BIOGRAPHICAL DATA

SAEED REZA GOLDANI
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EDUCATIONAL QUALIFICATIONS

- Ph.D. in Electrical Engineering (2011), Ferdowsi University, Mashhad, Iran
- M.Sc. in Electrical Engineering (1995), Ferdowsi University, Mashhad, Iran
- B.Sc. in Electrical Engineering (1992), Ferdowsi University, Mashhad, Iran

AREAS OF EXPERTISE

- Power system Generation Expansion Planning
- Power System Transmission Expansion Planning
- Price Forecasting in Electricity Market
- Reactive Power Control in Power System
- Application of smart grids and neural networks in power systems

ACADEMIC EXPERIENCES

- Assistant Professor, University of Birjand, Birjand, Iran, (2011 - Present)
- Instructor, University of Birjand, Birjand, Iran, (1995 - 2011)

TECHNICAL PUBLICATIONS

A. Book :

[1] K. Kiomarsi and S.R. Goldani, “Measurements, Importance and Applications (Non-electrical quantities that can be converted into electrical signals) ".

[1] K. Kiomarsi and S.R. Goldani, “Measurements, Importance and Applications (Electrical measuring instruments and devices) ".

B. Journal Papers

[1] E. Nokandi, M. Vahedipour-Dahraie, S.R. Goldani and P. Siano, "A three-stage bi-level model for joint energy and reserve scheduling of VPP considering local intraday demand response exchange market," Sustainable Energy, Grids and Networks, Vol. 33, March 2023.

[2] S.A. Rafiei, B. Mohammadi-Ivatloo, S. Asadi, S.R. Goldani and H. Falaghi, "Bi-level model for generation expansion planning with contract pricing of renewable energy in the presence of energy storage" IET Renewable Power Generation, Vol. 13, Issue 9, 2019, JCR, Scopus.

[3] H. Taherian, I. Nazer, E. Razavi, S.R. Goldani, M. Farshad and M.R. Aghaebrahimi, "Application of an improved neural network using cuckoo search algorithm in short-term electricity price forecasting under competitive power markets" Journal of Operation and Automation in Power Engineering, Vol. 1, No. 2, Summer & Fall 2013, Pages: 136-146 , ISC .

[4] I. Narimani, S.R. Goldani, "Participating of micro-grids in energy and spinning reserve markets – intra-day market" International Journal of Smart Electrical Engineering, Vol. 4, No. 1, Winter 2015, Pages: 15-21 .

[5] E. Nokandi, M. Vahedipour-Dahraie, S.R. Goldani and P. Siano, "A decision-making model for joint energy and reserve scheduling of wind power producers with local intraday demand response exchange market," International Journal of Electrical Power & Energy Systems 162, 110234, 2024.

[6] M.R. Aghaebrahimi, H. Taherian, I. Nazer-Kakhki, M. Farshad and S.R. Goldani, "Short term price forecasting in electricity market considering the effect of wind units' generation," Computational Intelligence in Electrical Engineering 5 (1), 105-122, 2014.

[7] S.A. Rafiei, S.R. Rafiei, S. Goldani and H. Falaghi, "A bi-level model for co-expansion planning of generation and energy storage system (ESS) with contract pricing," IET Renewable Power Generation 15 (11), 2526-2539, 2021.

[8] S.M. Hosseini, S.R. Goldani and H.R. Najafi, "Robust payment cost minimization in electricity markets," Electrical Engineering 105 (3), 1481-1495, 2023.

[9] S.A. Rafiei, S.R. Goldani and H. Falaghi, "A network constrained bi-level model for optimal generation expansion planning and optimal determination of feed-in tariffs for renewable energy resources" Journal of Energy Management and Technology (JEMT), Vol. 2, Issue 3,Summer 2018, Page 51-60, ISC .

[10] M. Hojjat, M.H. Javidi and S.R. Goldani, "Transmission Loss Allocation in Pool-Bilateral Environment Using Artificial Neural Networks," Journal of Iranian Association of Electrical and Electronics Engineers 11, 2014.

[11] S.R. Goldani, H. Rajabi Mashhadi and R. Ghazi "An analytical model for generation expansion planning in competitive environment based on dynamic balance between energy supply and demand" Journal of Iranian Association of Electrical and Electronics Engineers, Vol. 8, No. 1, Spring-Summer 2011, Pages: 57-66 , ISC .

[12] M. Kaheni, S.R. Goldani and H. Eliasi, "Short-term electricity price forecasting and the impact of energy storage on electricity price using GMDH neural network and K-means algorithm," TABRIZ JOURNAL OF ELECTRICAL ENGINEERING, 2025.

[13] E. Nokandi, M. Vahedipour-Dahraie, S.R. Goldani and P. Siano, "A three-stage bi-level model for vpps' energy and reserve scheduling considering intraday demand response exchange market," Available at SSRN 4010384, 2022.

[14] H.R. Samadi, M. Ebadian and S.R. Goldani, "Simultaneous dynamic optimal control of active and reactive power of microgrids in real-time market considering losses," Journal of Energy Management and Technology 5 (1), 23-34, 2021.

[15] S.A. Rafiei, S. Goldani, B. Mohammadi Ivatloo and H. Falaghi, "A bilevel model for generation expansion planning with contract pricing of renewable energy," TABRIZ JOURNAL OF ELECTRICAL ENGINEERING 49 (4), 1639-1648.

[16] S.R. Goldani, R. Ghazi and H. Rajabi Mashhadi, "Development of an analytical model for generation expansion planning as a tool to provide guidelines for preventing instability in the long-term electricity market" IEEJ Transactions on Electrical and Electronic Engineering, Vol. 6, No. 6, 2011; Pages: 558–565, JCR, Scopus.

C. Proceedings Papers

[1] I. Narimani and S.R. Goldani, "Participating of micro-grids in energy and spinning reserve markets—Intra-day market," 2015 30th International Power System Conference (PSC), 129-135, 2015.

[2] I. Narimani, S.R. Goldani, "The stochastic bidding strategy of micro grid for participation in energy and ancillary services" International Conference on Electrical Engineering, University of Tehran, Tehran, Iran, June 2016.

[33] H. Taherian, M.R. Aghaebrahimi and S.R. Goldani, "Application of a customers' behavior learning machine for profit maximization of a retail electric provider in smart grid," 2019 IEEE 13th International Conference on Compatibility, Power Electronics …, 2019.

[4] E. Nokandi, M. Vahedipour-Dahraie and S.R. Goldani, "Bi-Level bidding strategy of a wind power producer considering local intraday demand response exchange market," 2023 31st International Conference on Electrical Engineering (ICEE), 409-413, 2023.