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A. Research Interests:

- *Power System Restructuring*
- *Electricity Markets*
- *Optimization in Power systems*

B. Courses:

- *Power System Restructuring*
- *Advanced Power System Operations*
- *Electricity Markets*
- *Optimization in Power systems*

C. Researches:

Journal Published Papers:

[1] Jalili, H., Sheikh-El-Eslami, M.K., Parsa Moghaddam, M., Siano, P, "Distributed energy resources' role on reducing reliability cost", *International Transactions on Electrical Energy Systems*, Article in Press, 2018.

[2] Aryani, M., Ahmadian, M., Sheikh-El-Eslami, M.-K, "A two-stage robust investment model for a risk-averse price-maker power producer", *Energy*, vol. 143, pp. 980-994, 2018.

[3] Jalili, H., Sheikh-El-Eslami, M.K., Parsa Moghaddam, M., "Reducing reliability cost in presence of renewables by demand side management resources, *International Transactions on Electrical Energy Systems*, vol. 27, no. 9, art. no. e2373, 2017.

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[5] Sheikh-El-Eslami, and M.-R. Haghifam, "An interactive cooperation model for neighboring virtual power plants," *Applied Energy*, vol. 200, pp. 273-289, 2017.

[6] M. Shabanzadeh, M. K. Sheikh-El-Eslami, and M. R. Haghifam, "Risk-based medium-term trading strategy for a virtual power plant with first-order stochastic dominance constraints," *IET Generation, Transmission and Distribution*, vol. 11, pp. 520-529, 2017.

[7] S. Rahmani-Dabbagh and M. K. Sheikh-El-Eslami, "A profit sharing scheme for distributed energy resources integrated into a virtual power plant," Applied Energy, vol. 184, pp. 313-328

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[10] M. Shabanzadeh, M. K. Sheikh-El-Eslami, and M. R. Haghifam, "A medium-term coalition-forming model of heterogeneous DERs for a commercial virtual power plant," *Applied Energy*, vol. 169, pp. 663-681, 2016.

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[12] S. R. Dabbagh and M. K. Sheikh-El-Eslami, "Risk Assessment of Virtual Power Plants Offering in Energy and Reserve Markets," *IEEE Transactions on Power Systems*, vol. 31, pp. 3572-3582, 2016.

[13] M. I. Alizadeh, M. Parsa Moghaddam, N. Amjady, P. Siano, and M. K. Sheikh-El-Eslami, "Flexibility in future power systems with high renewable penetration: A review," *Renewable and Sustainable Energy Reviews*, vol. 57, pp. 1186-1193, 2016.
[14] M. Shafie-Khah, M. P. Moghaddam, M. K. Sheikh-El-Eslami, and J. P. S. Catalão, "Optimised performance of a plug-in electric vehicle aggregator in energy and reserve markets," *Energy Conversion and Management*, vol. 97, pp. 393-408, 2015.
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Conference Published Papers:

[1] Shabanzadeh, M., Sheikh-El-Eslami, M.-K., Haghifam, M.R. Modeling the cooperation between neighboring VPPs: Cross-regional bilateral transactions," in *4th Iranian Conference on Renewable Energy and Distributed Generation, ICREDG 2016*, art. no. 7875909, pp. 133-142, 2017.
[2] S. R. Dabbagh, M. K. Sheikh-El-Eslami, and A. Borghetti, "Optimal operation of vehicle-to-grid and grid-to-vehicle systems integrated with renewables," in *19th Power Systems Computation Conference, PSCC 2016*, 2016.
[3] S. Fini, S. Bahramara, M. P. Moghaddam, and M. K. Sheikh-El-Eslami, "Modelling multi-resource regulatory incentives in expansion planning problem," in *Proceedings of the 2015 IEEE Innovative Smart Grid Technologies - Asia, ISGT ASIA 2015*, 2016.
[4] S. R. Dabbagh and M. K. Sheikh-El-Eslami, "Participation of demand response resources through virtual power plant: A decision framework under uncertainty," in *2015 IEEE 15th International Conference on Environment and Electrical Engineering, EEEIC 2015 - Conference Proceedings*, 2015, pp. 2045-2049.
[5] E. Heydarian-Forushani, M. P. Moghaddam, M. K. Sheikh-El-eslami, M. Shafie-Khah, and J. P. S. Catalão, "Investigating the effects of flexible load in the grid integration of wind power," in *Proceedings of the IEEE Power Engineering Society Transmission and Distribution Conference*, 2014.
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[8] H. R. Arasteh, M. Parsa Moghaddam, and M. K. Sheikh-el-Eslami, "Bidding strategy in demand response exchange market," in *2012 2nd Iranian Conference on Smart Grids, ICSG 2012*, 2012.
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[12] M. Peikherfeh, H. Seifi, and M. K. Sheikh-El-Eslami, "Optimal dispatch of distributed energy resources included in a virtual power plant for participating in a day-ahead market," in *3rd International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2011*, 2011, pp. 204-210.
[13] A.A. Khatibzadeh, G. A. Khanbeigi, M. M. Bamdadian, H. Naderi, and M. K. Sheikh-El-Eslami, "An improved Tabu search algorithm and PSO for unit commitment problem solving," in *2011 19th Iranian Conference on Electrical Engineering, ICEE 2011*, 2011.
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[24] M. B. Rad, M. P. Moghadam, and M. K. Sheikh-El-Eslami, "Fuzzy evaluation of energy efficiency improvement impact on load shape," in *2007 IEEE Lausanne POWERTECH, Proceedings*, 2007, pp. 1429-1434.
[25] M. K. Sheikh-El-Eslami and H. Seifi, "Short-term electricity price forecasting using a fuzzy stochastic predictor," in *2006 IEEE Power Engineering Society General Meeting, PES*, 2006.
[26] M. K. Sheik-El-Eslami, M. P. Moghaddam, and S. Jadid, "Expansion planning in private generation companies: A practical method," in *2006 IEEE Power Engineering Society General Meeting, PES*, 2006.
[27] M. P. Moghaddam, M. Sheikh-El-Eslami, and S. Jadid, "Power market long-term stability: A hybrid MADM/GA comprehensive framework," in *2006 IEEE Power Engineering Society General Meeting, PES*, 2006.
[28] M. P. Moghaddam, M. K. Sheikh-El-Eslami, and S. Jadid, "A price guideline for generation expansion planning in competitive electricity markets," in *2005 IEEE Power Engineering Society General Meeting*, 2005, pp. 197-201.

