



Shahid Beheshti University
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Curriculum Vitae

Vahid Vahidinasab, Ph.D.

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Vahid Vahidinasab, Ph.D.

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CV last updated on: **08 January 2016**

1. Appointments	3
2. Education	3
3. Awards and Honors	4
4. Research Interests	4
5. Research Experiences	4
6. Publications	5
7. Teaching Experiences	9
8. Supervision	9
9. Services.....	12
10. Honorary and Professional Committee Memberships	12
11. Expertise	13
12. Software Experiences.....	13

Vahid Vahidinasab, Ph.D.

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Researcher ID: F-3602-2014

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**1. Appointments**

2010-present	Assistant Professor, Department of Electrical Engineering, Shahid Beheshti University (SBU)
2014-present	Director General for Research, Niroo Research Institute (NRI)
2012-2014	Head of Undergraduate Education Affairs Office, Abbaspour School of Engineering, Shahid Beheshti University (SBU)
2013-2014	Member of selected committee for scientific promotion, Department of Electrical Engineering, Shahid Beheshti University (SBU)
2012-2013	Technical Consultant, Strategic planning and control department, MAPNA Group
2010-2012	Technical Consultant, Energy Research Center, Niroo Research Institute (NRI)
2004-2010	Research Assistant, Department of Electrical Engineering, Iran University of Science and Technology (IUST)
2006-2010	Research Assistant, Energy Research Center, Niroo Research Institute (NRI)
2004-2006	Research Assistant, Electricity Research Center, Niroo Research Institute (NRI)

2. Education

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- Ph.D.** Power Systems Engineering, **February 2010**
 Iran University of Science and Technology, Tehran, IRAN
 Dissertation title: "Optimal Bidding Strategy of Power Producers in Joint Energy and Spinning Reserve Markets"
 Supervisor: Professor Shahram Jadid
 Committee members: Professor Nima Amjady, Professor Heydarali Shayanfar, Professor Mohsen Kalantar, Professor Mohsen Parsa-Moghadam, Mr. Eng. Ahad Kazemi
- M.S.** Power Systems Engineering, **October 2006**
 Dissertation title: "Short Term Electricity Price Forecasting in Restructured Power Systems Using Artificial Neural Networks"
 Supervisor: Mr. Eng. Ahad Kazemi, Advisor: Professor Shahram Jadid
 Iran University of Science and Technology, Tehran, IRAN
- B.S.** Power System Engineering, **September 2004**
 K. N. Toosi University of Technology, Tehran, IRAN
 Supervisor: Mr. Eng. Homayoon Haeri

3. Awards and Honors

- Supervision of the Best BSc Thesis in Electrical Engineering, Iranian Society of Smart Grids, 2015.
- Supervision of the Best BSc Thesis in Electrical Engineering, Iranian Smart Home Festival, 2014.
- Recipient of the Iranian Young Professors Prize, 2011
- Recipient of the Elites National Foundation Prizes, 2010
- First rank Student of M.S. Degree in the Department of Electrical Engineering, Iran University of Science and Technology, 2006
- Distinguished Researcher, Department of Electrical Engineering, Iran University of Science and Technology, 2005
- Distinguished Student, Department of Electrical Engineering Iran University of Science and Technology, 2005
- Rank 329 among 350,000 participants of nationwide universities entrance exam, 2000.

4. Research Interests

My research interests include integration of distributed energy resources (DERs) into electric power systems, design, operation and economics of smart Microgrids, reliability assessment of power components and systems and application of artificial intelligence and optimization methods in power system studies.

5. Research Experiences

- | | |
|-----------|--|
| 2012-2013 | <p>Technical Consultant for <u>MAPNA Group</u> in doing businesses at smart grids and distributed generation manufacturing.</p> <p><u>MAPNA Group</u> is an Iranian enterprise, which operates in the area of construction and development of thermal power plants under EPC scheme, independent power plants (IPP), oil and gas as well as rail traction projects.</p> |
| 2010-2014 | <p>Technical Consultant for Energy Research Center, Niroo Research Institute (NRI) in unit commitment of generation companies as well as price forecasting issues and in the following practical research projects for two realistic case studies:</p> <ul style="list-style-type: none"> - Software Design and Development for Optimal Bidding Strategy of Tehran Regional Electric Company - Software Design and Development for Optimal Bidding Strategy of Gilan Regional Electric Company |
| 2011-2012 | <p>Project manager of the following practical research project:</p> <ul style="list-style-type: none"> - An environmental techno-economic assessment of microgrids |
| 2004-2010 | <p>Research Assistant, Department of Electrical Engineering, Iran University of Science and Technology (IUST) in the following practical research project:</p> <ul style="list-style-type: none"> - Energy Management for Energy Intensive Industries of Iran |

