

مهرداد طرفدار حق

استاد

دانشکده: مهندسی برق و کامپیوتر

سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
دکتری	۱۳۸۰	برق - قدرت	تبریز

اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشکده مهندسی برق و کامپیوتر	هیات علمی	رسمی قطعی	تمام وقت	۲۸

سوابق اجرایی

Representative of UOT at industry and university relation committee, Iran

Manager of information technology center, University of Tabriz, Iran

Head of regional universities IT council, University of Tabriz, Iran

Academic council, University of Tabriz, Iran

Mechatronic center of excellence, University of Tabriz, Iran

Manager of student administration office, Faculty of electrical and computer engineering, UOT, Iran

Faculty committee, University of Tabriz, Iran

جوایز و تقدیر نامه ها

Top 2% highly cited researcher selected by SCOPUS

Best researcher of electrical distribution industry, Iran

Superior researcher of East Azarbaijan Province, Iran

Best researcher of University of Tabriz (UOT), Iran

Rank one researcher of faculty of electrical and computer engineering, UOT, Iran

Manager of national standard work-groups on covered and insulated overhead electrical distribution lines

Manager of the right of way rules works group, Ministry of energy, Tavanir Co. Iran

First Honor Researcher of Faculty of Electrical and Computer Engineering, University of Tabriz, Iran

First honor in MSc degree

First honor in BSc degree

First honor in diploma

موضوعات تدریس تخصصی

University of Tabriz, Iran

(Ph.D. (Ph.D. students have to pass twelve credits in their first year of study at UOT

Power generation, operation and control, PV system design, grid integration of wind energy, .power quality, reactive power control

MSc

Power generation, operation and control, PV system design, flexible AC transmission .systems (FACTS), Industrial electronics I

BSc

Fundamental electricity, power system analysis (I) and (II), electric circuits (I), power .electronics and drives, overhead electrical transmission lines

University of Wollongong, Australia

Co-supervisor of undergraduate and postgraduate student 12/2014- 7/2014

Near East University (NEU), Turkish Republic of Northern Cyprus

PhD and MSc

Advanced Alternative Energy Resources- Power generation, operation and cntrol, Flexible AC ,(Transmission Systems (FACTS

I have graduated eight MSc students at NEU

مسابقات

List of Publications

Journal

1. Kasra Shafiei , Saeid Ghassem Zadeh, ***M. Tarafdar Hagh***, " Planning for a network system with renewable resources and battery energy storage, focused on enhancing resilience," Journal of Energy Storage 87 (2024) 111339.
2. A. Seifi, S. H. Hosseini, ***M. Tarafdar Hagh***, M. Hosseinpour, "Capacitor based topology of cross-square-switched T-type multi-level inverter," Scientific Reports, doi: 10.1038/s41598-024-53568-1, 2024, pp. 1-18.
3. A. Seifi, S. H. Hosseini, ***M. Tarafdar Hagh***, M. Hosseinpour, "Reduced component cascaded switched capacitor multilevel

inverter for renewable energy applications," IET, The Journal of Engineering, Nov.2024, pp. 1-13.