Ph.D. Thesis Supervisory:

1. Majid Roustaei, Value-Based Transmission Pricing Approach to Improve Investment in Transmission Network, Tarbiat Modares University, 2015
2. Saeed Rahmani Dabbagh, Internal Transactions Framework for a Virtual Power Plant in Competitive Environments, Tarbiat Modares University, 2016
3. Hassan Jalili, Modeling of Retailer's Behavior in Capacity Market, Tarbiat Modares University, 2016
4. Morteza Shabanzadeh, Designing a Competitive Mechanism to Determine the Optimal Type and Capacity of Coalition Members of Virtual Power Plants, Tarbiat Modares University, 2017.

M.Sc. Thesis Supervisory:

1. Neda Hajibandeh, Electricity Market Analysis using Similarity-Based Behavioral Model,Tarbiat Modares University, 2010
2. Mohammad Birjandi, Optimal Determination of FTRs for Primary Auctions considering Energy Market Conditions, Tarbiat Modares University, 2011
3. Seyed Ali Reza Razavian, A New Hybrid Approach for Electricity Price Forecasting, Tarbiat Modares University, 2011
4. Afshin Farshidfar, Value-Based Allocation of Transmission Costs in Electricity Markets, Tarbiat Modares University, 2011
5. Amadali Khatibzadeh, Evaluating the Effect of Value-based Transmission Expansion Planning on Power Market Players, Tarbiat Modares University, 2011

6. Mansour Charwand, Determination of Midterm Optimal Strategy for Electricity Retailers, Tarbiat Modares University, 2011
7. Morteza Mirdar, Planning Strategy of VPP for Participating in Ancillary Services Markets, Tarbiat Modares University, 2012
8. Amir Niromandfam, Insurance Design for Hedging Electricity End Users against Price Volatility, Tarbiat Modares University, 2012
9. Mohammad Javad Fathi, Optimal VAR Planning in Distribution Networks considering Wind Power and Energy Markets, Tarbiat Modares University, 2012
10. Heresh Naderi, Risk Modeling and Hedging for a Disco. As a Wholesale Market Participant, Tarbiat Modares University, 2012
11. Hamid Reza Moayyed Kazemi, GEP Strategy Assessment from Regulatory View using Agent-based Systems, 2012
12. Sadegh Amani Beni, A New Framework for determination of Disco. Operation Costs from Regulatory View, Tarbiat Modares University, 2013
13. Seyyed Mohsen Hashemi, Economic Evaluation of Energy Hubs considering Uncertainties, Tarbiat Modares University, 2013
14. Alireza Moayyed Kazemi, Regulator viewpoint Multi agent assessment of generation expansion planning strategies in restructured power systems, Tarbiat Modares University, 2013
15. Eisa Hadi, Modeling The Impact of Residential Electricity and Heat Generation on Retail Electricity Rates, Tarbiat Modares University, 2014
16. Reza Nesaee Kalati, Bidding Strategy for DR Participation in Capacity Markets, 2015
17. Reza Tahmasebifar, A Hybrid Approach for Probabilistic Forecasting of Electricity Price, Tarbiat Modares University, 2015
18. Saleh Asgari Moghadam, Harmonic Load Estimation using Independent Component Analysis, Tarbiat Modares University, 2016
19. Abbas Sharifi, Determining the Retail Market Framework in Future Distribution System with Participation of Active Customers, Tarbiat Modares University, 2016
20. Asghar Akbari, Modeling the behavior of retail market participations by using stochastic multi-layer agent-based model, Tarbiat Modares University, 2017

D. Professional Experience:

- 2009-2015: *Deputy Dean for Research of Iran Power System Engineering Research Centre* (*IPSERC*)
- 2010-2012: *Member and Officer of Iran Electricity Market Regulatory Board* (*I.R. Iran Ministry of Energy*)
- 2011-2013: *Head of Power Department* (*Tarbiat Modares University*)
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- 2006- :*Management of More than 15 Research Projects for Iran Grid Management Company (IGMC), Tavanir Company, and Reginal Electricity Companies* (*I.R. Iran Ministry of Energy*)