- 2006-2010 Research Assistant, Energy Research Center, Niroo Research Institute (NRI) in the application of neural networks in time series prediction and in the following practical research project:
- Software Design and Development for Electric Price Forecasting of the Azarbayjan Regional Electric Company
- 2004-2006 Research Assistant, Electricity Research Center, Niroo Research Institute (NRI) in the application of neural networks and fuzzy systems in time series prediction and in the following practical research projects:
- Software Design and Development for Electric Load Forecasting of the Iran Grid Management Company (IGMC)
 - Software Design and Development for Electric Load Forecasting of the Khoozestan Regional Electric Company
 - Software Design and Development for Electric Load Forecasting of the Bakhtar Regional Electric Company

6. Publications

6.1. Summary of Scientific Publications

Journal papers:	21
Conference papers:	33

6.2. Citation

294 (h-index: 8) in *Google Scholar*
 214 (h-index: 7) in *Scopus*

6.3. Peer Reviewed/Submitted Journal Papers

A. Abessi, **V. Vahidinasab**, M. S. Ghazizadeh, "Centralized Support Distributed Voltage Control by using End-Users as Reactive Power Support," *IEEE Transactions on Smart Grid*, Vol. 7, No. 1, Jan. 2016, pp. 178-188.

H. Arasteh, M. S. Sepasian and **V. Vahidinasab**, "An aggregated model for coordinated planning and reconfiguration of electric distribution network," *Energy*, Vol. 94, Jan. 2016, pp. 786-798.

A. Abessi, **V. Vahidinasab**, M. S. Ghazizadeh, "Distributed Reactive Power Control by Considering End-consumers," *Journal of Energy Engineering and Management*, Vol. 7, No. 1, Jan. 2015, pp. 14-23.

H. R. Arasteh, M. S. Sepasian and **V. Vahidinasab**, "Toward a Smart Distribution System Expansion Planning by Considering Demand Response Resources," *Journal of Operation and Automation in Power Engineering*, Vol. 3, No. 2, Autumn 2015, pp. 116-130.

M. Shivaie, M. T. Ameli, M. S. Sepasian, P. D. Weinsier, **V. Vahidinasab**, "A Multistage Framework for Reliability-Based Distribution Expansion Planning Considering Distributed Generations by a Self-

adaptive Global-Based Harmony Search Algorithm,” *Reliability Engineering and System Safety*, Vol. 139, Jul. 2015, pp. 68-81.

B. Rezaei, M. S. Ghazizadeh, **V. Vahidinasab**, “Determination of Private DG Energy Sourced Electricity Purchasing Price by DISCOs: Case Study of Iran,” *Iranian Journal of Electrical and Computer Engineering*, Accepted for publication.

E. Hosseini, M. S. Sepasian, H. R. Arasteh, **V. Vahidinasab**, “Enhancing the non-Developed Distribution Systems Operation Using a Joint Reconfiguration and DR Model,” *Iranian Journal of Electrical and Computer Engineering*, Accepted for publication.

A. Abessi, **V. Vahidinasab**, and M. S. Ghazizadeh, “Analysis of the Impact of Constant Voltage DGs on Distributed Voltage Control of Smart Grids by Using End-Consumers,” *Tabriz Journal of Electrical Engineering*, Accepted for publication, 2015.

V. Vahidinasab and R. Khademzadeh, “Modified CSS Approach for Environmental/Economic load dispatch: A multiobjective approach,” *Iranian Journal of Energy*, Vol. 18, No. 1, Oct. 2015.

Y. Parzivand and **V. Vahidinasab**, “Reliability-Based Coordination of the Wind and Pumped-Storage Units in an Electricity Market,” *Iranian Journal of Energy*, Vol. 17, Oct. 2014.

