
Electrical Circuits 1, 2
Logic Circuits
System Analysis
, ...