BIOGRAPHICAL DATA

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EDUCATIONAL QUALIFICATIONS

- Ph.D. in Electrical Engineering (2008), Tarbiat Modares University, Tehran, Iran
- M.Sc. in Electrical Engineering (2003), Tarbiat Modares University, Tehran, Iran
- B.Sc. in Control Engineering (1998), Ferdowsi University of Mashhad, Mashhad, Iran

AREAS OF EXPERTISE

- Evaluation of Available Transfer Capability
- Power System Operation and Planning
- Distributed Power Generation
- Power System Reliability
- Renewable energy
- Probabilistic Evaluation

ACADEMIC EXPERIENCES

- Associate Professor, University of Birjand, Birjand, Iran, 2016-present
- Assistant Professor, University of Birjand, Birjand, Iran, 2009-2016
- Visiting Scholar, Texas A&M University, College Station, Texas, USA, 2007

HONORS

- Ranked 1st among electrical engineering students at the end of M.Sc. period, Tarbiat Modares University, 2003.

TECHNICAL PUBLICATIONS

A. Book Chapters

[1] **M. Ramezani**, H. Falaghi and C. Singh, "**Capacity benefit margin evaluation in multi-area power systems including wind power generation using particle swarm optimization**" in *Wind Power Systems: Applications of Computational Intelligence*, Berlin: Springer-Verlag, pp. 105–124, L. F. Wang, C. Singh, and A. Kusiak (Eds), Springer Book Series on Green Energy and Technology, Springer-Verlag, Heidelberg.

B. Journal Papers

[1] H. Falaghi, M. R. Haghifam, **M. Ramezani**, "**Reliability enhancement in electric distribution networks using optimal allocation of switching devices**", *Amirkabir Journal of Science and Technology*, vol. 15, no. 58–A, pp. 338–348, 2004.

[2] H. Falaghi, M. R. Haghifam, **M. Ramezani**, "**Determining optimum location of sectionalizers in electric distribution networks**", *Journal of Faculty of Engineering*, *University of Tehran*, vol. 39, no. 4, pp. 513–526, 2006.

[3] **M. Ramezani**, M. R. Haghifam, C. Singh, H. Seifi, M. Parsa-Moghadam, "**Determination of capacity benefit margin in multi-area power systems using particle swarm optimization**", *IEEE Transactions on Power Systems*, vol. 24, no. 2, pp. 631-641, 2009.

[4] **M. Ramezani**, C. Singh, M. R. Haghifam, "**Role of clustering in the probabilistic evaluation of TTC in power systems including wind power generation**", *IEEE Transactions on Power Systems*, vol. 24, no. 2, pp. 849-858, 2009.

[5] **M. Ramezani**, M. R. Haghifam, M. Parsa-Moghadam, H. Seifi, "**Probabilistic evaluation of total transfer capability of transmission network in the presence of wind farms**", *Iranian Journal of Electric and Computer Engineering*, vol. 7, no. 3, pp. 211-223, 2010.

[6] H. Falaghi, **M. Ramezani**, C. Singh, M. R. Haghifam, "**Pobabilistic assessment of TTC in power systems including wind power generation**", *IEEE Systems Journal*, vol. 6, no. 1, pp. 181-190, 2012.

[7] A. Najafi, H. Falaghi, **M. Ramezani**, "**Combined heat and power economic dispatch using improved differential evolution algorithm**", *International Journal of Advanced Research in Computer Science and Software Engineering*, vol. 2, no. 8, pp. 69-77, 2012.

[8] J. Kafi Kondori, **M. Ramezani**, H. Falaghi, "**Probabilistic evaluation of total transfer capability and risk of power systems based on multi-objective optimization method**", *Computational Intelligence in Electrical Engineering*, vol. 3, no. 4, pp. 51-62, 2012.

[9] **M. Ramezani**, H. Falaghi, C. Singh, "**A deterministic approach for probabilistic TTC evaluation of power systems including wind farm based on data clustering**", *IEEE Transactions on Sustainable Energy*, vol. 4, no. 3, pp. 643-651, 2013.