Y. Parzivand and **V. Vahidinasab**, “A Novel Robust Optimization Based Offering Strategy for Wind and Pumped-Storage Units,” *Iranian Electric Industry Journal of Quality Productivity*, Vol. 3, Sep. 2014, pp. 27-37.

V. Vahidinasab, “Optimal Distributed Energy Resources Planning in a Competitive Electricity Markets: Multiobjective Optimization and Probabilistic Design,” *Renewable Energy*, Vol. 66, Jun. 2014, pp. 354-363.

B. Jeddi, P. Ramezanzpour, and **V. Vahidinasab**, “Dynamic Approach for Distribution Networks Expansion Planning Considering Distributed Generations Using a Synthetic Harmony Search Algorithm,” *Iranian Electric Industry Journal of Quality Productivity*, Vol. 2, Mar. 2014, pp. 41-48.

B. Jeddi and **V. Vahidinasab**, “A Modified Harmony Search Method for Environmental/Economic Load Dispatch of Real-World Power Systems,” *Energy Conversion and Management*, Vol. 78, Feb. 2014, pp. 661-675.

N. Amjady and **V. Vahidinasab**, “Security-Constrained Self-Scheduling of Generation Companies in Day-Ahead Electricity Markets Considering Financial Risk,” *Energy Conversion and Management*, Vol. 65, Jan. 2013, pp. 164-172.

V. Vahidinasab and S. Jadid, “Stochastic Multiobjective Self-Scheduling of a Power Producer in Joint Energy and Reserves Markets,” *Electric Power Systems Research*, Vol. 80, No. 7, Jul. 2010, pp. 760-769.

V. Vahidinasab and S. Jadid, “Joint Economic and Emission Dispatch in Energy Markets: A Multiobjective Mathematical Programming Approach,” *Energy*, Vol. 35, No. 3, Mar. 2010, pp. 1497-1504.

V. Vahidinasab and S. Jadid, “Normal Boundary Intersection Method for Suppliers’ Strategic Bidding in Electricity Markets: An Environmental/Economic Approach,” *Energy Conversion and Management*, Vol. 51, No. 6, Jun. 2010, pp. 1111-1119.

V. Vahidinasab and S. Jadid, “Bayesian Neural Network Model to Predict Day-Ahead Electricity Prices,” *European Transactions on Electrical Power*, Vol. 20, No. 2, Mar. 2010, pp. 231-246.

V. Vahidinasab and S. Jadid, "Multiobjective Environmental/Techno-Economic Approach for Strategic Bidding in Energy Markets," *Applied Energy*, Vol. 86, No. 4, Apr. 2009, pp. 496-504.

V. Vahidinasab, S. Jadid, and A. Kazemi, "Day-Ahead Price Forecasting in Restructured Power Systems Using Artificial Neural Network," *Electric Power Systems Research*, Vol. 78, No. 8, Aug. 2008, pp. 1332-1342.

H. Arasteh, M. S. Sepasian and **V. Vahidinasab**, "The Incorporation of Distribution System Reconfiguration and Expansion Planning Problems Considering the Role of Demand Response Resources," *Iranian Journal of Science & Technology, Transaction of Electrical Engineering*, Under Review.

V. Vahidinasab, "Stochastic Multiobjective Self-Scheduling of Generation Companies: an MIP Framework," *International Journal of Electrical Power and Energy Systems*, Under Review.

B. Jeddi, **V. Vahidinasab**, P. Ramezanzpour, "Dynamic Reliability-Based Distributed Generations Planning in Distribution Networks: Robust Optimization Approach," *Journal of Energy Research*, Under Review.

V. Vahidinasab, "On the Multiobjective Risk-Based Bidding Strategy of a Power Producer with Emission Arbitrage Opportunities," *Energy Conversion and Management*, to be submitted.

6.4. Selected Conference Papers

Author of more than 30 papers in national/international conferences including:

A. Bagheri, **V. Vahidinasab**, "Three-Phase OPF in Distribution Networks with High Penetration of DERs," Smart Grid Conference 2015, Tehran, Dec. 2015.

