

## مهرداد طرفدار حق

استاد

دانشکده: مهندسی برق و کامپیوتر



## سوابق تحصیلی

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

## اطلاعات استخدامی

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

## 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 تقدير 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

## م الموضوعات 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 control, 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](https://doi.org/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. Gasseem 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](https://doi.org/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](https://doi.org/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](https://doi.org/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/JYST.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](https://doi.org/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](https://doi.org/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.
33. O. Sadeghian, A. Oshnoei, **M. Tarafdar-Hagh**, R. Khezri, "A clustering-based technoeconomic analysis for wind farm and shunt capacitor allocation in radial distribution systems," *Intl. Transactions on Electrical Energy Systems*, Nov. 2020, DOI:[10.1002/2050-7038.12708](https://doi.org/10.1002/2050-7038.12708).
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. Thakkalappelli, 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).
  51. M. Ahmadvand, S. Khanabdal, and **M. Tarafdar Hagh**, "A Novel Three Phase Saturable-Core Fault Current Limiter Structure", IEEE Trans. On Power delivery, 34(2), pp. 410-419, 2019.
  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. Tarafdar 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.
  57. M. Tahmasbi, **M. Tarafdar Hagh**, S. Pourpayam,A. A. Haghrah, "A Voltage Equalizer Circuit to Reduce Partial Shading Effect in Photovoltaic String, IEEE Journal of Photovoltaics, .Vol. 8, Issue 4, 2018, pp. 1102-1109.
  58. R. Khezri, A. Oshnoei, **M. Tarafdar Hagh**, SM. Muyeen, "Coordination of Heat Pumps, Electric Vehicles and AGC for Efficient LFC in a Smart Hybrid Power System via SCA-Based Optimized FOPID Controllers," Energies 2018, Vol. 11, Issue 2.
  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.
  60. M. Tarafdar Hagh, P. Amiyan, S. Galvani, N. Valizadeh, "Probabilistic Load Flow Using Particle Swarm Optimization Clustering Method," IET Generation, Transmission & Distribution, Vol. 12, Issue 3, 2018, pp. 780-789.
  61. S. Abapour, M. Nazari-Heris, B. Mohammadi-ivatloo, **M. Tarafdar Hagh**, "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.
  63. Z. Saadatizadeh, P. Chavoshipour Heris, M. Sabahi, **M. Tarafdar Hagh**, M. Maalandish, "A New Non-Isolated Free Ripple Input Current Bidirectional DC/DC Converter with Capability of Zero Voltage Switching," International Journal of Circuit Theory and Applications , Intl. Journal of Circuit Theory and Applications, Vol. 46, Issue 3, 2018, pp.519-542.
  64. A.Jalilian, S. B. Naderi, M. Negnevitsky, **M. Tarafdar Hagh**, "Controllable DC-link bridge-type FCL for low voltage ride-through enhancement of converter interfaced DG systems," Elsevier, **International Journal of Electrical Power & Energy Systems**, Vol. 95, Feb. 2018, pp. 653-663.,
  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.
  67. **M. Farhadi; M. Tahmasebi Fard; M. Abapour; M. Tarafdar Hagh**, "DC-AC Converter-Fed Induction Motor Drive with Fault-Tolerant Capability under Open- and Short-Circuit Switch Failures," IEEE Transactions on Power Electronics, Vol. 33, No. 2, Feb., 2018, pp. 1609-1921.
  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.
  69. J. Morsali; K. Zare; **M. Tarafdar Hagh**, "Modified group search optimisation-based comparative performance evaluation of thyristor controlled series capacitor-based fractional order damping controllers to improve load frequency control performance in restructured environment," IET Generation, Transmission & Distribution, Year: 2017, Volume: 11, Issue: 18, pp:4654-4669.
  70. M. Tarafdar Hagh, A. Shaker, F. Sohrabi, I. S. Gunsel, "Fuzzy-Based Controller for DVR in the Presence of DG," Elsevier, Procedia

Computer Science, Vol. 120C, 2017, pp. 684-690.

71. M. Tarafdar Hagh, S. Roozbehania, S. Ghasemzadeh, "Dynamic Reverse Droop Power Sharing in MicroGrid based on Neural Networks," Elsevier, Procedia Computer Science, Vol. 120C, 2017, pp. 766-769.
72. J. Morsali, Kazem Zare, **M. Tarafdar Hagh**, "MGSO-based Comparative Performance Evaluation of TCSC-based Fractional Order Damping Controllers to Improve LFC Performance in Restructured Environment," IET Generation, Transmission & Distribution, Vol. 11, Issue 18, pp. 4654-4669, 2017.
73. J. Morsali, Kazem Zare, **M. Tarafdar Hagh**, "Comparative Performance Evaluation of Fractional Order Controllers in LFC of Two-area Multisource Power System with Considering GDB and GRC Effects," Accepted for publication in Journal of Electrical Systems and Information Technology, Available online 7 June 2017.
74. A. M. A. Haidar; K. M. Muttaqi; M. Tarafdar Hagh, "A Coordinated Control Approach for DC link and Rotor Crowbars to Improve Fault Ride-Through of DFIG based Wind Turbines," IEEE Transactions on Industry Applications, Vol. 53, No. 4, July/August, 2017, pp. 4073-4086.
75. A. Jalilian, S. B. Naderi, M. Negnevitsky, **M. Tarafdar Hagh**, K. Muttaqi, "Low Voltage Ride-Through Enhancement of DFIG-Based Wind Turbine Using DC link Switchable Resistive Type Fault Current Limiter," Elsevier, International Journal of Electrical Power and Energy Systems, Vol. 86, March 2017, pp. 104-119.
76. A. Jalilian, S. B. Naderi, M. Negnevitsky, **M. Tarafdar Hagh**, K. Muttaqi, "Controllable DC-Link Fault Current Limiter Augmentation with DC Chopper to Improve Fault Ride-Through of DFIG," IET Renewable Power Generation," Vol. 11, Issue 2, Feb. 2017, pp. 313-324.
77. J. Morsali, K. Zare, **M. Tarafdar Hagh**, "MGSO Optimized TID-based GCSC Damping Controller in Coordination with AGC for Diverse-GENCOS Multi-DISCOs Power System with Considering GDB and GRC Nonlinearity Effects," IET Generation, Transmission and Distribution, Vol. 11, Issue 1, 2017, pp. 193-208.
78. S. B. Naderi, M. Negnevitsky, A. Jalilian, **M. Tarafdar Hagh**, K. Muttaqi, "Optimum Resistive Type Fault Current Limiter: An Efficient Solution to Achieve Maximum Fault Ride-through Capability of Fixed Speed Wind Turbines during Symmetrical and Asymmetrical Grid Faults", IEEE Transactions on Industry Applications, Vol. 53, No. 1, Jan./Feb./, 2017, pp.538-548.
79. J. Morsali, K. Zare, **M. Tarafdar Hagh**, "Applying fractional order PID to design TCSC-based damping controller in coordination with automatic generation control of interconnected multi-source power system," Elsevier, Engineering Science and Technology, an International Journal, Vol. 20, Issue 1, Feb. 2017, pp. 1-17.
80. S. Moradi, S. Khanmohammadi, **M. Tarafdar Haque**, "A Heuristic Approach to Solve the Unit Commitment Problem based on the Bat Search Algorithm," Tabriz Journal of Electrical Engineering, Vol. 46, Issue 2 (76), pp. 251-265, 2016.
81. S. B. Naderi, M. Negnevitsky, A. Jalilian, **M. Tarafdar Hagh**, "Efficient Fault Ride-Through Scheme for Three-Phase Voltage Source Inverter-Interfaced Distributed Generation Using DC Link Adjustable Resistive type Fault Current Limiter", Elsevier, Renewable Energy, Vol. 92, July 2016, pp. 484-498.
82. M. Jalali, K. Zare and **M. Tarafdar Hagh**, "Timing, Siting, and Sizing of Sub-transmission Substations and Distributed Generation Units Along Planning Horizon," Electric Power Components and Systems, Vol. 44, Issue 10, June 2016, pp 1111-1125.
83. N. Daryani, M. Tarafdar Hagh, S. Teimourzadeh, "Adaptive Group Search Optimization Algorithm for Multi-Objective Optimal Power Flow Problem," Elsevier, Applied Soft Computing, Vol. 38, Issue C, Jan. 2016, pp. 1012-1024.
84. J. Morsali, K. Zare, **M. Tarafdar Hagh**, "Performance comparison of TCSC with TCPS and SSSC controllers in AGC of the realistic interconnected multi-source power system," Elsevier, Ain Shams Engineering Journal, Vol. 7, Issue 1, March 2016, pp. 143-158.
85. S. Moradi, S. Khanmohammadi, **M. Tarafdar Hagh**, B. Mohammadi, "A semi-analytical non-iterative primary approach based on the priority list to solve unit commitment problem," Elsevier, Energy, Vol. 88, August 2015, pp. 244-259.
86. K. R. Milani, **M. Tarafdar Hagh**, "Iran Uses Spacer Cable," July 8, 2015, T&D World Magazine.
87. M. Tarafdar Hagh, H. Ebrahimi, N. Ghadimi, "Hybrid Intelligent Water Drop Bundled Wavelet Neural Network to Solve the Islanding Detection By Inverter-Based DG," Springer, Frontiers in Energy, March 2015, Vol. 9, Issue 1, pp. 75-90.
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.
89. K. Zare, **M. Tarafdar Hagh**, J. Morsali, "Effective oscillation damping of an interconnected multi-source power system with automatic generation control and TCSC", Elsevier, Electrical Power and Energy Systems, Vol. 65, 2015, pp. 220-230.
90. A. Nahavandi, **M. Tarafdar Hagh**, M. B. B. Sharifian, S. Danyali, "A Nonisolated Multi-Input Multi-output DC-DC Boost Converter for Electric Vehicle Applications", IEEE Trans. on Power Electronics, Vol. 30, Issue 4, April 2015, pp. 1818-1835.
91. M. Tarafdar Hagh, N. Ghadimi, "Multisignal Histogram-Based Islanding Detection Using Neuro-Fuzzy Algorithm", Journal of Complexity, Vol. 21, Issue 1, Sept./Oct. 2015, pp. 195-205.
92. P. Dalalian Miandoab, H. Sanaei, **M. Tarafdar Hagh**, H. Khodaei, M. Azadi, "Investigation of Ecological Effects of Artificial Light scattering Systems," Bulletin of Environment, Pharmacology and Life Sciences, Vol. 3, Issue 11, 2014, pp. 204-212.
93. P. Dalalian Miandoab, H. Sanaei, **M. Tarafdar Hagh**, M. Azadi, F. Vandakbar Miandoab, "Review and Offering Solutions to Deal with Light Pollution in Iran in Terms of Technical Reports over the World," Bulletin of Environment, Pharmacology and Life Sciences, Vol. 3, Issue 11, 2014, pp.199-203.

