

Education

- **Sharif University of Technology** Tehran, Iran
PhD. Electrical Engineering, Major in Power Systems 2014-2019
 - GPA: 17.75/20
 - Advisor: Prof. AliMohammad Ranjbar
 - Research Project: "Participation of DFIG Based Wind Turbines in Power System Frequency Response Improvement"
- **Sharif University of Technology** Tehran, Iran
M.Sc. Electrical Engineering, Major in Power Systems 2012-2014
 - GPA: 17.43/20
 - Advisor: Prof. AliMohammad Ranjbar
 - Research Project: "Power System Load Frequency Control in the Presence of Wind Turbines"
- **Amirkabir University of Technology** Tehran, Iran
B.Sc. Electrical Engineering, Major in Power Systems 2008 - 2012
 - GPA: 18.19/20
 - Advisor: Prof. Gevork B. Gharehpetian
 - B.Sc. Thesis: "Distance Relay Third Zone Malfunction Compensation in Oscillations of Smart Grid"
- **Haghani Educational Institution** Tehran, Iran
High School Diploma in Mathematics and Physics 2004 - 2008
 - GPA: 19.38/20
- **Research Interests**
 - Power System Dynamic
 - Power System Operation and Control
 - Load frequency Control
 - Renewable Energy
 - HVDC and FACTS Devices
 - Optimization Algorithm
 - Power System Transients

Journal Papers

- **A Novel Probabilistic Method for Under Frequency Load Shedding Setting Considering Wind Turbine Response**
A Ashouri-Zadeh, Aras Sheikhi, Wei Sun, Published in "IEEE Transactions on Power Delivery", 2022.
- **Adaptive virtual inertia controller for DFIGs considering nonlinear aerodynamic efficiency**
A Ashouri-Zadeh, Mohammadreza Toulabi, Published in "IEEE Transactions on Sustainable Energy", 2022.
- **Modification of DFIG's Active Power Control Loop For Speed Control Enhancement and Inertial Frequency Response**
A Ashouri-Zadeh, MR Toulabi, S Bahrami, AM Ranjbar, Published in "IEEE Transactions on Sustainable Energy", 2017.
- **Coordinated Design of Fuzzy Based Speed Controller and Auxiliary Controllers in a Variable Speed Wind Turbine to Enhance Frequency Control**
A Ashouri-Zadeh, MR Toulabi, AM Ranjbar, Published in "IET Renewable Power Generation", 2016.
- **A Novel Technique to Extract the Maximum Power of Photovoltaic Array in Partial Shading Conditions**
A Ashouri-Zadeh, MR Toulabi, A Salehi-Dobakhshari, S Taghipour-Broujeni, AM Ranjbar, Published in "International Journal of Electrical Power and Energy Systems", 2018.

- **Frequency stability improvement in wind-thermal dominated power grids**
A *Ashouri-Zadeh*, MR Toulabi, A Salehi-Dobakhshari, AM Ranjbar, Published in "IET Generation, Transmission & Distribution", 2019.
- **Application of BangBang Controller to Emulate Primary Frequency Response in DFIGs**
MR Toulabi, A *Ashouri-Zadeh*, H Kazari, AM Ranjbar, Published in "IEEE Systems Journal", 2020.
- **Battery energy storage systems and demand response applied to power system frequency control**
SA Hosseini, MR Toulabi, A *Ashouri-Zadeh*, AM Ranjbar, Published in "International Journal of Electrical Power & Energy Systems", 2022.
- **Peer-to-Peer Energy sharing Among Smart Energy Hubs in an integrated Heat-Electricity Network**
Amirreza Ghaffari Daryan, Aras Sheikhi, A *Ashouri-Zadeh*, Published in "Electric Power Systems Research", 2022.
- **Delay Compensation of Demand Response and Adaptive Disturbance Rejection Applied to Power System Frequency Control**
SA Hosseini, MR Toulabi, A Salehi-Dobakhshari, A *Ashouri-Zadeh*, AM Ranjbar, Published in "IEEE Transactions on Power Systems", 2019.
- **Modified Power Reserve Management Solution in Power System Considering Frequency Constraints**
SA Hosseini, MR Toulabi, A *Ashouri-Zadeh*, AM Ranjbar, Published in "IEEE Systems Journal", 2019.
- **A modified algorithm for allocating reserve power considering security constraints**
SA Hosseini, MR Toulabi, A *Ashouri-Zadeh*, AM Ranjbar, Published in "International Transactions on Electrical Energy Systems", 2020.
- **A Reliability-Constrained Cost-Effective Model for Optimal Sizing of an Autonomous Hybrid Solar/Wind/Diesel/Battery Energy System by A Modified Discrete Bat Search Algorithm**
M Shivaie, M Mokhayeri, M Kiani-Moghaddam, A *Ashouri-Zadeh*, Published in "Solar Energy", 2019.