4. A. Seifi, S. H. Hosseini, ***M. Tarafdar Hagh***, M. Hosseinpour, "A new submodule-based generalized multilevel inverter topology with reduced switches and DC sources", International Journal of Circuit Theory and Applications, 2024, pp. 1-21.
5. M. Tarafdar-Hagh, N. Hasanlouei, K. Muttaqi, K. Taghizad- Tavana, S. Nojavan, M. Abdi, "Application of saturated core transformer as inrush current limiter," e-Prime - Advances in Electrical Engineering, Electronics and Energy, 9 (2024) 100677, pp. 1-15.
6. S. Nojavan, ***M. Tarafdar Hagh***, K. Taghizad-Tavana, M. Ghanbari-Ghalehjoughi, "Optimal demand response aggregation in wholesale electricity markets: Comparative analysis of polyhedral; ellipsoidal and box methods for modeling uncertainties," Heliyon 10 (2024) e31523, pp. 1-17.
7. K. Taghizad-Tavana, M. Tarafdar-Hagh, S. Nojavan, M. Yasinzadeh, M. Ghanbari-Ghalehjoughi, "Operation of smart distribution networks by considering the spatial–temporal flexibility of data centers and battery energy storage systems," Sustainable Cities and Society 114 (2024) 105746. pp. 1-18.
8. A. Seifi, S. H. Hosseini, ***M. Tarafdar Hagh***, M. Hosseinpour, "A New Multilevel Inverter Based on Reduced Switch Basic Cell for High Voltage Levels", IET Power Electronics, Jan. 2024, pp. 1-13, DOI: 10.1049/pel2.12673.
9. A. Seifi, S. H. Hosseini, ***M. Tarafdar Hagh***, M. Hosseinpour, "Capacitor based topology of cross-square-switched T-type multi-level inverter". Scientific Reports, 2024 Feb 7;14(1):3166. doi: 10.1038/s41598-024-53568-1. PMID: 38326389; PMCID: PMC10850556.
10. H. Muaelou Shaillan , S. Tohidi, ***M. Tarafdar Hagh*** , V. Sohrabi Tabar, "Risk-aware two-stage stochastic short-term planning of a hybrid multi-microgrid integrated with an all-in-one vehicle station and end-user cooperation", Journal of Energy Storage, Vol. 78, 2024, 110083, https://doi.org/10.1016/j.est.2023.110083.
11. R. Deihimi Kordkandi, ***M. Tarafdar Hagh***, S. Roozbehani, M. Feyzi, N. Bayati, T. Ebel, "Reactive power control of micro-grids using FOSMC for grid code compliance during asymmetrical voltage sags", Electric Power Sys. Research, Vol. 229, 2024, 110056, https://doi.org/10.1016/j.epsr.2023.110056.
12. K. Taghizad-Tavana, H. Sarikhan Kheljani, S. Hossein Hosseini, M. Tarafdar-Hagh, M. Daneshvar, " Multi-dimensional management of smart distribution networks: Comparative analysis of box and polyhedral methods for modeling uncertainties," Sustainable Cities and Society, 108 (2024) 105488, pp.1-19.
13. H. Muaelou Shaillan , S. Tohidi, ***M. Tarafdar Hagh*** , V. Sohrabi Tabar, "Risk-aware day-ahead planning of a zero energy hub integrated with green power-to-hydrogen technology using information gap decision theory and stochastic approach and considering demand side elasticity", Energy Reports, Vol. 10, 2023, pp. 4302-4317, https://doi.org/10.1016/j.egyr.2023.10.053.