94. A. Jalilian, **M. Tarafdar Hagh**, S. M. Hashemi, 'An innovative Directional Relaying Scheme based on Postfault Current," IEEE Trans. on Power Delivery, Vol. 29, No. 6, Dec. 2014, pp. 2640-2647.
95. E. Davoodi, **M. Tarafdar Hagh**, S. Ghassem Zadeh, "A Hybrid Improved Quantum-behaved Particle Swarm Optimization-Simplex method (IQPSOS) to solve power system load flow problems", Elsevier, Applied Soft Computing, Vol. 21, 2014, pp. 171-179.
96. S. B. Naderi, M. Jafari, **M. Tarafdar Hagh**, "Controllable resistive type fault current limiter (CR-FCL) with frequency and pulse duty-cycle", Elsevier, Electrical Power and Energy Systems, Vol. 61, 2014, pp. 11-19.
97. M. Jalali, K. Zare, **M. Tarafdar Hagh**, "Dynamic expansion planning of sub-transmission substations and defining the associated service area", Elsevier, Electric Power System Research, Vol. 116, 2014, pp. 218-230.
98. S. M. Hashemi, **M. Tarafdar Hagh**, H. Seyedi, "High-speed relaying scheme for the protection of transmission lines in the presence of thyristor-controlled series capacitor", IET Generation, Transmission & Distribution, Vol. 8, Issue 12, Dec. 2014, pp. 2083-2091.
99. [M. Jalali, K. Zare, M. Tarafdar Hagh, "A multi-stage MINLP-based model for sub-transmission system expansion planning considering the placement of DG units"](#), Elsevier, International Journal of Electrical Power & Energy Systems, Vol. 63, Dec. 2014, pp. 8-16.
100. M. Tarafdar Hagh, M. Alipour, S. Teimourzadeh, "Application of HGSO to security-based optimal placement and parameter setting of UPFC", Elsevier, Energy Conversion and Management, Vol. 86, 2014, pp. 873-885.
101. M. Tarafdar Hagh, S. Teimourzadeh, M. Alipour, P. Aliasghary, "Improved Group Search Optimization Method for Solving CHPED in Large Scale Power Systems", Elsevier, Energy Conversion and Management, Vol. 80, issue , April 2014, pp. 446 – 456.
102. S. Galvani, **M. Tarafdar Hagh**, M. B. Sharifian, "Unified Power Flow Controller Impact on Power System Predictability", IET, Generation, Transmission & Distribution, Vol. 8, Issue. 5, 2014, pp. 819-827.
103. M. Tarafdar Hagh, M. Ahmadi, A. R. Milani, P. Salehpour, B. Asadzadeh, "Implementation of State Estimation in Iran North-West Dispatching Center", Tabriz Journal of Electrical Eng., Vol. 45, No. 1, spring 2014, Serial No. 71, pp. 43-51, (in Persian).
104. M. Tarafdar Hagh, N. Ghadimi, "Radial Basis Neural Network based Islanding Detection in Distributed Generation", International Journal of Engineering, Trans. A: Basics, Vol. 27, No. 7, July 2014, pp. 1061-1070.
105. M. Tarafdar Hagh, M. B. B. Sharifian, S. Galvani, "Impact of SSSC and STATCOM on Power System Predictability", Elsevier, Intl. J. of Electrical Power and Energy Systems, Vol. 56, March 2014, pp. 159-167.
106. M. Ahmadi Jirdehi, **M. Tarafdar Hagh**, K. Zare, "Simultaneous Identification and Correction of Measurement and Branch Parameter Errors", Turkish Journal of Electrical and Computer Sciences, Vol. 22, Issue 4, 2014, pp. 858-873.
107. S. M. Hashemi, **M. Tarafdar Hagh**, H. Seyedi, "A Novel Backup Distance Protection Scheme for Series-Compensated Transmission Lines", IEEE Trans. Power Delivery, Vol. 29, No. 2, April 2014, pp.699-707.
108. S. B. Naderi, M. Jafari, **M. Tarafdar Hagh**, "Parallel-Resonance-Type Fault Current Limiter", IEEE Trans. On Industrial Electronics, Vol. 60, No 7, July 2013, pp. 2538-2546.
109. Z. Hooshi, **M. Tarafdar Hagh**, M. Sabahi, "Line to Line Compensator (LLC), A New Generation of FACTS Controllers", Tabriz Journal of Electrical Eng., Vol. 44, No. 1, 2013, pp. 57-67.
110. K. Zare, **M. Tarafdar Haque**, E. Davoodi, "Discussion of "Solving non-convex economic dispatch problem with valve-point effects using modified group search optimizer method" Electric Power Systems Research" 84 (2012) 83–89", Elsevier, Electric Power System research, Vol. 95, 2013, pp. 353-355.
111. M. Tarafdar Hagh, A. Roshan Milani, B. Mozaffari, "Harmonic Voltage Estimation of Distribution Networks Using Inverse PCA", Tabriz Journal of Electrical Eng., Vol. 42, No. 1, 2013, pp.39-47, (in Persian).
112. S. M. Hashemi, M. Tarafdar Hagh, H. Seyedi, "Transmission-Line Protection: A Directional Comparison Scheme Using the Average of Superimposed Components", IEEE Trans. on Power Delivery, Vol. 28, No. 2, April 2013, pp. 955-964.
113. M. Ahmadi, **M. Tarafdar Hagh**, K. Zare, "Simultaneous Processing of Measurement and Parameters Errors in Dynamic State Estimation", Iranian Electric Industry Journal of Quality and Productivity (IEIJQP), Vol. 1, No. 2, 2013, pp. 58-67 (in Persian).
114. S. M. Mahaei, **M. Tarafdar Hagh**, K. Zare, "Modeling FACTS Devices in Power System State Estimation", International Journal of Electrical and Computer Engineering (IJECE), Vol. 2, No. 1, Sept. 2012, pp. 57-67.
115. S. Mehdi Mahaei, **M. Tarafdar Hagh**, "Minimizing the Number of PMUs and Their Optimal Placement in Power Systems", Elsevier, Electric Power System Research, Vol. 83, Issue 1, Feb. 2012, pp. 66-72.
116. K. Zare, **M. Tarafdar Haque**, E. Davoodi, "Solving Non-Convex Economic Dispatch Problem with Valve Point Effects Using Modified Group Search Optimizer Method", Elsevier, Electric Power System Research, 84, 2012, pp. 83-89.
117. M. Tarafdar Hagh, N. Ghadimi, "New Islanding Detection Algorithm For Wind Turbine", International Review of Automatic Control (IREACO), Vol. 4., No. 4, 2011, pp. 542-546.
118. M. Tarafdar Hagh, N. Ghadimi, S. Najafi, 'Hybrid Method to Detect the Anti-Islanding Mode Protection for Wind Turbine with Internally Excited system", International Review of Automatic Control (IREACO), Vol. 4., No. 4, 2011, pp. 542-546.
119. M. Tarafdar Hagh, A. Roshan Milani, M. R. Azimzadeh, "Investigation of Harmonic Current Source Effects on Distribution and Transmission Lines Capacity and Losses: Case Study", International Journal on Technical and Physical Problems of Engineering (IJTPE), Sept. 2011, Issue 8, Vol. 3, No. 3, pp.81-85.

120. S. M. Mahaei, **M. Tarafdar Hagh**, K. Zare, "Improving Bad Data Detection in State Estimation of Power Systems", International Journal of Electrical and Computer Engineering (IJECE), Vol. 1, No. 2, Sept. 2011.
121. M. Jafari, S. B. Naderi, **M. Tarafdar Hagh**, M. Abapour, S. H. Hosseini, "Voltage Sag Compensation of Point of Common Coupling (PCC) Using Fault Current Limiter", IEEE Trans. on Power Delivery, Vol. 26, Issue 4, Oct. 2011, pp. 2638-2646.
122. M. Tarafdar Hagh, S. Galavani, "Minimization of Load Shedding by Sequential Use of Linear Programming and Particle Swarm Optimization", Vol. 19, No. 4, 2011, pp.551-563, Turkish Journal of Electrical and Computer Sciences.
123. A. Khoshkbar Sadigh, **M. Tarafdar Hagh**, M. Sabahi, "Unified Power Flow Controller based on two Shunt Converters and a Series Capacitor", Vol. 80, Issue 12, Dec. 2010, Elsevier, Electric Power Systems Research, pp. 1511–1519.
124. S. Khammohammadi, M. Amiri, **M. Tarafdar Haque**, "A New Three-Stage Method for Solving Unit Commitment Problem", Elsevier, Energy, Vol. 35, Issue 7, 2010, pp. 3072-3080.
125. E. Rasooli Anarmarzi, M. R. Feyzi, **M. Tarafdar Hagh**, "Hierarchical Fuzzy Controller Applied to Multi-Input Power System Stabilizer", Turkish Journal of Electrical and Computer Sciences, Vol. 18, Issue 4, 2010, 541-552.
126. M. Tarafdar Hagh, M. Ahmadi Jirdehi, " A Robust Method for State Estimation of Power System with UPFC ", Turkish Journal of Electrical and Computer Sciences, Vol. 18, Issue 4, 2010, 571-582.
127. H. Taghizadeh, **M. Tarafdar Hagh**, "Harmonic Elimination of Cascade Multilevel Inverters with Non-equal DC Sources Using Particle Swarm Optimization", IEEE Trans. on Ind. Elect., Vol. 57, No. 11, Nov. 2010, pp. 3678-3684.
128. M. Tarafdar Hagh, B. Tousi, H. Taghizadeh, "Optimum Switching Angles Estimation for Multi-Level Inverters Using Neural networks in a Wide Range of Modulation Index", International Journal of Engineering Science, Vol. 19, No. 10-A, 2009, No. 87-97.
129. M. Tarafdar Hagh, Hassan Taghizadeh. Kaveh Razi, "Harmonic Minimization in Multilevel Inverters Using Modified Species-based Particle Swarm Optimization", IEEE Transaction on Power Electronics, Vol. 24, Issue 10, Oct. 2009, pp. 2259-2267.
130. M. Tarafdar Hagh, S. J. Kazempour, "Evaluation of TCSC on Overload Reduction of Transmission Lines and Voltage Stability of buses in Fault Condition", University of Tehran, Journal of Faculty of Engineering, Vol. 42, No. 7, Feb. 2009, pp. 891-899, (in Persian).
131. H. Taghizadeh, **M. Tarafdar Hagh**, "Elimination of Specific Higher Order Harmonics in Multilevel Converters Using Particle Swarm Optimization", University of Tehran, Journal of Faculty of Engineering, Vol. 42, No. 7, Feb. 2009, pp. 901-912, (in Persian).
132. M. Tarafdar Hagh, M. Abapour, "Non-superconducting Fault Current Limiter with Controlling the Magnitudes of Fault Currents", IEEE Transactions on Power Electronics, Vol. 24, No. 3, March 2009, pp. 613-619.
133. M. Abapour, **M. Tarafdar Hagh**, M. Sabahi, "A Novel Structure for Fault Current Limiter", Iranian Journal of Electrical and Computer Engineering (IJECE), Vol. 6, No. 4, Winter 2009, pp. 326-334, (in Persian).
134. M. Tarafdar Hagh, M. Abapour , "Non-Superconducting Fault Current Limiters", European Transactions on Electrical Power, Vol. 19, Issue 5, July 2009, pp. 669-682.
135. M. Tarafdar Hagh, A. Atashi "New Arc Starter and Cycle by Cycle Current Control Strategy for Improving the Operation of Inverter Based Arc Welding Supply", The Modares Journal of Electrical Engineering, Vol. 7, Issue 1, Winter 2007, pp. 101-110, (in Persian).
136. E. Babaei, S. H. Hosseini, G. B. Gharepetian, M. Tarafdar Hagh, M Sabahi, "Reduction of DC Voltage Sources and Switches in Asymmetrical Multilevel Converters using a Novel Topology", Elsevier Electric Power System Research, No. 77, June 2007, pp. 1073-1085.
137. M. Tarafdar Hagh, M. Abapour, "DC Reactor Type Transformer Inrush Current Limiter", IET Electric Power Applications (IEE), Vol. 1, No. 5, Sept 2007, pp. 808-814.
138. S. H. Hosseini, **M. Tarafdar Hagh**, H. Veladi, M. Bahrami, "Design, simulation and Implementation of Static VAR Compensator Based on Instantaneous reactive Power Theory", Journal of Faculty of Engineering", University of Tabriz, Vo. 30, No. 1 (Electrical Eng.), Spring 2004, pp. 1-12 (in Persian)
139. M. Tarafdar Haque, S. H. Hosseini, "A High-Quality Multi-Level VSI suitable for High Power and High Voltage Application" , Iranian Journal of Science & Technology, Shiraz University, I. R. of Iran, Trans. B, Vol. 26, No. B4, Autumn 2002, pp. 679-686, (in Persian).
140. M. Tarafdar Haque, S. H. Hosseini, "The Simulation of a SVC and a Parallel Active Filter By Means of Transfer Function Concept of VSI", Iranian Journal of Science &Technology, School of Engineering, Shiraz University, I. R. of Iran, Trans. B, Vol. 26, No. B4, Autumn, (in Persian).
141. M. Tarafdar Haque, S. H. Hosseini, "A New Strategy for Simultaneous Compensation of Instantaneous Reactive Power and Harmonic of Non-Linear Loads", International Journal of Engineering, Vol. 14, No. 4, Nov. 2001, pp. 333-338.
142. S. H. Hosseini, **M. Tarafdar Haque**, R. M. Mathur "Dynamic Compensation of Electrical Power Systems Using Multilevel Voltage Source Inverter", International Journal of Engineering, Vol. 14, No.3, Aug. 2001, pp. 215-228.
143. M. Tarafdar Haque, T. Ise, S. H. Hosseini, A Novel Control Strategy for Active Filters Usable in Harmonic Polluted and/or Imbalanced Utility Voltage Case", Journal of Japan Society for Power Electronics, Vol. 26, No. 1, 2000, pp.86-94.
144. S. H. Hosseini, **M. Tarafdar Haque**, M. Yari, "A New Generalized Direct Frequency Converter", Journal of Faculty of Engineering,