[10] A. Amini, H. Falaghi, **M. Ramezani**, "**Economic dispatch between power plants in order to simultaneous reduction of emission and fuel cost**", *Journal of Energy Engineering Management*, vol. 3, no. 1, pp. 2-15, 2013.

[11] N. Biabani, **M. Ramezani**, H. Falaghi, "**Increment of distributed generation penetration in distribution networks by distributed generation and energy storage placement**", *Iranian Journal of Electric and Computer Engineering*, Vol. 11, No. 2, 2013, pp. 57-65.

[12] H. Golmohamadi, **M. Ramezani**, A. Bashian, H. Falaghi, "**Risk-based maintenance scheduling of generating units in the deregulated environment considering transmission network congestion**", *Journal of Modern Power Systems and Clean Energy*, vol. 2, no. 2, pp. 150-162, 2014.

[13] H. Golmohamadi, **M. Ramezani**, H. Falaghi, "**competitive unit maintenance scheduling in deregulated environment based on preventing from market power**", *Turkish Journal of Electrical Engineering and Computer Sciences*, vol. 22, no. 3, pp. 529-545, 2014.

[14] A. Najafi, R. Aboli, H. Falaghi, **M. Ramezani**, "**Medium term operation of the energy hub considering prices and load uncertainty",** *Iranian Electric Industry Journal of Quality and Productivity*, vol. 4, no. 8, pp. 74-82, 2016.

[15] A. Najafi, H. Falaghi, **M. Ramezani**, "**Capacitor Placement in Distorted Distribution Network Subject to Wind and Load Uncertainty",** *Journal of Operation and Automation in Power Engineering*, vol. 4, no. 2, pp. 61-72, 2016.

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[17] A. Najafi, H. Falaghi, J. Contreras, **M. Ramezani**, "**Medium-term energy hub management subject to electricity price and wind uncertainty**", *Applied Energy*, vol. 168, pp. 418-433, 2016.

[18] R. Arabi, **M. Ramezani**, H. Falaghi, "**Probabilistic evaluation of available load supply capability of distribution networks as an index for wind turbines allocation**", *IET Renewable Power Generation*, vol. 10, no. 10, pp. 1631-1637, 2016.

[19] A. Najafi, H. Falaghi**, M. Ramezani**, "**Decision making to procure electrical energy of large consumers in the presence of wind turbines**", *Tabriz Journal of Electrical Engineering*, vol. 46, no. 3, pp. 345-356, 2016.

[20] A. Najafi, H. Falaghi**, M. Ramezani**, "**Risk-Based maximization of operation benefit in multi-carrier energy systems**", *Tabriz Journal of Electrical Engineering*, vol. 46, no. 4, pp. 317-329, 2016.

[21] A. Najafi**,** H. Falaghi**,** J. Contreras, **M. Ramezani**, "**A Stochastic Bilevel Model for the Energy Hub Manager Problem**", *IEEE Transactions on Smart Grid*, vol. 8, no. 5, pp. 2394-2404, 2017.

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[23] R. Aboli, **M. Ramezani**, H. Falaghi, "**Joint optimization of day-ahead and uncertain near real-time operation of microgrids**", *International Journal of Electrical Power and Energy Systems*, vol. 177, pp.34-46, 2019.

[24] R. Aboli, **M. Ramezani**, H. Falaghi, "**A Hybrid Robust Optimization Model for Day-Ahead Management of Active Distribution Networks**", *Tabriz Journal of Electrical Engineering*, vol. 49, no. 3, pp. 949-964, 2019.

[25] S. Ahmadnia, **M. Ramezani**, E.Tafehi, "**Comparison Between Different Penalty Price Models for Determination of Optimal Total Transfer Capability in the Presence of Wind Farms**", *Iranian Journal of Science and Technology-Transactions of Electrical Engineering*, Vol. 43, No. 3, 2019, pp. 559–567.

[26] R. Saberi, H. Falaghi, M. Esmaeeli, **M. Ramezani**, "**A two-stage approach to enhance distribution network resilience against natural disasters**", *Journal of Energy Management and Technology*, vol. 5, no. 2, pp. 53-63, 2020.

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[28] A. Najafi, H. Falaghi**, M. Ramezani**, "**A two- stage multi- period distribution network expansion planning considering the integration of private investors**", *International Transactions on Electrical Energy Systems*, vol. 31, no. 12, pp. 317-329, 2021.