14. H. Heidari, ***M. Tarafdar Hagh***, P. Salehpoor, "A comparative study of different dynamicec. line rating standards considering transient heat balance", Sustainable Energy, Grids and Networks, Volume 35, September 2023, DOI:10.1016/j.segan.2023.101115.
15. M. Tarafdar Hagh, K. Taghizad Tavana, M. Ghanbari Ghalehjoughi, S. Nojavan, P. Jafari, A. Mohammadpour Shotorbani, "Optimizing Electric Vehicle Operations for a Smart Environment: A Comprehensive Review", Energies, 2023, Vol. 16, 4302. https://doi.org/10.3390/en16114302.
16. K. Shafiei, ***M. Tarafdar Hagh***, A. Seifi, "Integration of wind farm, energy storage and demand response for optimum management of generation and carbon emission", The Journl of Engineering, DOI: 10.1049/tje2.12348, Dec. 2023.
17. M. Zamani Gargari, M. Tarafdar Hagh, S. Gassem Zadeh, "Preventive scheduling of a multi-energy microgrid with mobile energy storage to enhance the resiliency of the system," Elsevier, Energy,Vol. 263, Part C, January 2023.
18. R. Deihimi Kordkandi, ***M. Tarafdar Hagh***, S. Roozbehani, "Real-time low/high-voltage ride-through capability improvement of micro-grid based on coordinated robust grid-following control," IET Generation, Transmission & Distribution, 2022, pp. 3318-3332, DOI: 10.1049/gtd2.12523.
19. N. Danapour, E. Akbari, ***M. Tarafdar Hagh***, "A Review on the Power Circuit Topologies of Current Source Inverters in Photovoltaic Applications," Iranian Journal of Electrical and Electronic Engineering, Vol 18, No. 3, 2022.
20. H. Vatankhah Ghadim, ***M. Tarafdar Hagh***, S. Ghassem Zadeh, "Fermat-curve Based Fuzzy Inference System for the Fuzzy Logic Controller Performance Optimization in Load Frequency Control Application", Springer, Nov. 2022, Fuzzy Optimization and Decision Making, DOI:10.1007/s10700-022-09402-2.
21. N. Danapour S., ***M. Tarafdar Hagh***, S. H. Hosseini, "Integrated wind turbines and power transmission line: A novel concept," Sustainable Energy Technologies and Assessments, Vol. 52, Part B, Aug. 2022.
22. H. Heidari, ***M. Tarafdar Hagh***, P. Salehpoor, "Accurate, simultaneous and Real-Time screening of N-1, N-k, and N-1-1 contingencies," elsevier, International Journal of Electrical Power and Energy Systems, Vol 136, March 2022, doi: 10.1016/j.ijepes.2021.107592.
23. S. Maleki., B. Ray, ***M. Tarafdar Hagh***, "Hybrid framework for predicting and forecasting State of Health of Lithium-ion batteries in Electric Vehicles," Sustainable Energy, Grids and Networks, Vol. 30, June 2022, DOI:10.1016/j.segan.2022.100603.
24. O Sadeghian, A Oshnoei, ***M Tarafdar-Hagh***, M Kheradmandi "A Clustering-Based Approach for Wind Farm Placement in Radial Distribution Systems Considering Wake Effect and a Time-Acceleration Constraint," IEEE Systems Journal, Vol. 15, No. 1, March 2021, pp. 985-995, doi: 10.1109/JSYST.2020.3040217.