University of Tabriz, No. 23, Autumn & Winter 1999, pp. 21-28 (in Persian).

145. S. H. Hosseini, **M. Tarafdar Haque** "The Compensation of Power System by Inverters", Journal of Faculty of Engineering, University of Tabriz, No. 12, Winter 1996, pp. 42-55 (in Persian).
146. S. H. Hosseini, **M. Tarafdar Haque**, G. Khandar, "Analysis and Simulation of a New Control Scheme for Pulse Width Modulated Series Resonant Converter", International Journal of Engineering, Iran University of Science & Technology, Vol. 6, No. 1a, pp. 59-74, 1995.
147. S. H. Hosseini, **M. Tarafdar Haque** "The Presentation of a New Active Filter with Amplitude Modulation of Difference Wave", Journal of Faculty of Engineering, University of Tabriz, No. 4, Autumn 1994, pp. 1-12 (in Persian).
148. R. Kenarangi, **M. Tarafdar Haque**, "Green-House Effect and its Relationship with Electrical Industry" Journal of Science & Technology, IRAN, 1990, No. 6, pp. 1-9 (in Persian).

#### Conference Papers:

1. A. Seifi, A. Nadermohammadi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Hosseinpour, "Design and Implementation of Generalized Multilevel Inverter With Reduced Switch Count," 14th Smart Grid Conference (SGC2024).
2. A. Seifi, A. Nadermohammadi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Hosseinpour, " Novel Multilevel Inverter Based on New Subcell with Reduced Switches," 14th Smart Grid Conference (SGC2024).
3. A. Seifi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Hosseinpour, S. Daneshgar, "Novel Cascaded Multilevel Inverter Topology with Lower Number of Switching Devices," 14<sup>th</sup> Power Electroics & Drives: System and Technology Conference (PEDSTC 2023), Babol Noshirvan University of Technology, Iran, 31 Jan.-2 Feb. 2023.
4. A. Seifi, A. Nadermohammadi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Hosseinpour, "A New Structure of Symmetric/Asymmetric Single Phase Multilevel Inverter to Reduce the Number of Switches and Total Blocking Voltage," 9th International Conference on Technology and Energy Management (ICTEM) 14-15 February, 2024, University of Science and Technology of Mazandaran, Behshahr, Mazandaran, Iran.
5. A. Seifi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Hosseinpour, "A New Multilevel Inverter with Limited Switching Devices and DC Sources," 9th International Conference on Technology and Energy Management (ICTEM) 14-15 February, 2024, University of Science and Technology of Mazandaran, Behshahr, Mazandaran, Iran.
6. Kasra Shafiei, Ali Seifi, **M. Tarafdar Hagh**, "Optimal Generation and Reduce Carbon Emissions Through the Integration of Wind Turbine, Battery Energy Storage Systems, and Demand Response," 28th Electrical Power Distribution Conference, April 23-25, 2024, Zanjan, Iran.
7. A. Seifi. S. H. Hosseini, **M. Tarafdar Hagh**, "A New Multilevel Inverter Topology with Limited Switching Component", PEDSTC 2024,
8. K. M. Muttaqi, **M. Tarafdar Hagh**, T. Creek, M. G. M. Abdolrasol, M. S. Hossain Lipu and M. A. Hannan, "Hybrid Operation of Super-Capacitor and Battery Storage to Improve Electric Vehicles Performances," 2022 IEEE Industry Applications Society Annual Meeting (IAS), Detroit, MI, USA, 2022, pp.
9. M. Tarafdar Hagh, G. Majid Fadhl, H. Ismael Hind, "Wind Turbine Pitch Controller Parameters Optimization By Grey Wolf Optimization Algorithm", International Journal of Industrial Electronics and Electrical Engineering, ISSN(p): 2347-6982, ISSN(e): 2349-204X Volume-11, Issue-4, April.-2023, <http://ijieee.org.in>
10. M. Abdi, K. Taghizade Tavana, **M. Tarafdar Hagh**, S. Hatami, "Reduction of losses in active distribution networks by battery energy storage systems", 2024 9th International Conference on Technology and Energy Management (ICTEM) 14-15 February, 2024, University of Science and Technology of Mazandaran, Behshahr, Mazandaran, Iran"
11. Abolfazl Hadavi, Karim Roshan Milani, **M. Tarafdar Hagh**, "Visibility of power distribution network using neural network", 13th Smart Grid Conference (SGC 2023), 2023
12. A. Saifi, S. H. Hosseini, **M. Tarafdar Hagh**, M. Sabahi and M. Hosseinpour. A new multilevel voltage source inverter with the aim of reducing switching for high levels. The 29th International Conference on Electrical Engineering of Iran, 2021.
13. Ali Seifi, Seyed-Hossein Hosseini, and **M. Tarafdar Hagh**. "Novel Low Power Switch-Count Structure for Medium/High Power Multilevel Inverter." In 2021, 29th Iranian Conference on Electrical Engineering (ICEE), pp. 241-245. IEEE, 2021, doi: 10.1109/ICEE52715.2021.9544439.
14. A. Shaker and **M. Tarafdar Hagh**, "Delicate Viewpoint in Optimal PMU and Conventional Measurement Placement through MINLP Approach," 2021 11th Smart Grid Conference (SGC), 2021, pp. 1-7, doi: 10.1109/SGC54087.2021.9664183.
15. Abolfazl Hadavi, **M. Tarafdar Hagh**, "Prediction of cloud movement and reduction of shadowing effect on photovoltaic systems", 11th Smart Energy Networks Conference, Tabriz - 16-18-12, 2021, Tabriz University - article code 1059
16. Ali Seifi, **M. Tarafdar Hagh** and Seyed Hossein Hosseini, "Designing the electrical system of traveling caravans with wind and solar energy sources", 7th International Conference on Technology and Energy Management, 9th and 10th of Shahrivar 1400, Ardabil UniversityM. Tarafdar Hagh, S. Pouyafar, F. Sohrabi, A. Shaker, M. Vahid-Ghavidel, J. P. S. Catal o, M. Shafie-khah, "Reliable and Environmental Economic Dispatch in a Microgrid with Renewable Energy Sources," 13th IEEE Power Tech 2019,

Milan, Italy, 23-27 June, 2019.

17. M. Tarafdar Hagh, V. Chakeri, " Low voltage overhead distribution neural wire multi-grounding by poles (NGP)," CIRED 3-6 June 2019, Madrid, Spain
18. V. Chakeri, **M. Tarafdar Hagh**, A. Khedri, Saed Solgi, "Multi-objective Optimization of Distributed Power Filter System (DPFS) Placement," 33rd International Power System Conference (PSC), 2018, Tehran, Iran.
19. V. Chakeri, **M. Tarafdar Hagh**, "Optimal Allocation of the Distributed Active Filters Based on Total Loss Reduction", 32rd International Power System Conference (PSC), 2017, Tehran, Iran,
20. Vahid Chakri, Mehrdad Tarafdar Hagh, "Multipurpose placement of distributed active filters in the electricity distribution network", 6th Sired Regional Conference, January 2016, Tehran, Iran
21. V. Chakri, **M. Tarafdar Hagh**, Saeed Selgi, Ali Khodri, Ali Asadi Astaraki, "Investigation of the effect of the difference in the cost of compensation in the placement of active filters", National Conference on New Approaches in the Electricity Industry, Islamic Azad University Science and Research Branch, Tehran, Mehr 1396
22. A. Thakkalapelli, K. M. Muttaqi, S. Kamalasadan, **M. Tarafdar Hagh**, "A synchronization control technique for soft connection of doubly-fed induction generator based wind turbines to the power grids," 2017 IEEE Industry Applications Society Annual Meeting, 1-5 Oct. 2017, Cincinnati, OH., USA,
23. M Tarafdar Hagh, Omid Baghban Orandi, "A Modified Artificial Bee Colony Algorithm Application for Economic Environmental Dispatch," 2<sup>nd</sup> Intl. Conf. on Mechatronics and Electrical Systems (ICMES), 22-25 Dec. 2018, Wuhan, China.
24. M. Tarafdar Hagh, M. Jadidbonab, M. Jedari, "Control strategy for reactive power and harmonic compensation of three-phase grid-connected photovoltaic system," 24th International Conference & Exhibition on Electricity Distribution (CIRED), 12-15 June 2017, pp. 559-563.
25. M. Tarafdar Hagh, Farshid Najaty Mazgar, Saam Roozbehani, Amin Jalilian, "THD minimisation of multilevel inverter with optimised dc sources magnitude and switching angles," 24th International Conference & Exhibition on Electricity Distribution (CIRED), 12-15 June 2017, pp. 875-878.
26. M. Tarafdar Hagh, A. Shaker, F. Sohrabi, I. S. Gunsel, "Fuzzy-Based Controller for DVR in the Presence of DG," 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception, ICSCCW 2017, 24-25 August 2017, Budapest, Hungary
27. M. Tarafdar Hagh, S. Roozbehania, S. Ghasemzadeh, "Dynamic Reverse Droop Power Sharing in MicroGrid based on Neural Networks," 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception, ICSCCW 2017, 24-25 August 2017, Budapest, Hungary
28. A. Oshnoei, **M. Tarafdar Hagh**, R. Khezri, B. Mohammadi-Ivatloo, "Application of IPSO and Fuzzy Logic Methods in Electrical Vehicles for Efficient Frequency Control of Multi-Area Power Systems," 25<sup>th</sup> Iranian Conference on Electrical Engineering (ICEE), 2-4 My, 2017, Tehran, Iran, pp. 1349-1354.
29. A. Rostami, A. Jalilian, **M. Tarafdar Hagh**, K. M. Muttaqi, J. Olamaei, "Islanding Detection of Distributed Generation based on Rate of Change of Exciter Voltage and Mechanical Power with Circuit Breaker Switching Strategy," IEEE Industry Applications Society Annual Meeting, 1-5 Oct. 2017, Cincinnati, OH, USA
30. M Zamani-Gargari, **M Tarafdar-Hagh**, B Mohammadi-Ivatloo, "Improving Wind Forecasting Accuracies by Considering Stochastic Dependence of Random Variables with Copula Theory," 2016 1st International Conference on New Research Achievements in Electrical and Computer Engineering.
31. M Zamani-Gargari, B Mohammadi-Ivatloo, **M. Tarafdar Hagh**, "Stochastic Unit Commitment by Considering High Integration of Wind Power," 2016 1st International Conference on New Research Achievements in Electrical and Computer Engineering.
32. M. Tarafdar Hagh, F. Hamzeh, "Smart Hybrid Nanogrids Using Modular Multiport Power Electronic Interface," 28 Nov.-1st Dec. 2016, IEEE PES Innovative Smart Grid Technologies – Asia, ISGT Asia 2016, Melbourne, Australia. pp. 618-623.
33. S. B. Naderi, M. Negnevitsky, A. Jalilian, **M. Tarafdar Hagh**, "Fault Ride Through improvement of Fixed Speed Wind Turbine Using CR-FCL with its Modified Control Strategy," Australasian Universities Power Engineering Conference (AUPEC'06), University of Queensland, Brisbane, Australia, 25-28 September 2016.
34. M. Tarafdar Hagh, M. Sabahi, "A Single-Phase Unified Power Quality Conditioner (UPQC)," 28 Sept.-1<sup>st</sup> Oct. 2016, IEEE POWERCON 2016, Wollongong, Australia.
35. H. Abaspour, **M. Tarafdar Hagh**, "Solving Unit Commitment by using Combination of Ant Colony and Priority List by Application of Sequential Constraints", 1st Intl. Conf. on New Research Achievements in Electrical and Computer Engineering, 13 May 2016, Tehran, Amirkabir University (in Persian).
36. P. Aliasghari, **M. Tarafdar Hagh**, M. Abapour, M. Bayrami, "Design of PID Controller for UPFC based Damping Stabilizer Using Group Search Optimization Algorithm," 23<sup>rd</sup> Iranian Conf. on Electrical Eng. (ICEE), Tehran, Iran, 2016.
37. S. B. Naderi, **M. Tarafdar Hagh**, "Non-controlled Fault Current Limiter to Improve Fault Ride-through Capability of DFIG-Based Wind Turbine," 2016 IEEE PES General Meeting, July 17 - 21, 2016 in Boston, MA, USA.
38. F. Hamzeh Aghdam, **M. Tarafdar Hagh**, "Reliability Evaluation of Two-Stage Interleaved Boost Converter Interfacing PV Panels Based on Mode of Use," The 7th Power Electronics, Drives Systems and Technologies Conference", (PEDSTC2016), 16-18 Feb. 2016, Tehran, Iran, pp. 409-414.