S. A. Ahmadi, H. Karami, **V. Vahidinasab**, G. B. Gharehpetian, "Application of Biogeography Based Optimization Algorithm in Voltage Profile Improvement of Distribution Network by using DSTATCOM Considering Cable Aging Constraint," International Conference on Renewable Energies and Power Quality (ICREPQ'16), Madrid, 2016

H. Karami, S. A. Ahmadi, G. B. Gharehpetian, **V. Vahidinasab**, "Loadability Improvement in Distribution Network using DG Units by Application of Biogeography Based Optimization Algorithm Considering Cable Aging Constraint," International Conference on Renewable Energies and Power Quality (ICREPQ'16), Madrid, 2016

H. Nezamabadi, **V. Vahidinasab**, "Two Stage Decision Making of Technical Virtual Power Plants in Electricity Market Via Nash-SFE Equilibrium," 3rd International Istanbul Smart Grid Congress and Fair, Apr. 2015.

M. Tabarzadi, **V. Vahidinasab**, "A Comprehensive Expansion Planning Model for Smart Electric Distribution Networks," 3rd International Istanbul Smart Grid Congress and Fair, Apr. 2015.

B. Jeddi, **V. Vahidinasab**, "Optimal Operation Strategy of Distributed Generators in a Microgrid Including Energy Storage Devices," Smart Grid Conference 2013, Tehran, Dec. 2013.

V. Vahidinasab and S. Jadid, "On the Stochastic Self-Scheduling of a Power Producer in Simultaneous/Aggregated Energy and Reserves Markets," *Proceedings of Australasian Universities Power Engineering Conference, AUPEC'09*, Adelaide, Australia, Sep. 2009.

V. Vahidinasab and S. Jadid, "Normal Boundary Intersection Method for Multiobjective Environmental/Economic Load Dispatch," *Proceedings of North American Power Symposium, NAPS'08*, Calgary, Canada, Sep. 2008.

V. Vahidinasab and S. Jadid, "ANN Based Day-Ahead Peak Load Forecasting," *Proceedings of International Conference on Power Systems, ICPS'07*, Bangalore, India, Dec. 2007.

V. Vahidinasab and S. Jadid, "Bayesian Neural Networks for Electricity price Forecasting in the Electricity Markets," *Proceedings of Australasian Universities Power Engineering Conference, AUPEC'07*, Perth, Australia, Dec. 2007.

B. Kiani, S. Jadid, R. Fekri, and **V. Vahidinasab**, "Examining the Impact of Deregulation on Generation Capacity Growth in Economies in Transition by System Dynamics Modeling," *Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'06*, Montreal, Canada, Jul. 2006.

7. Teaching Experiences

❖ **Shahid Beheshti University (SBU)** **2010-present**

Graduate courses:

- **Power Systems Reliability** (10 semesters)
- **Optimization Methods** (3 semesters)
- **Power Systems Short Circuit Analysis** (1 semester)
- **Research methodology** (1 semester)

Undergraduate courses

- **Power Systems Analysis I** (12 semesters)
- **Power Systems Analysis II** (2 semesters)
- **Electrical Measurement Lab** (1 semester)

❖ **Iran University of Science and Technology (IUST)** **2005-2009**

- **Instructor**

- **Introduction to Electrical Engineering I** (3 semesters)

- **Instructor (Teaching Associate),**

- **Restructured Power Systems** (2 semesters)

Responsible for developed course materials and teaching the fundamentals of linear/nonlinear optimization as well as security-constrained optimal power flow and unit commitment,

- **Teaching Associate, Iran University of Science and Technology (IUST)**

- **Power Systems Analysis** (1 semester)

- **Laboratory Instructor, Iran University of Science and Technology (IUST)**

- **Introduction to Electrical Engineering Lab** (2 semesters)

8. Supervision

Ph.D. Students:

➤ **5 Ph.D. students**

The most of the thesis subjects concentrated on DER integration into distribution systems and operation, planning and economics of Microgrids.

Ongoing

- Habibollah Raoufi, 2015 to present (Supervisor)
- Hossein Nezamabadi, 2014 to present (Supervisor)
- Sayed Mohsen Hashemi, 2013 to present (Supervisor)
- Hamidreza Arasteh, 2012 to present (Co-Supervisor)
- Reza Sharifi, 2012 to present (Advisor)

Thesis-based Master (MSc) Students:

➤ **30 MSc students**

The most of the thesis subjects concentrated on DER integration into distribution systems and operation, planning and economics of Microgrids.