[29] M. Etemadizadeh, **M. Ramezani**, "**Reactive power compensation using optimal capacitor allocation in the distribution network in the presence of wind power plant based on Information Gap Decision Theory**", *Nashriyyah-I Muhandesi-I Barq va Muhandesi-I Kampyutar-I IRAN*, vol. 18, no. 4, pp. 240-248, 2021.

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[34] A. Ashoornezhad, H. Falaghi**,** A. Hajizadeh, **M. Ramezani**, "**A bi-level multistage distribution network expansion planning framework with the cooperation of residential private investors (A case study in Iran)**", *IET Renewable Power Generation*, vol. 17, no. 7, pp. 1881-1898, 2023.

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C. Proceedings Papers

[1] **M. Ramezani**, H. Falaghi, M. R. Haghifam, M. Parsa Moghaddam, H. Pedramfar, "**Fuzzy load estimation of distribution substations using limited data**," *Proceedings of the 17th International Power System Conference- PSC*-2002, Nov. 2–4, 2002, Tehran, Iran.

[2] H. Falaghi, **M. Ramezani**, M. R. Haghifam, M. Parsa Moghaddam, "**Sectionalizer allocation in primary network of distribution systems with consideration of load uncertainty based on GA**," *Proceedings of 18th Electric Power Distribution Conference- PSC*-2003, May 20–21, 2003, Tehran, Iran.

[3] **M. Ramezani**, H. Falaghi, M. R. Haghifam, G. Molla, "**Using GIS in distribution system planning**," *Proceeding of the 18th Electric Power Distribution Conference- PSC*-2003, May 20–21, 2003, Tehran, Iran.

[4] M. R. Haghifam, H. Falaghi, **M. Ramezani**, M. Parsa Moghaddam, G. Shahryari, "**Enhancement in distribution systems using optimal allocation of switching devices**," *Proceeding of the 17th International Conference and Exhibition on Electricity Distribution*, CIRED 2003, May 12–15, 2003, Spain.

[5] H. Falaghi, **M. Ramezani**, M. R. Haghifam, E. Ghazi, "**A heuristic approach for optimal selection of conductors in radial distribution networks**," *Proceedings of the 18th International Power System Conference-PSC*-2003, Oct. 20–22, 2003, Tehran, Iran.

[6] H. Falaghi, **M. Ramezani**, M. R. Haghifam, "**Application of load estimation of distribution transformers in assessment of distribution transformers and feeders losses**," *Proceeding of the 9th Electric Power Distribution Conference*, April 28–29, 2004, Zanjan, Iran.

[7] H. Falaghi, **M. Ramezani**, M. R. Haghifam, M. R. Ososli Tabrizi, K. Roshan Milani, K. Riazi, "**Optimal placement of sectionalizing and tie switches in MV distribution systems**," *Proceedings of the 19th International Power System Conference-PSC*-2004, Nov. 22–24, 2004, Tehran, Iran.

[8] **M. Ramezani**, H. Falaghi, M. R. Haghifam, M. R. Ososli Tabrizi, D. Herfati, "**Optimal placement of reclosers in MV distribution systems**," *Proceedings of the 19th International Power System Conference-PSC*-2004, Nov. 22–24, 2004, Tehran, Iran.

[9] **M. Ramezani**, H. Falaghi, M. R. Haghifam, "**Optimal feeder switch automation in electric distribution networks**," *Proceedings of the 20th International Power System Conference-PSC*-2005, Nov. 23–25, 2005, Tehran, Iran.

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[11] H. Falaghi, **M. Ramezani**, M. R. Haghifam, K. Roshan Milani, "**Optimal selection of conductors in radial distribution systems with time varying loads**," *18th International Conference and Exhibition on Electricity Distribution*, CIRED 2005, Turin, Italy, June 6–9, 2005.

[12] H. Falaghi, **M. Ramezani**, M. R. Haghifam, M. R. Osouli Tabrizi, "**Fault indicators effects on distribution reliability indices**," *18th International Conference and Exhibition on Electricity Distribution*, CIRED 2005, Turin, Italy, June 6–9, 2005.