39. J. Morsali, K. Zare, **M. Tarafdar Hagh**, "AGC of Interconnected Multi-source Power System with ConsideringGDB and GRC Nonlinearity Effects," 6th Conf. on Thermal Power Plants, 19-20 January 2016, University of Science and Technology, Tehran, Iran, pp. 12-17.
40. H. Ghadimi, **M. Tarafdar Hagh**, A. Akbari Majd, N. Ghadimi, "Implementation of a New Method to Protect the Islanding with the Aim of Decreasing the Non-recognisable Region ", 4th Regional Conf. on Electricity Distribution, 5-6 January 2016, Tehran, Iran (in Persian).
41. M. Tarafdar Hagh, P. Aliasghari, J. Morsali, "Coordinated Design of UPFC Damping Controller and CPSS Using Group Search Optimization Algorithm," 23<sup>rd</sup> Iranian Conf. on Electrical Eng. (ICEE), Tehran, Iran, 2015, pp. 1446-1451.
42. A Haidar, K. M. Muttaqi, **M. Tarafdar Hagh**, "A Coordinated Control Approach For DC Link And Rotor Crowbars To Improve Fault Ride-Through of DFIG based Wind Turbines," IEEE Industry Applications Society Annual Meeting, Addison, Texas, USA, 18-22 Oct. 2015, pp. 579-586.
43. S. B. Naderi, M. Negnevitsky, A. Jalilian, **M. Tarafdar Hagh**, K. M. Muttaqi, "Optimum Resistive Type Fault Current Limiter: An Efficient Solution To Achieve Maximum Fault Ride-Through Capability Of Fixed Speed Wind Turbines During Symmetrical And Asymmetrical Grid Faults," IEEE Industry Applications Society Annual Meeting, Addison, Texas, USA, 18-22 Oct. 2015, pp. 694-701.
44. M. Abutorabi, P. Naderi, **M. Tarafdar Hagh**, "Estimation of Defected Insulators Share in Electrical Distribution Power Loss,", [30th International Power System Conference \(PSC\), 2-4 Nov. 2015, Tehran, Iran](#), (in Persian).
45. M. Tarafdar Hagh, J. Morsali, K. Zare, K. Muttaqi, "Introducing FOPLC Based TCSC in Coordination With AGC To Improve Frequency Stability of Interconnected Multi-Source Power System," Australasian Universities Power Engineering Conference (AUPEC'05), 27-30 Sept. 2015, Wollongong, Australia.
46. S. Naderi, M. Negnevitsky, A. Jalilian, **M. Tarafdar Hagh**, K. M. Muttaqi, "Voltage Sag Compensation Of Point Of Common Coupling For Low Voltage Ride-Through Enhancement of Inverter Interfaced DG Using Bridge Type FCL," Australasian Universities Power Engineering Conference (AUPEC'05), 27-30 Sept. 2015, Wollongong, Australia.
47. M. Tarafdar Hagh, A. Jalilian, S. Naderi, M. Negnevitsky, K. M. Muttaqi, "Improving Fault Ride-Through Of Three-Phase Voltage Source Inverter during Symmetrical Fault Using DC Link Fault Current Limiter," Australasian Universities Power Engineering Conference (AUPEC'05), 27-30 Sept. 2015, Wollongong, Australia.
48. M. Tarafdar Hagh, B. Nouri, Mahmoud Nouri, H. Lomei, K. Muttaqi, "A New Protection Scheme for the DC Traction System Supply," Australasian Universities Power Engineering Conference (AUPEC'05), 27-30 Sept. 2015, Wollongong, Australia.
49. M. Tarafdar Hagh, S. Roozbehai, F. Najaty, S. Ghaemi, Y. Tan, K. Muttaqi, "Direct Power Control of DFIG based Wind Turbine based on Wind Speed Estimation and Particle Swarm Optimization," Australasian Universities Power Engineering Conference (AUPEC'05), 27-30 Sept. 2015, Wollongong, Australia.
50. M Tarafdar Hagh, K. M. Muttaqi, D Sutanto, M. S. A. Hossain, A. Haidar, "[Improving fault ride-through capability of DFIG based wind generators by using bridge-type superconducting fault current limiter](#)," 50th International Universities Power Engineering Conference (UPEC), 1-4 Sept. 2015.
51. A Haidar, **M. Tarafdar Hagh**, K. M. Muttaqi, "[Improving low voltage ride-through using a super capacitor at the DC link of Doubly-Fed Induction Generator based wind turbine](#)," 50th International Universities Power Engineering Conference (UPEC), 1-4 Sept. 2015.
52. M. Tarafdar Hagh, K. Muttaqi, "[Using Harmonized Europe Network Code as a Benchmark for Compatibility Testing of Australia and Iran Grid Codes](#)," International Conference and Exhibition on Electricity Distribution - CIRED 2015,15-18 June 2015, Lyon, France.
53. M. Ahmadi Jirdehi, **Mehrdad Tarafdar Hagh**, "Identification and Estimation of Branch Parameter Errors: A New Three Stages Method," The 22nd Iranian Conference on Electrical Engineering (ICEE), May 20-22, 2014, Shahid Beheshti University, Tehran, Iran, pp. 568-573.
54. M. Tarafdar Hagh, T. Ahmadzadeh, K. M. Muttaqi, D. Sutanto, "Load Flow Analysis of Radial and Weakly Meshed Distribution Systems including Distributed Generations", Australian Universities Power Engineering Conference (AUPEC), 28 Sept.-1 Oct. 2014, Perth, Australia.
55. A.R. Milani, B. Asadzadeh, h. Mokhtari, **M. Tarafdar Hagh**, "Performance of an Over Voltage Relay at Harmonic Polluted Conditions", 10th International Conference on Technical and Physical Problems of Electrical Engineering, 7-8 September 2014, Institute of Physics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan.
56. A.R. Milani, **M. Tarafdar Hagh**, B. Mozafari, B. Asadzadeh, "Harmonic Source Estimation Of Distribution Networks Using ICA Method", 10th International Conference on Technical and Physical Problems of Electrical Engineering, 7-8 September 2014, Institute of Physics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan.
57. J. Morsali, K. Zare, **M. Tarafdar Hagh**, "Appropriate Generation Rate Constraint (GRC) Modeling Method for Reheat Thermal Units to Obtain Optimal Load Frequency Controller (LFC)," The 5<sup>th</sup> Conf. on Therma Power Plants (IPGC 2014), 10-11 June, 2014, Shahid Beheshti University, Tehran, Iran.
58. E. Naderi, M. T. Hagh and K. Zare, "Determination of the performance of the distribution static compensator (D-STATCOM) in distribution network," 22nd International Conference and Exhibition on Electricity Distribution (CIRED 2013), 2013, pp. 1-4, doi: 10.1049/cp.2013.1093.
59. E. Naderi, **M. Tarafdar Hagh**, A. Mashadi, K. Sabahi, "Eddy Current Analysis of DC Rail Transport by Finite Element Methods",