25. M. Tarafdar Hagh, Farshid Nejati Mazgar and Sajjad Tawhidi, "A new structure of wind-solar farm with the ability to improve performance in the conditions of voltage drop and grid frequency," Iranian Electrical Engineering and Computer Engineering Journal, A- Electrical Engineering, Spring 1400, Volume 19 , number 1, page 14 to 24.
26. S. Aminzadeh, M. Tarafdar Hagh, H. Seyedi, "Reactive Power Coordination Between Solid Oxide Fuel Cell and Battery for Microgrid Frequency Control", Journal of Applied Research in Electrical Engineering, Volume 1, No. 2, Summer and Autumn 2021, Pages 121-130, doi: 10.22055/JAREE.2021.37177.1028.
27. S. Maleki, ***M, Tarafdar Hagh***, "Review of PV power ramp rate control methods nd their requirements" SVU-International Journal of Engineering Sciences and Applications, Vol. 2, Issue 2, Autumn 2021, pp. 14-25. DOI: 10.21608/svusrc.2021.83458.1011.
28. V. Chakeri, H. Seyedi and ***M. Tarafdar Hagh***, "A New Approach to Transmission Line Pilot Protection in the Presence of Inverter-Interfaced Distributed Generators," in *IEEE Systems Journal*, vol. 15, no. 4, pp. 5383-5392, Dec. 2021, doi: 10.1109/JSYST.2020.3041203.
29. V. Sohrabi Tabar, ***M. Tarafdar Hagh***, M. Ahmadi Jirdehi, "Achieving a nearly zero energy structure by a novel framework including energy recovery and conversion, carbon capture and demand response," Energy & Buildings, Vol 230, 1 Jan. 2021.
30. M. Zamani Gargari, ***M. Tarafdar Hagh***, S. G. Zadeh, " Preventive maintenance scheduling of multi energy microgrid to enhance the resiliency of system," Energy, Vol. 221, 119782, April 2021.
31. S. Abapour, B. Mohammadi-Ivatlooab, ***M. Tarafdar Hagh***, "A Bayesian game theoretic based bidding strategy for demand response aggregators in electricity markets," Sustainable Cities and Society, Volume 54, March 2020.
32. S. Aminzadeha, M. Tarafdar Hagh, H. Seyedi, "Improving the performance of a frequency control system in an islanded microgrid using reactive power," Tabriz Journal of Electrical Engineering (TJEE), vol. XX, no. X, season X , 1399.
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34. S. Aminzadeha, M. Tarafdar Hagh, H. Seyedi, "Reactive power management for microgrid frequency control," International Journal of Electrical Power & Energy Systems, Volume 120, September 2020, https://doi.org/10.1016/j.ijepes.2020.105959.
35. F. Najaty Mazgar, ***M. Tarafdar Hagh***, S. Tohidi, "ESS equipped DFIG wind farm with coordinated power control under grid fault conditions," Nov. 2020, Journal of Power Electronics, 21(11).
36. S. Pouiafar, ***M. Tarafdar Hagh***. K. Zare, "A Circuit Theory Based Method for Transmission Fixed Cost Allocation Based on the Equal-Sharing of Mutual Terms- A Game-Theoretic Rationale," Tabriz Journal of Electrical Engineering (TJEE), Vol. 50, Issue 3, Autumn 2020, pp. 1109-1122.
37. R. Rezvanfar, ***M. Tarafdar Hagh***, K. Zare, "Power-based Distribution Locational Marginal Pricing under High-Penetration of Distributed Energy Resources", International Journal of Electrical Power & Energy Systems, Volume 123, December 2020, https://doi.org/10.1016/j.ijepes.2020.106303.
38. O Sadeghian/, A Oshnoei, ***M Tarafdar Hagh***, R Khezr, "A clustering-based technoeconomic analysis for wind farm and shunt capacitor allocation in radial distribution systems"., International Transactions on Electrical Energy Systems, Nov. 2020.
39. A. Thakallapelli, S. Kamalasadan, K. M. Muttaqi, ***M. Tarafdar Hagh***, "A Synchronization Control Technique for Soft Connection of Doubly Fed Induction Generator Based Wind Turbines to the Power Grids," IEEE Transactions on Industry Applications, Vol. 55, Issue 5, pp. 5277-5288, 2019.
40. H. Heidari, ***M. Tarafdar Hagh***, "Optimal reconfiguration of solar photovoltaic arrays using a fast parallelized particle swarm optimization in confront of partial shading," International Journal of Engineering, Transactions B: Applications, Vol 32, Issue 8, pp. 1177-1185, 2019.
41. M. Tarafdar Hagh, S. Mohammad Sajjadi Kalajahi, N. Ghorbani, "Solution to economic emission dispatch problem including wind farms using Exchange Market Algorithm method", Elsevier, Applied Soft Computing, Vol. 88, March 2020.
42. M. Tahmasbi Fard, ***M. Tarafdar Hagh***, " Current Source Inverter Based Grid Connected Hybrid PVWind Power Generation Unit," International Journal of Electronics, Vol. 107, Issue 5, pp. 839-857, 2020.
43. S. Abapour , B. Mohammadi-Ivatloo, ***M. Tarafdar Hagh***, " Robust bidding strategy for demand response aggregators in electricity market based on game theory", Journal of Cleaner Production, Vol. 243, Jan. 2020, https://doi.org/10.1016/j.jclepro.2019.118393.
44. S. Roozbehani, ***M. Tarafdar Hagh*** , S. Ghassem Zadeh, "Frequency control of islanded wind-powered microgrid based on coordinated robust dynamic droop power sharing, " IET Generation, Transmission & Distribution, Vol. 13, Issue 21, Nov. 2019, pp. 4968-4977.
45. T. Khalili1, ***M. Tarafdar Hagh*** , S. Gassem Zadeh, S. Maleki, "Optimal Reliable and Resilient Construction of Dynamic Self-Adequate Multi-Microgrids under Large-Scale Events," IET Renewable Power Generation, Vol. 13, Issue 10, July 2019, pp. 1750-1760.
46. A. Jahani, , L. Mohammad Khanli, ***M. Tarafdar Hagh***, M. Badamchizadh, "EE-CTA: Energy eficient, concurrent and topology-aware virtual network embedding as a mlti-objective optimization problem," Computer Standards & Interfaces, Vol. 66, Oct. 2019.
47. A. Jahani, L. Mohammad Khanli, ***M. Tarafdar Hagh***, M. Badamchizadh, "Green virtual network embedding with supervised self-