[13] **M. Ramezani**, H. Falaghi, M. Parsa Moghaddam, M. R. Haghifam, "**Genetic based approach for distribution transformer placement**," *Proceeding of IEEE PES General Meeting*, June 18–22, 2006, Montreal, Quebec, Canada.

[14] H. Falaghi, **M. Ramezani**, M. R. Haghifam, M.-S. Vojdani, H. Khakbaz, "**Multiobjective reconfiguration of distribution networks**," *Proceeding of 11th Electric Power Distribution Conference*-EPDC, May 2–4, 2006, Mazandaran, Iran.

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[18] **M. Ramezani**, H. Falaghi, M. R. Haghifam, "**Application of Monte Carlo simulation in evaluation of total transfer capability of transmission networks in the presence of wind farms**", *Proceedings of the First Iranian Conference on Renewable Energies and Distributed Generation, ICREDG2010*, March 9–11, 2010, Birjand, Iran.

[19] **M. Ramezani**, H. Falaghi, "**Probabilistic evaluation of transfer capability using a deterministic approach based on data clustering**", *Proceedings of the 25th International Power System Conference- PSC-2010*, Nov. 7–9, 2010, Tehran, Iran.

[20] A. Amini, **M. Ramezani**, H. Falaghi, "**Economic dispatch considering the risk of wind power in power system using new multi-objective algorithm based on bacterial foraging optimization**", *Proceedings of The 19th Iranian Conference on Electrical Engineering*, May 17-19, 2011, Tehran, Iran.

[21] A. Amini, H. Falaghi, **M. Ramezani**, "**Environmental economic dispatch considering the risk of wind farm**", *Proceedings of the 26th International Power System Conference, PSC-2011*, Oct. 30- Nov. 1, 2011, Tehran, Iran.

[22] **M. Ramezani**, M. Khalghani, H. Falaghi, "**Probabilistic power flow of power system including wind power based on data clustering**", *Proceedings of the 26th International Power System Conference- PSC-2011*, Oct. 30- Nov. 1, 2011, Tehran, Iran.

[23] H. Maskani, H. Falaghi, **M. Ramezani**, M. Rouhbakhsh, "**Dynamic economic dispatch with regard to network losses using the gravitational search algorithm**", *Proceedings of the 3rd Electric Power Generation Conference*, Feb. 19-20, 2012, Mahmood Abad, Iran.

[24] P. Tadayon Roodi, J. Kafi Kondori, **M. Ramezani**, "**Optimal allocation of wind distributed generation in distribution network based on data clustering**", *Proceedings of the 17th* Electric power distribution conference, EPDC-2012, May 2-3, 2012, Tehran, Iran.

[25] P. Tadayon Roodi, J. Kafi Kondori, **M. Ramezani**, "**Optimal placement of distributed generation based on multi-objective optimization**", *Proceedings of the 17th* Electric power distribution conference, EPDC-2012, May 2-3, 2012, Tehran, Iran.

[26] N. Biabani, **M. Ramezani**, H. Falaghi, "**Simultaneous placement of distributed generation and energy storage to reduce energy cost delivered by upstream network**", *Proceedings of the 27th International Power System Conference, PSC-2012*, Nov. 12-15, 2012, Tehran, Iran.

[27] P. Tadayon, H. Ahrari, S. Alishahi, **M. Ramezani**, R. Shariati Nasab, "**Probabilistic power flow of distribution network including wind power based on data clustering**", *Proceedings of the 27th International Power System Conference, PSC-2012*, Nov. 12-15, 2012, Tehran, Iran.

[28] R. Shariati, M. Akafi-Mobarake, **M. Ramezani**, "**A new method to detect DG islanding mode in the presence of fault by using similarity measurement of total current harmonic distortion and voltage unbalance index**", *Proceedings of the 17th* Electric power distribution conference, EPDC-2012, May 2-3, 2012, Tehran, Iran.

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[32] H. Golmohammadi, **M. Ramezani**, "**Generating unit maintenance scheduling in power market based on fairness and competition**", *Proceedings of the 21th Iranian Conference on Electrical Engineering*, May 13-15, 2013, Mashhad, Iran.