- 3<sup>rd</sup> Intl. Conf. on Recent Advances in Rail Eng. (ICRARE2013), Univ. of Science and Ind. of Iran, May 2013, Tehran, (in Persian).
60. B. Noori, **M. Tarafdar Hagh**, "A New Protectin Method for Supply System of Rural Train", Rail Transport Conference, Tehran, Nov. 2013, (in Persian).
61. M. Tarafdar Hagh, T. Sojoodi, M. Sojoodi, R. Medadov, "Electrical Parameters Stability Improvement of AlGaAs-GaAs Photo Voltaic Cells", Intl. power Sys. Conf., Tehran, 4-6 Nov. 2013, (in Persian).
62. M. Tarafdar Hagh, F. Niknam, "Series Active Filter based on Improved Double Flying Capacitor Converter", Intl. power Sys. Conf., Tehran, 4-6 Nov. 2013, (in Persian).
63. M. Tarafdar Hagh, S. Teimourzadeh, M. Alipour, "Combined Heat and Power Dispatch using Modified Group Search Optimization Method", 28th Intl. power Sys. Conf., Tehran, 4-6 Nov. 2013.
64. F. Najaty, **M. Tarafdar Hagh**, S. E. Baghbani, "Dual Output Power Electronic Transformer", Intl. Conf. on Electrical Eng. (ICEE2013), May 2013, Tehran, Iran.
65. M. Tarafdar Hagh, A. Gashanghpour, K. Roshan Milani, "Design and Mass Production of Medium Voltage Spacers", Paper No. 1315, CIRED, 10-13- June 2013, Stockholm, Sweden.
66. L. Mohammadian, S. Khani, **M. Tarafdar Hagh**, E. Babaei, "A New Method for Distribution Networks Design for Loss Reduction and Voltage Profile Improvement", 18<sup>th</sup> Elect. Dist. Conf., May 2013, Kermanshah, Iran, (in Persian).
67. M. Tarafdar Hagh, K. R. Milani, B. Adham, "Necessity of Production and Using Standard Low Voltage Aerial Bundled Cables", 18<sup>th</sup> Elect. Dist. Conf., May 2013, Kermanshah, Iran, (in Persian).
68. M. Tarafdar Hagh, Gh. Khoshkholgh, A. A. Iavartalab, K. R. Milani, "Basics of Determination of Right of Way Rules of Distribution Networks", 18<sup>th</sup> Elect. Dist. Conf., May 2013, Kermanshah, Iran, (in Persian).
69. B. Noori, **M. Tarafdar Hagh**, "Modeling the System of Tabriz Urban Train", 3<sup>rd</sup> Intl. Conf. on Recent Advances in Rail Eng. (ICRARE2013), Univ. of Science and Ind. of Iran, May 2013, Tehran, (in Persian).
70. A. Jalilian, **M. Tarafdar Hagh**, K. Sabzevari, M. Baledi, "A New Technique based on FCL for increasing Security and Quality of Micro-Grids", First National Conf. on Power Systems Engineering, Univ. of Malaier, April 2013, (in Persian).
71. A. Jalilian, **M. Tarafdar Hagh**, K. Sabzevari, M. Baledi, "Dynamic Modelling of HTS Fault Current Limiter for Increasing Security and Performance of DFIG against Symmetrical Faults", First National Conf. on Power Systems Engineering, Univ. of Malaier, April 2013, (in Persian).
72. E. Naderi, **M. Tarafdar Hagh**, K. Zare, "Determination of the performance of Distribution Static Compensator (D-STATCOM) in distribution network", Paper No. 1147, CIRED, 10-13- June 2013, Stockholm, Sweden.
73. B. Moradi, S. Ghasemzadeh, **M. Tarafdar Hagh**, "Economical Scheduling Distributed Generators in Micro-Grids", Intl. Conf. on Recent Advances in Engineering, Feb. 2013, (ICRAE2013), Islamic Azad Univ. of Khomeini Shahr, Khomeini Shahr, Iran, (in Persian).
74. B. Moradi, S. Ghasemzadeh, **M. Tarafdar Hagh**, "Economical Optimization of Power Generation in Micro-Grids", Intl. Conf. on Recent Advances in Engineering, Feb. 2013, (ICRAE2013), Islamic Azad Univ. of Khomeini Shahr, Khomeini Shahr, Iran, (in Persian).
75. E. Mokhtarpour Habashi, **M. Tarafdar Hagh**, "Single-phase transformer-less buck-boost residential fuel cell based DG", CIRED 2012, 29-30 May 2012, Lisbon, 21<sup>st</sup> Intl. Conf. and Exhibition on Electricity Dist. Paper No. 0229.
76. M. Tarafdar Hagh, M. M. Hosseini, S. Asgarifar, "A novel phase to phase fault location algorithm for distribution network with distributed generation", CIRED 2012, 29-30 May 2012, Lisbon, 21<sup>st</sup> Intl. Conf. and Exhibition on Electricity Dist. Paper No. 0267.
77. K. Roshan Milani, **M. Tarafdar Hagh**, "Spacer Cable Project, Successful Experience of Electric Industry and University Cooperation", First Conf. on Electric Industry with Universities and Research Centers, 12 Dec. 2012, Tehran, (in Persian).
78. J. Jafarzadeh, **M. Tarafdar Hagh**, K. Zare, "Distribution Networks Reconfiguration based on Varying Load and Energy Cost Curves", 8<sup>th</sup> International Conference on "Technical and Physical Problems of Power Engineering", 5-7 September 2012, Ostfold University College, Fredrikstad, Norway, No: 12910601.
79. M. Tarafdar Hagh, M. Farsadi, S. Galavani, "A Probabilistic Approach for Optimal Capacitor Placement in Unbalanced Distribution Systems Using NSGA\_II", 12<sup>th</sup> International Conference on Probabilistic Methods Applied to Power Systems (PMAPS'2012), 10-14 June 2012 Istanbul, Turkey, Istanbul Technical University, Taskisla Campus
80. S. Pooiafar, **M. Tarafdar Hagh**, S. Ghasemzadeh, "Detection of Simultaneous Multi-Faults in Power System", ICEE 2012, May 2012, Tehran Univ., Tehran, (in Persian).
81. L. Mohammadian, A. Mohammadian, S. Khani, **M. Tarafdar Hagh**, E. Babaei, "Using a Hybrid Evolutionary Method for Optimal Planning, and Reducing Loss of Distribution Networks", 16<sup>th</sup> Electrical Power Distribution Networks (EPDC), 2011, Bandarabbas, Iran.
82. S. M. Hashemi, **M. Tarafdar Hagh**, H. Seiedi, "Protection of IPFC included Transmission Lines by using Travelling Waves", 6th Protection and Control of Power systems Conf., Sharif Industry University, Tehran, Dec. 2011, (in Persian).
83. F. Najati, **M. Tarafdar Hagh**, E. Babaei, "Distribution Electronic Power Transformer with Reduced Number of Power Switches", IEEE PEDSTC, Tehran, Iran, 2012, pp.324-329.
84. J. Jafarzadeh, **M. Tarafdar Hagh**, "Determination of the Optimal State Variables in the Weighted Least Square Estimator", 7th International Conference on Technical and Physical Problems of Power Engineering" 7-9 July 2011, Near East University,

Lefkosa, TR Northern Cyprus.

85. J. Jafarzadeh, **M. Tarafdar Hagh**, S. M. Mahaei, P. Farhadi, "Optimal Placement of FACTS devices based on Network Security", 3<sup>rd</sup> Intl. Conf. on Computer Research and Development (ICCRD), Vol. 3, pp. 345-349, Shanghai, 2011.
86. M. Tarafdar Hagh, N. Ghadimi, F. Hashemi, S. J. Zebardast, "New Islanding Detection Algorithm for Wind Turbines", IEEE 10th Intl. Conf. on Environment and Elect. Eng. (EEEIC 2011), 8-11 May, Rome, Italy, 2011.
87. M. Tarafdar Hagh, S. B. Naderi, M. Jafari, "Using Non-superconducting Fault Current Limiter as Inrush Current Limiter", ELECO 2011, 7th Intl. Conf. on Elect. and Electronics Eng., 1-4 Dec. 2011, Bursa, Turkey, Paper ID: 134, pp. 269-273.
88. Mehdi Jafari, S. Behzad Naderi, **M. Tarafdar Hagh**, "Soft Starting of Medium Voltage Induction Motors Using a Resistive Type Fault Current Limiter", ELECO 2011, 7th Intl. Conf. on Elect. and Electronics Eng., 1-4 Dec. 2011, Bursa, Turkey, Paper ID: 180, pp. 231-235.
89. S. B. Naderi, M. Jafari, **M. Tarafdar Hagh**, "Impact of Bridge Type Fault Current Limiter on Power System Transient Stability", ELECO 2011, 7th Intl. Conf. on Elect. and Electronics Eng., 1-4 Dec. 2011, Bursa, Turkey, Paper ID: 235, pp. 148-152.
90. L. Mohammadian, **M. Tarafdar Hagh**, E. Babaei, S. Khani, "Using PSO for Optimal Planning, and Reducing Loss of Distribution Networks", ELECO 2011, 7th Intl. Conf. on Elect. and Electronics Eng., 1-4 Dec. 2011, Bursa, Turkey, Paper ID: 10, pp. 65-70.
91. A. Ajami, **M. Tarafdar Hagh**, A. Yarahmadi, M. Yoonesi, "A Proposed Algorithm to use SVM Method in Z-Source DVR", 26<sup>th</sup> Intl. Power Sys. Conf. (PSC 2011), 31 Oct. – 2 Nov. 2011, Tehran, Iran, 11-F-PQA-1503, (in Persian).
92. Z. Hooshi, **M. Tarafdar Hagh**, M. Sabahi, "Line to Line Compensator (LLC), a New Generation of FACTS Controllers", 24th Canadian Conference on Electrical and Computer Engineering (CCECE 2011), 8-11 May 2011, Marriot gateway, Niagara falls, Ontario, Canada, pp. 723-726.
93. M. Mahaei, **M. Tarafdar Hagh**, K. Zare, "Determination of the Optimal State Variables in the Weighted Least Square Estimator", 7th International Conference on Technical and Physical Problems of Power Engineering" 7-9 July 2011, Near East University, Lefkosa, TR Northern Cyprus, pp. 222-226.
94. M. Tarafdar Hagh, M. Jafari , S. B. Naderi, "New Series Resonance Type Fault Current Limiter", Intl. Conf. on Power Systems transients (IPST) 2011, 14-17 June, Delft, Netherlands, paper 246.
95. M. Tarafdar Hagh, S. B. Naderi and M. Jafari, "Improvement of Power System Transient Stability Using a Controllable Resistor Type Fault Current Limiter", Intl. Conf. on Power Systems transients (IPST) 2011, 14-17 June, Delft, Netherlands, paper 247.
96. M. Tarafdar Hagh, K. R. Milani M. R. Osooli, "Design and Installation of First 20 KV Spacer Cable in Iran", CIRED 2011, 6-9 June 2011, Frankfurt, 21st Intl. Conf. and Exhibition on Electricity Dist. Paper No. 0452.
97. V. Hosseinezhad, **M. Tarafdar Hagh**, E. Babaei, "Quantum particle swarm optimization for economic dispatch problem with valve-point effect", 19th Iranian Conference on Electrical Engineering (ICEE), 2011, Amir Kabir Univ. of Technology, Tehran, Iran, 17-19 May 2011.
98. V. Hosseinezhad, E. Babaei, **M. Tarafdar Hagh**, "Application of QPSO for Reconfiguration of Radial Distribution Lines for Power Loss Reduction", 19th Iranian Conference on Electrical Engineering (ICEE), 2011, Amir Kabir Univ. of Technology, Tehran, Iran, 17-19 May 2011, (in Persian).
99. S. Asgarifar, M. Tarafdar Hagh, M. M. Hosseini, "A Novel Fault Location Algorithm for Double Fed Distribution Networks", IEEE Power Engineering and Automation (PEAM) Conference, Vol. 1, pp. 327-330, 2011
100. M. Tarafdar Hagh, E. Mokhtarpour Habashi, A. S. Khoshkbar, G. Gharehpetian, "Flying Capacitor Multicell Converter Based Uninterruptable Power Supply Fed by Fuel Cell", Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM'10), Pisa, Italy, 14-16 June 2010.
101. N. Ghadimi, **M. Tarafdar Hagh**, F. Hashemi, H. Ghadimi, "New Anti-Islanding Method by Combination of some Existing Methods", 25<sup>th</sup> Intl. Power System Conference (PSC 2010), 10-F-PDS-1306, (in Persian).
102. S. M. Mahaei, **M. Tarafdar Hagh**, "Optimum PMU Placement in Developing Networks", 25<sup>th</sup> Intl. Power System Conference (PSC 2010), 98-F-DTC-1481, (in Persian).
103. M. Tarafdar Hagh, M. Jafari, S. B. Naderi, "New Resonance Type Fault Current Limiter", 2010 IEEE Intl .Conf. on Power and Energy (PECon 2010), 29 Nov.-1 Dec., pp. 507-511, 2010, Kuala Lumpur, Malaysia.
104. M. Tarafdar Hagh; S. B. Naderi, M. Jafari, "Application of Non-superconducting Fault Current Limiter to Improve Transient Stability", 2010 IEEE Intl .Conf. on Power and Energy (PECon 2010), 29 Nov.-1 Dec. 2010, Kuala Lumpur, Malaysia.
105. M. Hadizadeh, **M. Tarafdar Hagh**, K. R. Milani, "Problems of Low Voltage Aerial Bundled cables Due to NonStandard IPCs", 15'th Electric Power Distribution Conf. (EPDC), 4-5 May 2010, Tehran, (in Persian).
106. K. R. Milani, **M. Tarafdar Hagh**, "Economic Analysis of Medium Voltage Overhead Non-bare Distribution Conductors", 15'th Electric Power Distribution Conf. (EPDC ), 4-5 May 2010, Tehran, (in Persian).
107. M. Tarafdar Hagh, K. R. Milani, "Design and Installation of First Iran 20 KV Overhead Spacer Cable Project", 15'th Electric Power Distribution Conf. (EPDC ), 4-5 May 2010, Tehran, (in Persian).
108. M. Tarafdar Hagh, M. Ahmadi Jirdehi, "Optimal Placement and Sizing Parallel Capacitors in Distribution Networks for Power Loss Reduction in Varying Load Condition", 18th Iranian Conference on Electrical Engineering, Isfahan, Iran, 11-13 May, ICEE 2010, pp. 1663-1669, (in Persian).
109. M. Tarafdar Hagh, S. Galvani, "A Multi-Objective Genetic Algorithm for Weighted Load Shedding", 18th Iranian Conference on

