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 (1999), 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

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.

PROFESSIONAL SOCIETY MEMBERSHIP

- Member of IEEE

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, 2004, pp. 338–348.

[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, 2006, pp. 513–526.

[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, 2009, pp. 631-641.

[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, 2009, pp. 849-858.

[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, 2010, pp. 211-223.

[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, 2012, pp. 181-190.

[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, 2012, pp. 69-77.

[8] **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, 2013, pp. 643-651.

[9] 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, 2014, pp. 150-162.

[10] 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, 2014, pp. 529-545.

[11] 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, 2013, pp. 2-15.

[12] 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.

[13] 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, 2012, pp. 51-62.

[14] A. Najafi, 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, 2016, pp. 74-82.

[15] M. Khalghani, **M. Ramezani,** M. Rajabi-Mashhadi, "**Demonstrating the importance of applying a new probabilistic power flow strategy to evaluate power systems with high penetration of wind farms**", *Journal of Energy Engineering*, Vol. 142, No. 1, 2016, pp. 1-11.

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

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, paper no. 98–F–PDS–622.

[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, Tehran, Iran, May 20–21, 2003, pp. 75–82.

[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, Tehran, Iran, May 20–21, 2003, pp. 117–126.

[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, Spain, May 12–15, 2003, paper no. 51.

[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, Tehran, Iran, Oct. 20–22, 2003, paper no. 98–F–PDS–690.

[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*, Zanjan, Iran, April 28–29, 2004.

[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, paper no. 98–F–PDS–285.

[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, paper no. 98–F–PDS–286.

[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, paper no. 98–F–PDS–655.

[10] **M. Ramezani**, H. Falaghi, M.-R. Haghifam, "**Short-term electric load forecasting based on neural networks**," *Proceedings of EUROCON 2005 Conference*, Nov. 22–24, 2005, Serbia and Montenegro, Belgrade.

[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, paper no. 423.

[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, paper no. 426.

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

[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, pp. 64–70.

[15] H. Falaghi, **M. Ramezani**, M.-R. Haghifam, "**Sectionalizing switch placement in MV distribution networks with limited capital resources**", *Proceedings of the 23th International Power System Conference-PSC-2008*, Nov. 30–Dec. 2, 2008, Tehran, Iran, paper no. 98–F–PDS–449.

[16] **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.

[17] **M. Ramezani**, H. Falaghi, M.-R. Haghifam, "**Multifunction switch allocation in distribution networks with distributed generation**", *Proceedings of the 24th International Power System Conference- PSC-2009*, Nov. 15–17, 2009, Tehran, Iran, paper no. 09-F-PDS-0183.

[18] **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, paper no. 10-F-PSS-2150.

[19] 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.

[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 paper no. 11-F-REN-1813.

[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, paper no. 11-F-PSS-1690.

[23] 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.

[24] 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.

[25] 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.

[26] 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, paper no. 12-F-PSS-1301.

[27] N. Biabani, **M. Ramezani**, H. Falaghi, "**Energy storage placement in distribution network to loss reduction**", *Proceedings of Regional Conference on Electricity Distribution*, Cired-2012, Dec 14-15, 2012, Tehran, Iran.

[28] **M. Ramezani**, H. Falaghi, R. Abedi, "**Capacity determination of energy storage in distribution network including wind power**", *Proceedings of the third Iranian Conference on Renewable Energies and Distributed Generation*, ICREDG-2013, April 9–10, 2013, Esfahan, Iran.

[29] J. Kafi Kondori, N. Biabani, **M. Ramezani**, "**Reliability assessment of generating system including wind farms and energy storage**", *Proceedings of the third Iranian Conference on Renewable Energies and Distributed Generation*, ICREDG-2013, April 9–10, 2013, Esfahan, Iran.

[30] 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.

[31] 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.

[32] 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.

[33] 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.

[34] 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.

[35] 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, 1014, Tehran, Iran.

[36] A. R. Arabi, **M. Ramezani**, H. Falaghi, "**Load serving capability evaluation of distribution network in the presence of stochastic renewable resources**", *Proceedings of the 20th Electric power distribution conference*, EPDC-2014, April 27-28, 2015, Zahedan, Iran.

[37] S. Ahmadnia, **M. Ramezani**, "**Optimal assessment of transfer capability in the presence of wind farm considering customer interruption cost**", *Proceedings of the 23th Iranian Conference on Electrical Engineering*, May 10-12, 2015, Tehran, Iran.

[38] S. Ahmadnia, **M. Ramezani**, "**Probabilistic evaluation of transfer capability in the presence of wind power based on Monte Carlo simulation and Latin hypercube sampling**", *Proceedings of the 23th Iranian Conference on Electrical Engineering*, May 10-12, 2015, Tehran, Iran.