Conference Papers and Presentations

- **Assessment of Frequency Stability Enhancement in Dominated Wind Power Plants Grid**
A *Ashourizadeh*, A Sheikhi, AM Ranjbar, "9th International Conference on Power and Energy Systems (ICPES)", Perth, Australia, 2019.
- **A New Method for Under Frequency Settings in Dhofar Grid**
M Abolfazli, R Zeinali, A *Ashourizadeh*, S A M Alrawahi, S A A Alzubaidi, K S Babu, Presented in "GCC CIGRE Power Conference and Exhibition", 2016.
- **Robustness margin concept and load frequency control issue**
MR Toulabi, A *Ashourizadeh*, R Zeinali, AM Ranjbar, Presented in "The International Power System Conference (PSC)", Tehran, In Persian, 2014.
- **Distance Relay Third Zone Malfunction Compensation in Oscillations of Smart Grid**
A *Ashourizadeh*, N Moaddabi, G Gharehpetian, Presented in "7th Power Systems Protection and Control Conference", Tehran, In Persian, 2012.

Industrial Projects

- **Reliability Study of Bangladesh Power Grid System**
Monenco Iran Consulting Engineers 2015 - 2016
- **Operating Reserve Management in MIS and Dhofar systems of OETC**
Monenco Iran Consulting Engineers 2014 - 2015
- **Synchronous Interconnection of Iran-Iraq Grids**
Monenco Iran Consulting Engineers 2017
- **Under Frequency Load Shedding and Islanding Scheme in Dhofar System**
Monenco Iran Consulting Engineers 2015
- **Technical Study of Kouhin Wind Farm**
Monenco Iran Consulting Engineers 2016
- **Technical Study of Qeshm Solar Power Plant**
Hormozgan Regional Electric Company 2017

Honors

- Ranked 184th among 320'000 students in "Mathematics & Physics Nationwide B.Sc. Universities Entrance Exam, Iran", 2008.
- Admitted to the M.Sc. program in Power System as an exceptionally talented student with exemption from the M.Sc. entrance exam, Sharif University of Technology, 2012.
- Ranked 7th in national PhD entrance exam, "Electrical Engineering, Power System", 2014.
- Member of National Organization for Development of Exceptional Talents (NODET).

Relevant Skills

- Proficient in MATLAB and Familiar with C/C++.
- Proficient in DigSilent, DPL, and DSL languages.
- Proficient in Plexos and PSS/E
- Proficient in Transient Softwares, e.g., EMTP and PSCAD.
- Familiar with CFD programs, e.g., MAXWELL.
- Typesetting: L^AT_EX, MS Office

Languages

- Farsi: Mother tongue.
- English: Fluent

Personal Interests

- Listening to Music, Watching Movies, Football, Traveling, Mountaineering and Swimming.

References

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Sharif University of Technology ✉ amranjbar@sharif.edu
- **Prof. Gevork B. Gharehpetian** ☎ Phone: +98 912 102 4208
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