Electrical Engineering, Isfahan, Iran, 11-13 May, ICEE 2010, pp. 867 – 873.

110. A. R. Marami Iranaq, **M. Tarafdar Hagh**, E. Babaei, "A UPFC Based on Matrix Converter", 1'st Power Electronics & Drive Systems & Technologies Conference (PEDSTC'10), 17-18 Feb. 2010, Tarbiat Modarres Univ., Tehran, Iran, pp. 95-100
111. M. Tarafdar Hagh, M. Jafari, S. B. Naderi, "Transient Stability Improvement Using Non-superconducting Fault Current Limiter", 1'st Power Electronics & Drive Systems & Technologies Conference (PEDSTC'10), 17-18 Feb. 2010, Tarbiat Modarres Univ., Tehran, Iran, pp. 367-370.
112. M. Tarafdar Hagh, "Necessities, Advantages and problems of Using All Aluminium Alloy Conductors (AAAC) in Iran Overhead Electrical Distribution Lines", 15'th Electric Power Distribution Conf. (EPDC), 4-5 May 2010, Tehran, (in Persian).
113. S. H. Hosseini, **M. Tarafdar Hagh**, M. Jafari, S. B. Naderi, S. Gassehzadeh, "Power Quality Improvement using a New Structure of Fault Current Limiter", Intl. Conf. on Electrical/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), Thailand, 2010, pp.641-645.
114. L. Mohammadian, **M. Tarafdar Hagh**, "Introducing WAMS and its Applications for of Interruptions", 12'th Intl. Student Conference on Electrical Engineering (ISCEE), 13-15 Aug. 2009, (in Persian).
115. M. Tarafdar Hagh, H. Latafat, "Transient Stability Analysis of Controlled Power Systems by using Lyapunov Energy Function", 17'th Iranian Conference on Electrical Engineering, May 12-14, ICEE 2009, Tehran, Iran (in Persian).
116. E. Rasooli, M. R. Feizi, **M. Tarafdar Hagh**, "Hierarchical Fuzzy Controller Applied to Multi-input Power System Stabilizer", 17'th Iranian Conference on Electrical Engineering, May 12-14, ICEE 2009, Tehran, Iran (in Persian),
117. M. Tarafdar Hagh, S. Hadi Hosseini, S. Galavani, H. Hosseinian, "Optimum Load Shedding in Contingency Conditions by using PSO Algorithm ", 17'th Iranian Conference on Electrical Engineering, May 12-14, ICEE 2009, Tehran, Iran (in Persian)
118. M. Tarafdar Hagh, M. Ahmadi Jirdehi, "State Estimation of Power Systems with UPFC by using Conjugate Gradient", 17'th Iranian Conference on Electrical Engineering, May 12-14, ICEE 2009, Tehran, Iran (in Persian).
119. M. Tarafdar Hagh, A. M. Kashtiban, "Particle Swarm Optimization and Finite-Element based Approach for Shell Type Distribution Transformers Design", 2'nd Global Conference on Power Control & Optimization (PCO 2009), 1-3 June 2009, Bali, Indonesia, pp. 26 of abstracts book.
120. M. Tarafdar Hagh, A. Roshan Milani, A. Lafzi, "Optimizing Transient Behavior of Wind Farm Equipped by Switching Capacitors", 2'nd Global Conference on Power Control & Optimization (PCO 2009), 1-3 June 2009, Bali, Indonesia, pp. 27 of abstracts book.
121. M. Tarafdar Hagh, A. Khoshkbar Sedigh, "Elimination of Instantaneous Backward mmf in Single Phase Induction Motors", The 5<sup>th</sup> IEEE GCC Conf. & Exhibition, 17-19 March 2009, Kuwait
122. M. Tarafdar Hagh, A. Sadigh Manesh, M. R. Hesamzadeh, "Improvement of Load Bus Voltages Considering the Optimal Dispatch of Active and Reactive Powers", 43<sup>rd</sup> Intl. Universities Power Engineering Conference (UPEC'08), 1-4 Sept. 2008, Padova, Italy.
123. B. Asadzadeh, H. Farajbakhsh, **M. Tarafdar Hagh**, "The Necessary to Modifying Iran Right of Way of Transmission Lines", 23 Intl. Power system Conference, PSC 2008, 30 Nov.- 2 Dec., 98-F-SEA-0141, 2008, Tehran, Iran, in Persian.
124. H. Taghizadeh, **M. Tarafdar Hagh**, "Harmonic Elimination of Multilevel Inverters Using Particle Swarm Optimization" International Symposium on Industrial Electronics (ISIE08) 30 June – 2 July 2008, Cambridge, United Kingdom, pp. 393-396.
125. M. Tarafdar Hagh, H. Taghizadeh, K. Razi, "Optimum control of Multilevel Inverters Using Artificial Neural Networks", International Symposium on Industrial Electronics (ISIE08), 30 June – 2 July 2008, Cambridge, United Kingdom, pp. 2336-2341.
126. M. Tarafdar Hagh, A. Roshan Milani, A. Lafzi "Dynamic Stability Improvement of a Wind Farm Connected to Grid Using STATCOM", Electrical Engineering/Electronics, Computer, Telecommunication and Information Technology (ECTI'08), 14-17 May 2008, Krabi, Thailand, pp. 1057-1060.
127. S. Daniali, S. H. Hosseini, **M. Tarafdar Hagh**, "Multiple Application of Distribution Connected Photovoltaic Modules as Active Filter for Fast Maximum Power Point Tracking", 16'th Iranian Conf. on Electrical Engineering (ICEE'08), 13-15 May 2008, Tehran, Iran, pp. 118-123 (in Persian).
128. S. Daniali, S. H. Hosseini, **M. Tarafdar Hagh**, "Fast Maximum Power Point Tracking Method for Utility Connected Single-Phase Photovoltaic Modules Usable for Harmonic Compensation of Loads", 16'th Iranian Conference on Electrical Engineering (ICEE'08), 13-15 May 2008, Tehran, Iran, pp. 111-117 (in Persian).
129. K. Roshan Milani, Gh. Fallahnegad, **M. Tarafdar Hagh**, "Presentation of the Results of First Production of Aluminum Alloy 5005 in Iran and its Application in Distribution Networks", 13'th Electrical Power Distribution Conf. (EPDC'08), 30 April-1 May 2008, Zibakenar, Gilan, Iran, pp. , (in Persian).
130. M. Tarafdar Hagh, A. Lafzi, A. Roshan Milani, "Dynamic and Stability Improvement of a Wind Farm Connected to Grid Using UPFC", IEEE Intl. Conf. on Industrial Technology, 21-24 April 2008, Chengdu, Sichuan, China.
131. E. Rasooli, M. R. Feizi, **M. Tarafdar Hagh**, "Improvement of Multi-input Power System Stabilizer by Using Fuzzy Controller", 23 Intl. Power system Conference, PSC 2008, 30 Nov.- 2 Dec., 98-F-PSS-0235, 2008, Tehran, Iran
132. S. Khanmohammadi, **M. Tarafdar Hagh**, M. Abapour, "Fuzzy Logic based SVC for Reactive Power Compensation and Power Factor Correction", The 8'th Intl. Power Eng. Conf. (IPEC'07), 3-6, Dec. 2007, Singapore, pp.1241-1246.
133. M. Tarafdar Hagh, K. Razi, H. Taghizadeh, "Fault Classification and Location of Power Transmission Lines using Artificial Neural Networks", The 8'th Intl. Power Eng. Conf. (IPEC'07), 3-6, Dec. 2007, Singapore, pp. 1109-1114.

