Abed Bagheri

Curriculum Vitae

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1. EDUCATION

Sep. Jun. 2016–2022	**Ph.D.**, *Electrical Engineering*, Department of Electrical Engineering, Iran University of Science and Technology (IUST), Tehran, IRAN, *Grade: 18.52*.
	Dissertation title: "Proposing a model for simultaneously clearing of wholesale and retail electricity markets using optimality condition decomposition method"
	Supervisor: Prof. Shahram Jadid
	Committee members: Prof. Seyed Hossein Hosseinian, Dr. Mohammad Kazem Sheikh-El-Eslami, Prof. Mohsen Kalantar, and Prof. Sadegh Jamali
Sep. Jan. 2013–2016	**M.Sc.**, *Electrical Engineering*, Department of Electrical Engineering, Shahid Beheshti University (SBU), Tehran, IRAN, *Grade: 17.68*.
	Thesis title: "Optimal Operation of Smart Distribution Networks with Fully Penetration of Distributed Energy Resources"
	Supervisor: Dr. Vahid Vahidinasab
Jan. Jan. 2009–2013	**B.Sc.**, *Electrical Engineering*, Department of Engineering, University of Kurdistan (UOK), Sanandaj, Kurdistan, IRAN, *Grade: 17.53*.
	Project title: "Emergency Control of Power Systems Considering Stability Aspects"
	Supervisor: Dr. Ali Hesami Naghshbandy

2. ACADEMIC, RESEARCH AND ADMINISTRATIVE POSITIONS

2022–present	**Innovation Manager**, *Didi No Innovation Center*, Farda Motors Company (FMC), Tehran, IRAN.
2021–present	**Technical Consultant**, *Operation Deputy*, Tehran Regional Electric Company (TREC), Tehran, IRAN.
2019-2020	**Research Assistant**, *Power Systems Operation and Planning Research Group*, Niroo Research Institute (NRI), Tehran, IRAN.
2017–present	**Senior Editorial Associate**, *Iranian Journal of Electrical and Electronic Engineering (IJEEE)*, Iran University of Science and Technology (IUST), Tehran, IRAN.
2015	**Research Assistant**, *Research Affairs Office*, Niroo Research Institute (NRI), Tehran, IRAN.
2012–2013	**Technical Consultant**, *Distribution Transformers Maintenance Center*, Kurdistan Electricity Distribution Company, Sanandaj, Kudistan, IRAN.

3. TEACHING EXPERIENCES

2019	**Lecturer**, *University of Kurdistan (UOK)*, Sanandaj, Kudistan, IRAN.
	○ Differential Equations

2016-2019	**Teaching Assistant**, *Iran University of Science and Technology (IUST)*, Tehran, IRAN.

- Power Systems Analysis I

2014-2015	**Teaching Assistant**, *Shahid Beheshti University (SBU)*, Tehran, IRAN.

- Power Systems Analysis I

2013, 2019	**Laboratory Instructor**, *University of Kurdistan (UOK)*, Sanandaj, Kudistan, IRAN.

- Power Systems Lab.

2010-2012	**Teaching Associate**, *University of Kurdistan (UOK)*, Sanandaj, Kudistan, IRAN.

- Electric Circuits I
- Power Systems Analysis I
- Power Systems Analysis II
- Electric Machines III

4. Awards and Honors

2019	Recipient of the Elites National Foundation Prize, IRAN.
2018–2022	Scholarship for Ph.D. program from Tehran Chamber of Commerce, Industries, Mines & Agriculture (TCCIM), Tehran, IRAN.
2013–2016	Scholarship for M.Sc. program from Shahid Beheshti University (SBU), Tehran, IRAN.
2010–2013	Distinguished Student, Department of Engineering, University of Kurdistan (UOK), Sanandaj, Kurdistan, IRAN.

5. Services

Reviewer of the following

5.1. National Projects

2020-present	Development of a National Standard for Test Methods and Classification of Electric Motor Drives Based on Energy Efficiency Indicators, Niroo Research Institute (NRI), Tehran, IRAN.