organizing map," Neourocomputing, Vol. 351, July 2019, pp. 60-76.

48. M. Tarafdar Hagh, H. Rezaei, M. Daneshvar, "Faulted feeder identification in active grounded networks," IET Generation, Transmission & Distribution, Vol. 13, Issue 15, Aug. 2019, pp. 3476-3483.
49. O. Sadeghian, A. Oshnoei, R. Khezri, ***M. Tarafdar Hagh***, "Data Clustering-based Approach for Optimal Capacitor Allocation in Distribution Systems Including Wind Farms," IET Generation, Transmission & Distribution, Vol. 13, Issue 15, Aug. 2019, pp. 3397-3408.
50. S. Pouiafar, ***M. Tarafdar Hagh***. K. Zare, "A Circuit Theory Based Method for Transmission Fixed Cost Allocation Based on the Equal-Sharing of Mutual Terms- A Game-Theoretic Rationale," Tabriz Journal of Electrical Engineering (TJEE), Accepted for publication, (in Persian).
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52. S. Pouiafar, ***M. Tarafdar Hagh***. K. Zare, "A Circuit Theory Based Method for Transmission Fixed Cost Allocation Based on a Game-Theory Rationalized Sharing of Mutual-Terms", Journal of Modern Power Systems and Clean Energy, Vol. 7, No. 6, 2019, pp. 1507-1522.
53. A. Rostami;A. Jalilian; ***M. Tarafdaf Hagh***; K. M. Muttaqi; J. Olamaei "Islanding Detection of Distributed Generation based on Rate of Change of Exciter Voltage with Circuit Breaker Switching Strategy", IEEE Transactions on Industry Applications vol. 55, (1) pp. 954-963, 2019.
54. M. Tarafdar Hagh, T. Khalili, "A review of fault ride through of PV and wind renewable energies in grid codes," International Journal of Energy Research, 43(4), pp. 1342-1356, 2019.
55. S. Galvani, ***M. Tarafdar Hagh***. M. B. B. Sharifian, B. Mohammadi Ivatloo, "Multi-Objective Predictability Based Optimal Placement and Parameters Setting of UPFC in Wind Power Included Power Systems," IEEE Trans. on Industrial Informatics, Vol. 15, Issue 2, Feb. 2019, pp. 878-888.
56. F. Hamzeh Aghdam, ***M. Tarafdar Hagh***, "Security Constrained Unit Commitment (SCUC) formulation and its solving with Modified Imperialist Competitive Algorithm (MICA)," Journal of King Saud University - Engineering Sciences, 31(3), pp. 253-261, 2019.
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59. A. Oshnoei, R. Khezri, ***M. Tarafdar Hagh***, K. Techato, SM. Muyeen, O. Sadeghian, "Direct Probabilistic Load Flow in Radial Distribution Systems Including Wind Farms: An Approach Based on Data Clustering," Energies 2018, Vol. 11, Issue 2, 310.
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61. S. Abapour, M. Nazari-Heris, B. Mohammadi-ivatloo, ***M. Tarafdar Hgah***, "Game Theory Approaches for the Solution of Power System Problems: A Comprehensive review", Archives of Computational Methods in Engineering, Nov. 2018, https://doi.org/10.1007/s11831-018-9299-7.
62. T. Jalilzadeh, M. Tarafdar Hagh, M. Sabahi, "Analytical study and simulation of a transformer-less photovoltaic grid-connected inverter with a delta-type tri-direction clamping cell for leakage current eliminatio," COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 37(2), 2018, pp. 814-831.
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65. M. Tarafdar Hagh ; M. Zamani Gargari ; M. J. Vahid Pakdel, "Sequential analysis of optimal transmission switching with contingency assessment," IET Generation, Transmission & Distribution, Vol. 12, Issue 6, 2018, pp. 1390-1396.
66. J. Morsali, Kazem Zare, ***M. Tarafdar Hagh,*** "A novel dynamic model and control approach for SSSC to contribute effectively in AGC of a deregulated power system," Elsevier, Electrical Power and Energy Systems, Vol. 95, 2018, pp. 239–253.
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68. Vahid Chakeri, ***Mehrdad Tarafdar Hagh***, "Optimal Allocation of the Distributed Active Filters Based on Total Loss Reduction", International Journal of Smart Electrical Engineering, Vol.6, No.4, Fall 2017, pp. 171:175.
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88. A. Jalilian, ***M. Tarafdar Hagh***, M. Abapour, K. Muttaqi, “DC-Link Fault Current Limiter-Based Fault Ride-Through Scheme for Inverter-Based Distributed Generation,” IET Renewable Power Generation, August 2015, Vol. 9, Issue 6, pp. 690-699.
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