134. M. Tarafdar Hagh, M. Valizadeh, "Analysis and Comparative Study of Transient Inrush Current Reduction methods", The 8'th Intl. Power Eng. Conf. (IPEC'07), 3-6, Dec. 2007, Singapore, pp. 287-291.
135. K. Razi, **M. Tarafdar Hagh**, Gh. Ahrabian, "High Accurate Fault Classification of Power Transmission Lines Using Fuzzy Logic", The 8'th Intl. Power Eng. Conf. (IPEC'07), 3-6, Dec. 2007, Singapore, pp. 42-46.
136. M. Tarafdar Hagh, A. Roshan Milani, A. Lafzi, "Coordinated Design of PSS and TCSC Dynamics Model for Power System Network Oscillations", The 7<sup>th</sup> Intl. Conf. on Power Electronics and Drive Systems (PEDS 2007), 27-30 Nov., Bangkok, Thailand, pp. 411-416.
137. M. Tarafdar Hagh, A. Roshan Milani, A. Lafzi, "Dynamic and Stability of a Wind Power Plant that is Connected to Distribution Network", 22<sup>nd</sup> Intl. power System Conf., 19-21 Nov. 2007, Tehran, Iran, Paper No. 98-F-REN-718, (in Persian)
138. M. Tarafdar Hagh, H. Latafat, " Parameters of Ant Colony Algorithm for Solving Unit Commitment Problem", 22<sup>nd</sup> Intl. power System Conf., 19-21 Nov. 2007, Tehran, Iran, Paper No. 98-F-PSS-750 (in Persian)
139. R. Ajabi Farshbaf, B. Toosi, **M. Tarafdar Hagh**, "Application of Genetic Algorithm in Designing a Self Tuning Adaptive Controller for using in Power System Stabilizers", 22<sup>nd</sup> Intl. power System Conf., 19-21 Nov. 2007, Tehran, Iran, paper No. 98-E-PSS-666 (in Persian).
140. S. H. Hosseini, M. Abapour, **M. Tarafdar Hagh**. "Power Quality Improvement by use of a New Topology of Fault Current Limiter", Electrical Eng./Electronics, Computer, Telecommunication and Information Tech. (ECTI) Intl. Conf, 2007, Chiang Mai, Thailand, May 9-12, pp. 305-308.
141. E. Moradi, **M. Tarafdar Hagh**, S. H. Hosseini, "Improvement of Available Transfer Capability (ATC) by using SSSC", 22<sup>nd</sup> Intl. power System Conf., 19-21 Nov. 2007, Tehran, Iran, Paper No. 98-F-PQA-315 (in Persian)
142. Haque, M.T., Abapour, M., "Power loss analysis of single and three phase fault current limiters," WSEAS Transactions on Systems, 5(5), pp. 1208-1213, 2006.
143. M. Tarafdar Hagh , M. Abapour, "A New Topology of Fault Current Limiter and its Control Strategy", SICE-ICASE Intl. Joint Conf., 18-21 Oct. 2006, Busan, Korea, pp. 5520-5534.
144. J. Feiz, **M. Tarafdar Haque**, "Distribution of Magnetic Field of Power Lines with Different Configurations", IEEE Power India Conference, 10-12 April 2006, New Delhi, India.
145. A. Pashaei, **M. Tarafdar Haque**, S. Alizadeh, "Control of Output Voltage of Simple DC-DC Converters", IEEE Vehicle Power and Propulsion Conference (VPPC), 6-8 Sept. 2006, Windsor England, United Kingdom.
146. M. Abapour, **M. Tarafdar Hagh**, "A Non-Control Transformer Inrush Current Limiter", IEEE Intl. Conf. on Ind. Technology ICIT 2006, Mumbai, 15-17 Dec. India, pp. 2390-2395.
147. S. Tizghadam, F. Shahnia, H. Hoseinian, **M. Tarafdar Hagh**, "Crisis Management and its Role on Generation, Transmission, and Distribution of Electrical Energy", The 1'st Intl. Conf. on Integrated Natural Disaster Management (INDM-2006), 29-30 Jan., Tehran, Iran, pp. 53, (in Persian)
148. T. Noormohammadi, M. Asiabi, **M. Tarafdar Haque**, "Cooperation Potential on Geothermal energy between Iran and Turkey", TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering, May 29-31, 2006, Ankara, Turkey, pp. 1044-1048.
149. M. Tarafdar Haque, A. Pashaei, R. Fathi, "Control of output Voltage of Simple DC-DC Converters" TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering, May 29-31, 2006, Ankara, Turkey, pp. 910-914.
150. M. Tarafdar Haque, E. Moradi, "Unit Commitment using Loss Penalty Factors", TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering, May 29-31, 2006, Ankara, Turkey, pp. 554-557.
151. K. Roshan Milani, M. Tarafdar Haque, M. Alahverdy Navasi, "Reduce Technical & Economical Problems of Power Distribution Overhead Lines using Covered Conductors",TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering, May 29-31, 2006, Ankara, Turkey, pp. 465-469.
152. M. Tarafdar Haque, M. Zeiaee, M. Farrokhirifar, "State Feedback Control of Series DC Motors with Permanent Magnet Core", TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering, May 29-31, 2006, Ankara, Turkey, pp. 227-231.
153. M. Tarafdar Haque, S. M. Seyed Giasi, K. R. Milani, M. Mostofi, "State of The Art of Application of Covered Conductors in IRAN", TPE-06 3rd International Conference on Technical and Physical Problems in Power Engineering May 29-31, 2006, Ankara, Turkey, pp. 872-876.
154. G. Ahrabian, F. Shahnia, **M. Tarafdar Haque**, "Hybrid Filter Applications for Power Quality Improvement of Power Distribution Networks Utilizing Renewable Energies", [IEEE International Symposium on Industrial Electronics](#), 9-13 July 2006, Vol. 2, Montreal, Canada, pp. 1161-1165.
155. A. M. Kashtiban, A. R. Milani, **M. Tarafdar Haque**, "Finite Element Calculation of Winding Type Effect on Leakage Flux in Single Phase Shell Type", Intl. Conf. on Application of Electrical Eng., 12-14 March. 2006, Prague, Check Republic, pp. 39-43.
156. M. Gandchi, **M. Tarafdar Haque**, A. Yazdanpanah, "Available Transfer Capability Calculation with Transfer based Static Security -Constrained Optimal Power", Intl. Conf. on Application of Electrical Eng., 12-14 March. 2006, Prague, Check Republic, pp. 30-35.
157. A. Charmin, **M. Tarafdar Haque**, M. Abapour, "Non-Superconducting Fault Current Limiter", Intl. Conf. on Application of

Electrical Eng., 12-14 March. 2006, Prague, Check Republic, pp. 12-17.

158. M. Tarafdar Haque, M. Sabahi, "A ZVS Cycloconverter based Series Active Filter", Intl. Conf. on Application of Electrical Eng., 12-14 March. 2006, Prague, Check Republic, pp. 18-23.
159. M. Tarafdar Haque, A. Atashi, "A Simple Arc Starter and Arc Stabilizer Circuit for Inverter-Based Arc Welding Power Supply", Intl. Conf. on Application of Electrical Eng., 12-14 March. 2006, Prague, Check Republic, pp. 1-5.
160. F. Shahnia, A. M. Kashtiban, K. Roshan Milani, **M. Tarafdar Haque**, "Insulation Effects and Characteristics of XLPE Covered Overhead Conductors in Low and Medium Voltage Power Distribution Systems in Iran", IEEE Intl. Symposium on Elect. Insulation, Toronto, ON, Canada, 11-14 June 2006, pp. 64-67.
161. A. Kazemi, A. Mokhtarpour, M. Tarafdar Haque, "A new control Strategy for Unified Power Quality Conditioner (UPQC) in Distribution Systems", Intl. Conf. on Power Sys. Technology, PowerCon 2006,
162. M. Tarafdar Haque, F. Shahnia, M. Sarhangzadeh, "Power Quality Concerns of Unit Commitment of Main Transformers for DC Electrified Urban Railway Systems", International Conference on Power Electronics and Intelligent Control, for Energy Conservation, Warsaw, 17-19 October 2005, paper ID 68
163. M. Tarafdar Haque, R. Fathi, "Application of Universal Custom Power Conditioner in Distribution Networks", International Conference on Power Electronics and Intelligent Control, for Energy Conservation, Warsaw, 17-19 October 2005, paper ID 165
164. M. Tarafdar Haque, R. Fathi, "A Novel Optimal Controller for Tracking of Reference Compensating Currents of Parallel Active Filter", International Conference on Power Electronics and Intelligent Control, for Energy Conservation, Warsaw, 17-19 October 2005, paper ID 66
165. M. Tarafdar Haque, Sh. Sarlak, N. Mahboobifar, "Control of Active Power Filter Using DC Bus Voltage", International Conference on Power Electronics and Intelligent Control, for Energy Conservation, Warsaw, 17-19 October 2005, paper ID 70
166. M. Tarafdar Haque, A. Pashaei, "Design of a SMES Supported Dynamic Voltage Restorer for Sensitive Loads", International Conference on Power Electronics and Intelligent Control, for Energy Conservation, Warsaw, 17-19 October, .2005, paper ID 67
167. M. Tarafdar Haque, S. Najafi, "Application of Neuro-Fuzzy Dynamic Programming to Improve the Reactive Power and Voltage Profile of a Distribution Substation", The Fourth World Enformatika Conf., 24-26 June 2005, Istanbul, Turkey, Vol. 6, pp.126-129
168. M. Tarafdar Haque, A. Taheri, "Using Neural Network for Execution of Programmed Pulse Width Modulation (PPWM) Method", The Fourth World Enformatika Conf. , 24-26 June 2005, Istanbul, Turkey, Vol. 6, pp. 58-61
169. M. Tarafdar Haque, A. M. Kashtiban, "Application of Neural Networks in Power Systems; A Review", The Fourth World Enformatika Conf. , 24-26 June 2005, Istanbul, Turkey, Vol. 6, pp. 53-57
170. A. Mashhadi Kashtiban, M. Vakili, **M. Tarafdar Haque**, "Analysis of Dynamic Immunity of Tie Lines in Multi-Area Power Systems Using Neural Networks", 20'th Intl. Power Sys. Conf. Tehran, Iran, PSC 2005, paper ID 98-F-PQA-454, (in Persian)
171. M. Tarafdar Haque, S. Ghiasi, M. Mostoofi, F. Farnam, "Overhead Covered Conductors and Experimental Results of its Sub-Industrial Production", 20'th Intl. Power Sys. Conf. PSC 2005, Tehran, Iran, paper ID 98-F-PDS-468, (in Persian)
172. F. Shahnia, **M. Tarafdar Haque**, "Different and New Methods of Optimization of Dimensions of Transmission Lines' Towers and their Effects on Right of Way, Electrical and Electrical Parameters", 20'th Intl. Power Sys. Conf. PSC 2005, Tehran, Iran, paper ID 98-F-PTL-597, (in Persian).
173. E. Babaei, S. H. Hosseini, **M. Tarafdar Haque**, "A Novel Approach to Multilevel Current Source Converters", The 2005 Electrical Engineering/Electronics, Computer, Telecommunications, and Information Technology (ECTI) Intl. Conf., 12-13 May 2005, Pattaya, Cholburi, Thailand, pp. 177-180.
174. E. Babaei, **M. Tarafdar Haque**, S. H. Hosseini, "A Novel Structure for Multilevel Converters", Intl. Conf. on Electrical Machines and Systems, Sept. 27-29, 2005, Nanjing, China, Vol. 2, pp. 1278-1283.
175. M. Tarafdar Haque, S. Ghiasi, K. Roshan Milani, "Overhead Covered Conductors, the Future Generation of Distribution Lines in Iran", 10'th Conf. On Distribution Network of Electrical Energy, 4-5 May 2005, Tabriz, Iran, Faculty of Electrical and Computer Engineering, pp. 64-72, (in Persian).
176. M. Tarafdar Haque, P. Alami, F. Shahnia, "Philosophy of Right of Way and Compact Lines", 1'st CompacTransmission Lines Seminar, 19-20 May, Sari, Mazandaran, Iran, pp. 225-235, (in Persian)
177. M. Tarafdar Haque, "A control strategy based on extended p-q theory usable in parallel active filters," 2004 IEEE International Symposium on Industrial Electronics, 2004, pp. 791-796 vol. 2, doi: 10.1109/ISIE.2004.1571914.
178. L. Zeini, S. H. Hosseini, **M. Tarafdar Haque**, S. Khanmohammadi, "A New Method for Utilization and Control of Parallel UPSs in Power Systems", 19'th Intl. Power Sys. Conf.(PSC), 22-24 Nov. 2004, Tehran, Iran, 98-F-PQA-515, (in Persian).
179. M. Tarafdar Haque, S. Ghiasi, M. Nahl, "Technical and Economical Comparison between Aluminum Conductor and Copper Conductor Cables", 19'th Intl. Power Sys. Conf.(PSC), 22-24 Nov. 2004, Tehran, Iran, 98-F-PTL-430., (in Persian).
180. M. Tarafdar Haque, "Parallel Single-Phase Current Source Inverters (CSIs) as a Multi-level CSI Active Filter", Symposium on Power Electronics, Electrical Drives, Automation & Motion (SPEEDAM) 2004, Italy, Capri, 16-18 June, F1B-1 – F1B5.
181. S. Ghasemzadeh, M. Tarafdar Haque, "Series Multi-Level Voltage Source Inverters (MLVSI) as a High-Quality MLVSI", Symposium on Power Electronics, Electrical Drives, Automation & Motion (SPEEDAM) 2004, Italy, Capri, 16-18 June, pp. T2A-1 – T2A5.