5.2. ISI & ISC Journals

2020-present	IEEE Access
2019-present	IEEE Transactions on Circuits and Systems II: Express Briefs (IEEE-TCAS II)
2018-present	IET Generation, Transmission & Distribution (IET-GTD)
2018-present	Elsevier - Renewable Energy (RENE)
2018-present	Iranian Journal of Electrical and Electronic Engineering (IJEEE)
2017-present	Elsevier - Applied Soft Computing (ASOC)
2016-present	Elsevier - Renewable & Sustainable Energy Reviews (RSER)
2016-present	Elsevier - Journal of Modern Power Systems and Clean Energy (MPCE)
2015-present	Elsevier - Electric Power Systems Research (EPSR)
2014-present	Elsevier - Energy Conversion and Management (ECM)

5.3. Conferences

Sep. 2019	2nd International Conference on Smart Energy Systems and Technologies (SEST 2019), Porto, PORTUGAL.
Jan. 2015	20th Electric Power Distribution Conference, University of Sistan and Baluchestan (USB), Zahedan, IRAN.

Nov. 2014   Smart Grid Conference 2014, Iran University of Science and Technology (IUST), Tehran, IRAN.

6. Languages

English   Professional working proficiency
Farsi   Bilingual proficiency
Kurdish   Native proficiency

7. Software Experiences

Power World Simulator, DIgSILENT PowerFactory, ETAP, WinIGS, ELEK SafeGrid Earthing

MATLAB programming

The General Algebraic Modeling System (GAMS) programming

LaTeX, Microsoft Office, EndNote, Mendeley, Adobe InDesign

Adobe Photoshop, Microsoft Visio, EdrawMax, Inkscape, Prezi

8. Research Interests & Expertises

- Electricity Markets
- Smart Grids
- Power System Operation
- Power System Planning
- Application of Optimization Methods

9. Publications

9.1. Journal Papers

[1] **A. Bagheri** and S. Jadid, "Integrating wholesale and retail electricity markets considering financial risks using stochastic programming," *International Journal of Electrical Power & Energy Systems*, vol. 142, p. 108213, 2022.

[2] **A. Bagheri** and S. Jadid, "A robust distributed market-clearing model for multi-area power systems," *International Journal of Electrical Power & Energy Systems*, vol. 124, p. 106275, 2021.

[3] **A. Bagheri**, V. Vahidinasab, and K. Mehran, "A novel multiobjective generation and transmission investment framework for implementing 100% renewable energy sources," *IET Generation, Transmission Distribution*, vol. 12, no. 2, pp. 455–465, 2018.

9.2. Conference Papers

[4] A. Abessi, M. Oskouee, R. Haghi, **A. Bagheri**, and A. Beyrami, "Designing a two-way 3-kW charger for electric vehicles based on IEC 61851-23 and standard voltage level of Iran," in *2016 Smart Grid Conference (SGC)*, Dec 2016. in Persian.

[5] S. Bayat, M. Shafiee, and **A. Bagheri**, "Bilevel static-constrained scheduling of distribution level virtual power plants in electricity markets," in *2016 Power System Conference (PSC)*, Oct 2016. in Persian.

[6] S. Bayat, M. Shafiee, and **A. Bagheri**, "Optimal scheduling of distribution level virtual power plants in electricity markets," in *2016 Power System Conference (PSC)*, Oct 2016. in Persian.

[7] **A. Bagheri** and V. Vahidinasab, "Linear programming of smart distribution networks operation considering voltage security constraints," in *4th Regional Conference on Electricity Distribution (CIRED)*, Oct 2016. in Persian.

[8] **A. Bagheri** and V. Vahidinasab, "Three-phase OPF in distribution networks with high penetration of DERs," in *2015 Smart Grid Conference (SGC)*, pp. 35–41, Dec 2015.

[9] M. Mohammadi, K. Aslansefat, **A. Bagheri**, and G. R. Latif-Shabgahi, "A novel Monte Carlo simulation-based approach for safety evaluation of spare systems," in *10th Maintenance Conference*, Nov 2015. in Persian.

[10] F. Pourghorban, **A. Bagheri**, and V. Vahidinasab, "Optimal restoration of smart distribution networks with distributed energy resources," in *20th Electrical Power Distribution Conference (EPDC20)*, 2015. in Persian.

[11] M. Yousefian, **A. Bagheri**, E. Ghodsi, and A. Nazari, "A new approach for decreasing operation costs and speedup unit commitment problem solving," in *17th Iranian Student Conference on Electrical Engineering*, Dec 2014. in Persian.