Alumni

- Mahdi Tabarzadi, 2012 to 2015 (Supervisor)
Thesis Title: Multiobjective planning of smart distribution networks
- Mohammad Mohammadbeygi, 2012 to 2015 (Supervisor)
Thesis Title: Expansion planning of smart distribution systems: a decomposition approach
- Hamidreza Sheikhzadeh, 2012 to 2015 (Supervisor)
Thesis Title: Stochastic distribution expansion planning: a robust optimization approach
- Bahram Eslami, 2012 to 2015 (Co-Supervisor)
Thesis Title: Robust generation expansion planning
- Mahdi Rostami-Fajr, 2012 to 2015 (Co-Supervisor)
Thesis Title: Coordinated generation and transmission expansion planning
- Nader Olfatinejad, 2012 to 2015 (Co-Supervisor)
Thesis Title: Robust transmission network expansion planning
- Behnam Rezaei, 2012 to 2015 (Co-Supervisor)
Thesis Title: Determination of optimal electricity purchase price from private distributed generation units with considering the installation of capacitor process
- Farshid Sedaghati, 2011 to 2014 (Supervisor)
Thesis Title: Optimal V2G management as a demand response program
- Ahad Abessi, 2011 to 2014 (Supervisor)
Thesis Title: Distributed voltage control of smart grids by using end-users as reactive power support
- Babak Jeddi, 2012 to 2013 (Advisor)
Thesis Title: Dynamic reliability-based DG planning in a real-world distribution system
- Yousef Parzivand, 2011 to 2013 (Supervisor)
Thesis Title: Coordinated operation of the wind and pumped-storage hydro units
- Rashid Khademzadeh, 2011 to 2013 (Co-Supervisor)
Thesis Title: Self-healing in smart electrical grids
- Komeil Ramezani-Paji, 2010-2012 (Advisor)
Thesis Title: Optimal designing of load management contracts

Ongoing

- Salar Moradi, September 2014 to present
- Niloofer Zarei, September 2014 to present
- Mahsa Babagheibi, September 2014 to present
- Saeed Bahrami, September 2013 to present
- Saeed Jalilian, September 2013 to present
- Hossein Rafiee, , September 2013 to present

- Sayed Loghman Heidari, September 2013 to present
- Alireza Sheikh-Kabir, September 2013 to present
- Enayat Faramarzi, September 2013 to present
- Saeed Rostami, September 2013 to present
- Abed Bagheri, September 2013 to present
- Chenour Ardalán, September 2014 to present
- Emad Mirzaei, September 2013 to present
- Seyed Alireza Ahmadi, September 2013 to present
- Mojtaba Attar Bejestani, September 2013 to present
- Karvan Yazdani, September 2013 to present
- Maryam Farahani, September 2013 to present

Thesis-based Undergraduate (BSc) Students:

➤ **25 BSc students**

The most of the thesis subjects concentrated on smart home technology development and DER integration into distribution systems.

Alumni

- Farshid Pourghorban, Undergraduate Research Student, 2014 to 2015
- Sedique Kolaei, Undergraduate Research Student, 2014 to 2015
- Behrad Chatrchi, Undergraduate Research Student, 2013 to 2014
- Mehrangiz Ramezan, Undergraduate Research Student, 2013 to 2014
- Alireza hosseini, Undergraduate Research Student, 2013 to 2014
- Mohammad Miresmaeili Undergraduate Research Student, 2013 to 2014
- Ali Ramezani, Undergraduate Research Student, 2013 to 2014
- Keyvan Khatibi, Undergraduate Research Student, 2013 to 2014
- Farahnaz Asadzadeh, Undergraduate Research Student, 2013 to 2014
- Hesam Soroushzad, Undergraduate Research Student, 2013 to 2014
- Mohammad Afkar, Undergraduate Research Student, 2012 to 2014
- Mahdi Golmohammadi, Undergraduate Research Student, 2012 to 2013
- Alireza Pourbayati, Undergraduate Research Student, 2012 to 2013
- Ma'sumeh Moghimi, Undergraduate Research Student, 2012 to 2013
- Behnaz Safari, Undergraduate Research Student, 2012 to 2013.
- Mahnaz Ebrahimi, Undergraduate Research Student, 2012 to 2012
- Hossein Rezaei, Undergraduate Research Student, 2012 to 2012
- Mahdi Tabarzadi, Undergraduate Research Student, 2012 to 2012
- Mohammad M. M. Monfared, Undergraduate Research Student, 2011 to 2012