182. S. H. Hosseini, S. Shahmohammadi, **M. Tarafdar Haque**, "A New Hybrid filter for Power Quality Improvement in Power Systems", 2<sup>nd</sup> International Symposium on Electrical, Electronic and Computer Engineering, 11-13 March 2004, Nicosia, North Cyprus, pp. 78-83.
183. M. Tarafdar Hagh, "A Control Strategy based on Extended pq theory usable in parallel Active Filters", IEEE Intl. Symposium on Industrial Electronics (ISIE'04), 4-7 May 2004, Ajaccio, France, Vol. 2, pp. 791-796.
184. S. H. Hosseini, M. Tarafdar Haque, S. Shahmohammadi, "A Shunt Active Power Filter Control for Unbalanced Conditions", 10'th IEEE Intl. Conf. on Electronics, Circuits, and Systems (ICECS 2003), 14-17 Dec., Sharjah, United Arab Emirates, Proc. Vol. II, pp. 830-833.
185. S. Kahrobaei, V. Salehipour, **M. Tarafdar Haque**, "Presentation of a Control Strategy for Series Voltage Compensators Using Instantaneous Positive Sequence Coordinates", 1'st Flexible AC Transmission Systems (FACTS) Seminar, University of Khajeh Nasir, Electrical Faculty, 9 Oct., pp. 91-97 (in Persian).
186. M. Tarafdar Haque, V. Salehi pour, S. Kahrobaee, "A Multi-Level Current Source Inverter Structure Usable as Active Filter", A New Multi-Level Series Converter, 48'th International Wissenschaftliches Conf, Technical Univ. of Ilmenau, Germany, 22.-25. September 2003, Abstract pp. 559-560.
187. M. Tarafdar Haque, V. Salehi pour, S. Kahrobaee, "A New Multi-Level Series Converter", 48'th International Wissenschaftliches Conf, Technical University of Ilmenau, Germany, 22.-25. September 2003, Abstract pp. 626-626.
188. M. Tarafdar Haque, R. Barati, S. Kateb, "A Gap-Less Ferro-Resonance Stabilizer", 48'th International Wissenschaftliches Conf, Technical University of Ilmenau, Germany, 22.-25. September 2003, Abstract pp. 561-562.
189. S. H. Hosseini, M. Tarafdar Hagh, H. Veladi, M. Bahrami, "Simulation, Designing and Making a Static VAR Components based on Instantaneous Reactive Power Theory", 11'th ICEE'2003, May 6-8, 2003, Shiraz, Iran, Vol. 4, pp. 55-62 (in Persian)
190. M. Tarafdar Haque, "Single-phase pq Theory for Active Filters", 2002, IEEE TENCON'02, Oct. 28-31, Beijing, China.
191. M. Tarafdar Haque, T. Ise, S. H. Hosseini, "A Novel Control Strategy for Unified Power quality Conditioner (UPQC)", 2002 IEEE 33<sup>rd</sup> Annual IEEE Power Electronics Specialists Conference (PESC'02), 23-27 June. 2002, Cairns, Australia, Vol. 1, pp. 94-98.
192. M. Tarafdar Hagh, "Single-Phase PQ Theory", 2002 IEEE 33<sup>rd</sup> Annual IEEE Power Electronics Specialists Conference (PESC'02), 23-27 June. 2002, Cairns, Australia, Vol. 4, pp. 1815-1819.
193. S. H. Hosseini, A. Ajami, **M. Tarafdar Haque**, "Electric Energy Converters and Their Effect on Power Quality problems", Second Intl. Conf. on Energy Research & Development (ICERD-2), April 5-7, 2002, Kuwait, State of Kuwait, pp. 529-538
194. **M. Tarafdar Haque**, S. H. Hosseini, "Air Pollution and its Relation with Electric Industry", Second Intl. Conf. on Energy Research & Development (ICERD-2), April 5-7, 2002, Kuwait, State of Kuwait, pp. 353-359.
195. S. Shahmohammadi, K. Zare, **M. Tarafdar Haque**, S. H. Hosseini, "A New Method for Balancing and Reactive Power Compensation of Loads in Electrical Distribution System", 10'th Iranian Conference. on Electrical Engineering (ICEE), Tabriz University, Tabriz, IRAN, 13-17 May 2002, Vol. 5, pp. 231-238 (in Persian).
196. M. Tarafdar Haque, T. Ise, "Implementation of Single-phase pq Theory", Power Conversion Conference-Osaka 2002 (PCC-Osaka), April 2-5, pp.761-765.
197. M. Tarafdar Haque, "A Control strategy for Static VAR Compensation based on Single-Phase pq Theory", Intl. Conf. on Power Quality-Assessment of Impact, Nov. 6-7, 2001, New-Delhi, India, pp. IV-15 – IV-18.
198. M. Tarafdar Haque, S. H. Hosseini, "A Control Strategy for Unified Power Quality Conditioner (UPQC) Using Instantaneous Symmetrical Components Theory", Second Intl. Conf. on Electrical and Electronics Engineering (ELECO' 2001), 7-11, Nov. 2001, Bursa-Turkey, pp. 152-156.
199. M. Tarafdar Haque, S. H. Hosseini, T. Ise, "A Control Strategy for Parallel Active Filters Using extended p-q Theory and Quasi-instantaneous Positive Sequence Extraction Method", 2001 IEEE International Symposium on Industrial Electronics - ISIE' 2001, June 12-16, Pusan- Korea, Vol.1, pp.348-353.
200. M. Tarafdar Haque, T. Ise, S. H. Hosseini, "A Novel Control Strategy for Active Filters Usable in Harmonic Polluted and/or Imbalanced Utility Voltage Case of 3-Phase 4-Wire Distribution Systems", ICHQP, Florida, USA, Oct. 1-4 2000, Vol. I, pp. 239-244.
201. M. B. B. Sharifian, **M. Tarafdar Haque**, H. Javidnia, S. H. Hosseini, M. Haghifam "Voltage Stability of Power System Considering Thevenin Equivalent Circuit of Load Bus", 8'th ICEE' 2000, Vol. 2, pp. 506-513 (in Persian).
202. S. H. Hosseini, **M. Tarafdar Haque**, "A Parallel Loaded DC/DC Resonant Converter with a New Power and Control Circuit", ICECS' 2000, Leobnan, Dec. 17-19, 2000, Vol. II, pp. 915-918.
203. S. H. Hosseini, **M. Tarafdar Haque**, S. Khammohammadi, "Neural Network Based Programmed Pulse Width Modulation (PPWM) Usable on Voltage Source Inverters (VSIs)", ICECS' 2000, Leobnan, Dec. 17-19, 2000, Vol. II, pp. 725-728.
204. M. Salamzadeh, **M. Tarafdar Haque**, S. H. Hosseini,"Transfer Function Concept of VSI and its Utilization in Simulation of a SVC and a Parallel Active Filter", ELECO' 99, Bursa-Turkey, 1-5 Dec. 1999, pp. 146-149.
205. M. Tarafdar Haque, S. H. Hosseini,"A High-Quality Multi-Level VSI Suitable for High Power/High Voltage Applications", First Intl. Conf. on Electrical and Electronics Engineering (ELECO'99), Bursa-Turkey, 1-5 Dec. 1999, pp.126-130.
206. M. Tarafdar Haque, S. H. Hosseini, M. Yari, "A New Generalized Direct Frequency Converter," 7'th ICEE, Iran Telecommunication Research Center, May 1999, Vol. 2, pp. 456-463 (in Persian).

207. A. Aghagolzadeh, M. B. B. Sharifian, **M. Tarafdar Haque**, "Real Time Estimation of Induction Motors Parameters," ICEE, 1999, Khajeh Nasir University, IRAN, Vol. V, pp. 85-90 (in Persian).
208. S. H. Hosseini, **M. Tarafdar Haque**, "A New Control Scheme for Parallel Loaded DC/DC Resonant Converter using Only One Switching Device", IEEE CCECE'98, May 1998, Waterloo, Canada, pp. 177-180.
209. A. Aghagolzadeh, **M. Tarafdar Haque**, M. B. B. Sharifian, "The Presentation of a New Pulse Width Modulation Method Usable in Active Filters and Three-Phase Inverters," ICEE, May 1998, Khajeh Nasir University, IRAN, Vol. V, pp. 159-164 (in Persian).
210. M. Tarafdar Haque, S. H. Hosseini, "The Presentation of a New Power Circuit and Modulation Method for Three-Phase Inverters", ICPE' 95, Seoul, Korea, pp. 466-470.
211. S. H. Hosseini, **M. Tarafdar Haque** "Designing of Transmission Lines in Cold and Mountain Regions", The First Seminar of Efficiency of Electrical Equipments in Cold and Mountain Regions, Ardabil, IRAN, July 1995 (in Persian).
212. S. H. Hosseini, **M. Tarafdar Haque** "The Presentation of a New Inverter Using Pulse Amplitude Modulation (PAM)", ICEE, 1994, Tarbiat Modares University, IRAN, pp. 149-154 (in Persian).
213. S. H. Hosseini, **M. Tarafdar Haque** "The Presentation of a New Active Filter with Amplitude Modulation of Difference Wave", PEMC'94, Warsaw, Poland, pp. 231-235.
214. S. H. Hosseini, **M. Tarafdar Haque**, G. Khandar, "Analysis of a New Pulse Width Modulated Series Resonant Converter with High Efficiency", ISIC-93, Singapore, pp. 161-165.
215. J. Faiz, **M. Tarafdar Haque**, "Minimization of Starting Time and Improvement of Performance of a Capacitor-Run Single Phase Induction Motor", ELMA-93, Varna, Bulgaria, pp. 147-152.
216. S. H. Hosseini, **M. Tarafdar Haque**, "Power Systems Compensation by Inverters," ICEE, 1993, Amir Kabir University, IRAN, pp. 149-154 (in Persian).

## کارگاه ها

Fault current limiters application in wind turbines, University of Wollongong, Australia

LV/MV Aerial Bundled Cables, 43 teaching courses, each two days, presented in different 2 electrical distribution companies around the country

Design and installation of MV covered conductors in distribution lines, 32 teaching courses, 4 each two days, presented in different electrical distribution companies around the country

## عضویت در هیات تحریریه مجلات علمی و پژوهشی

Review board of IEEE and IET Transactions, Elsevier journals

to date Review board conference and/or review panel member of Iranian conference on electrical engineering (ICEE

International Power System Conference (PSC), Electrical Power Distribution networks Conference , ((EPDC

(Power Electronics, Drive Systems and Technologies Conference (PEDSTC

(to date Tabriz university Journal of Electrical Engineering (TJEE

Scientific evaluation for pre-submission of Ph.D. thesis in the area of power engineering, UOT, Iran

Referee of Ph.D. and MSc thesis in the area of power engineering, University of Tabriz, Iran

## عضویت در انجمن های علمی

Senior member of IEEE

Engineers Australia as a professional engineer

Australian power quality and reliability center  
((<http://www.elec.uow.edu.au/apqrc/people?p=haghmt&s=ars>

Institute of electrical and electronics engineers, IEEE  
(Editorial board of Tabriz university Journal of electrical engineering (TJEE

IEEE Industrial Application Society

IEEE Power and Energy Society

Secretary of national CIRED conference committee, Iran

Iranian solar energy scientific society

Iranian wind energy association

(Engineers Iran, Grade one (highest level