[33] H. Golmohammadi, A. Bashian, **M. Ramezani**, "**Generating unit maintenance scheduling considering risk and cost imposed to transmission network**", *Proceedings of the 21th Iranian Conference on Electrical Engineering*, May 13-15, 2013, Mashhad, Iran.

[34] A. Najafi, **M. Ramezani**, "**Prioritizing distribution network buses to allocate DGs using analytical hierarchy process**", *Proceedings of the 18th Electric power distribution conference*, EPDC-2013, April 29-30, 2013, Kermanshah, Iran.

[35] A. Sedghi, P. Aghaie-Koohi, **M. Ramezani**, "**The effect of demand response on the reliability of the generation system in the presence of wind power plant**", *Proceedings of the Third Annual Clean Energy Conference*, July 3-4, 2013, Kerman, Iran.

[36] P. Aghaie-Koohi, A. Sedghi, **M. Ramezani**, "**32 Increasing penetration level of wind energy in electricity network with demand side management**", *Proceedings of the Third Annual Clean Energy Conference*, July 3-4, 2013, Kerman, Iran.

[37] H. Rashidizageh-Kermani, H. Falaghi, **M. Ramezani**, "**Probability analysis of the presence of electric vehicles in the distribution network**", *Proceedings of the Third Annual Clean Energy Conference*, July 3-4, 2013, Kerman, Iran.

[38] P. Aghaie-Koohi, **M. Ramezani**, H. Falaghi, "**Demand side management using heating & cooling loads and air conditioning**", *Proceedings of the 28th International Power System Conference, PSC-2013*, Nov. 1-3, 2013, Tehran, Iran.

[39] M. Ghasemipour, A. Sedghi, M. R. Aghaebrahimi, **M. Ramezani**, "**Probabilistic parking lot allocation considering different operation strategies**", *Proceedings of the 28th International Power System Conference, PSC-2013*, Nov. 1-3, 2013, Tehran, Iran.

[40] A. Sedghi, M. Ghasemipour, M. R. Aghaebrahimi, **M. Ramezani**, "**Reliability assessment of independent wind-photovoltaic-diesel-storage system in the presence of electric vehicles**", *Proceedings of the 28th International Power System Conference, PSC-2013*, Nov. 1-3, 2013, Tehran, Iran.

[41] E. Razavi-Asfali, H. Falaghi, **M. Ramezani**, "**A new integer linear programming approach for multi-stage PMU placement**", *Proceedings of Smart Grid Conference*, Dec. 16-17, 2013, Tehran, Iran.

[42] H. Pourmozafari, J. Najafi, **M. Ramezani**, "**Distributed generation allocation using fuzzy algorithm and multi-objective genetic algorithm**", *Proceedings of the 19th Electric power distribution conference*, EPDC-2014, May 5-6, 2014, Tehran, Iran.

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[44] M. Rajabi-Mashhadi, M. Khalghani, D. Yazdanpanah, M. Sadr, **M. Ramezani,** , "**Probabilistic planning of Khorasan power system with the probabilistic load flow based on the combined Monte Carlo method with data clustering**", *Proceedings of the 29th International Power System Conference, PSC-2014*, Oct. 27-29, 2014, Tehran, Iran.

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[51] M. R. Sarani-Nejhad, **M. Ramezani**, "**Optimal placement of wind turbines for loss reduction and loadability improvement of distribution network with Latin hypercube sampling method and algorithm NSGA-II**", *The First International Conference on Electrical Engineering and Computer Science*, Sep 2, 2015, Tehran, Iran.

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[59] M. Etemadizadeh, H. Falaghi, **M. Ramezani**, "**Designing the location and capacity of fixed and switchable capacitors with local voltage-based regulators in distribution networks**", *Proceedings of the 27th Iranian Conference on Electrical Engineering, ICEE*-2019, 30 April - 2 May, 2019, Yazd, Iran.

[60] Q. Asadi, H. Falaghi, **M. Ramezani**, "**A heuristic algorithm for service restoration in distribution networks considering the switching order**", *Proceedings of the 24th Electric power distribution conference*, EPDC-2019, June 19-20, 2019, Khoramabad, Iran.

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