Ongoing

- Peyman Abbasi, Undergraduate Research Student, 2015 to present
 - Pouya Abbasi, Undergraduate Research Student, 2015 to present
 - Masoud Nejati, Undergraduate Research Student, 2015 to present
 - Mohammadreza Sheikhha, Undergraduate Research Student, 2014 to present
 - Behnam Takallu, Undergraduate Research Student, 2014 to present
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9. Services

- *Reviewer of the following International ISI Journals:*
 - IEEE Transactions on Power Systems (IEEE)
 - IEEE Systems Journal (IEEE)
 - IET Generation, Transmission, and Distribution (IET)
 - Electric Power Systems research (ELSEVIER)
 - Energy (ELSEVIER)
 - Applied Soft Computing (ELSEVIER)
 - Energy Conversion & Management (ELSEVIER)
 - Sustainable Energy Technologies and Assessments (ELSEVIER)
 - International Journal of Electrical Power and Energy System (ELSEVIER)
 - International Transactions on Electrical Energy Systems (John Wiley & Sons)
 - Machine Learning Journal (Springer)
 - Cogent Engineering (Taylor & Francis Group)
 - Iranian Journal of Science & Technology, Transaction of Electrical Engineering
 - Tabriz Journal of Electrical Engineering
 - Iranian Journal of Energy
- *Giving lectures in high schools to motivate students toward higher education.*

10. Honorary and Professional Committee Memberships

❖ Membership:

- Committee Member, Steering Committee for Power Systems Operation Studies, Niroo Research Institute (NRI)
- Committee Member, Steering Committee for Roadmap Development of Iran Power Grid Reliability, Niroo Research Institute (NRI)
- Member of Institute of Electrical and Electronic Engineers (IEEE)
- Member of Iranian Society of Smart Grids (ISOSG)
- Head of Research and Education Committee of Iranian Society of Smart Grids (ISOSG)
- Member of Elites National Foundation
- Member of Iran Energy Association (IEA)

❖ Organizer:

- Track Chair, The 4th Iranian Conference on Smart Grids, Niroo Research Institute (NRI), Tehran, Iran, Dec. 2014.
- Publicity Chair, The 4th Conference on Thermal Power Plants (Gas, Combined Cycle, Steam), 2012.

❖ Conferences Activities

- Steering and Technical Committees Member, 5th Iranian Conference on Smart Grids, Iran University of Science and Technology, Tehran, Iran, Dec. 2015.
- Technical Committee Member, 4th Iranian Conference on Smart Grids, Niroo Research Institute (NRI), Tehran, Iran, Dec. 2014.
- Technical Committee Member, 22nd Iranian Conference on Electrical Engineering (ICEE 2014), Shahid Beheshti University, Tehran, Iran, May 2014.
- Technical Committee Member, 3rd Iranian Conference on Smart Grids, Shahid Beheshti University, Tehran, Iran, Dec. 2013.
- Technical Committee Member, 3rd Conference on Thermal Power Plants (Gas, Combined Cycle, Steam), Abbaspour University of Technology, Tehran, Iran, Dec. 2012.
- Technical Committee Member, 2nd Iranian Conference on Smart Grids, Iran University of Science and Technology, Tehran, Iran, Dec. 2012.

11. Expertise

- Integration of Distributed Energy Resources (DERs)
 - Smart Microgrids design, operation and economics
 - Application of Optimization Methods
 - Power Systems Operation and Planning
 - Reliability Assessment of Power Components and Systems
 - Restructured Power Systems and Power Markets
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12. Software Experiences

- The General Algebraic Modeling System (GAMS) programming
 - MATLAB programming
 - DiGSILENT Power Factory
 - Power World Simulator
 - Microsoft Office, EndNote, EdrawMax, Prezi
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