



**Name & Surname:** Prof. Seyed Ghodratollah Seifossadat

**Date of Birth:** 1963

 **Address, Suburb, State, Postcode:** Department of Electrical Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran, Postcode: 61357-83151



 **Phone/Mobile Number:** +989166182789

**E-mail address:** seyfosadat@yahoo.com    gh.seifossadat@scu.ac.ir

### **PROFESSIONAL PROFILE:**

Professor, Faculty of Electrical Engineering, Shahid Chamran University of Ahvaz

Homepage: <https://scu.ac.ir/~seyfosadat>

### **EDUCATION BACKGROUND:**

Ph.D.: Electrical Engineering (Power Systems) (2006), Iran University of Science and Technology (IUST), Tehran, Iran

Thesis title:

Modeling 12-Pulse HVDC Systems in the Frequency Domain

M.Sc.: Electrical Engineering (Power Systems) (1991), Ferdowsi University of Mashhad (FUM), Mashhad, Iran

Thesis title:

Digital Distance Relay in Transmission Lines

B.Sc.: Electrical Engineering (Power Systems) (1988), Iran University of Science and Technology (IUST), Tehran, Iran

Thesis title:

Study and Analysis of Various Types of Electrical Transducers

## **TEACHING AND TRAINING EXPERIENCE:**

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Ph.D. program: Digital Protection, Power Electronics II, Transients in Power Systems

M.Sc. program: Generalized Theory of Electrical Machinery, Power Electronics I, Power Quality

B.Sc. program: Electrical Circuits I&II, Electrical Machines I, II, III, Special Machines, Electromagnetics, Relay and Protection, Industrial Electronics, Electricity Physics.

## **INTERESTS AND RESEACH FIELDS:**

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Protection of Power Systems, Power Electronics, Power Quality, Electrical Machines

## **RESEARCH ACTIVITIES:**

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### **PUBLICATIONS:**

#### **Journal Papers:**

1. Abasi, M., Joorabian, M., Saffarian, A. and Seifossadat, S.Gh. (2021). A Comprehensive Review of Various Fault Location Methods for Transmission Lines Compensated by FACTS devices and Series Capacitors. *Journal of Operation and Automation in Power Engineering*, 9(3), pp.213-225.
2. Abasi, M., Saffarian, A., Joorabian, M. and Seifossadat S.Gh. (2021). Location of Double-Circuit Grounded Cross-Country Faults in GUPFC-Compensated Transmission Lines based on Current and Voltage Phasors Analysis. *Electric Power Systems Research*, Vol.195, pp.107-124.
3. 3.Abasi, M., Joorabian, M., Saffarian, A. and Seifossadat, S.Gh. (2021). Inter-Circuit Fault Location Algorithm in Generalized Unified Power Flow Controller-Compensated Double-Circuit Transmission Lines based on Synchronous Current and Voltage Phasors of Line Terminals. *IET Generation, Transmission & Distribution*, 15(12), pp.1841-1857.
4. Noori, M., Seifossadat, S Gh. and Saffarian, A. (2021). A New DC Fault Detector Scheme for Multi-terminal HVDC Transmission lines. *International Journal of Industrial Electronics Control and Optimization*.
5. Abasi, M., Saffarian, A., Joorabian, M. and Seifossadat S.Gh. (2021). Fault Classification and Fault Area Detection in GUPFC-Compensated Double-Circuit Transmission Lines based on the Analysis of Active and Reactive Powers Measured by PMUs. *Measurement*, Vol.169, pp. 108499.
6. 11.Ghafari Gusheh, A., Razza, M., Seifossadat, S.Gh. and Mortazavi, S.S. (2012). Analysis of Active SFCL by Design of Control Strategies for Fault Detection and PWM Converter and Protection Coordination with Distance Relay. *Majlesi Journal of Electrical Engineering*, 6(4), pp. 39-46.
7. Abasi, M., Saffarian, A., Joorabian, M. and Seifossadat S.Gh. (2020). Fault Location in Double-Circuit Transmission Lines Compensated by Generalized Unified Power Flow Controller (GUPFC) Based on Synchronous Current and Voltage Phasors. *IEEE Systems Journal*, 15(2), pp.2190-2200.

8. Abasi, M., Joorabian, M., Saffarian, A. and Seifossadat, S.Gh. (2020). Accurate Simulation and Modeling of the Control System and the Power Electronics of a 72-Pulse VSC-based Generalized Unified Power Flow Controller (GUPFC). *Electrical Engineering*, 102(3), pp. 1795-1819.
9. Abasi, M., Joorabian, M., Saffarian, A. and Seifossadat, S.Gh. (2020). A Novel Complete Dynamic and Static Model of 48-Pulse VSC-based GUPFC for Parallel Transmission Lines. *International Journal of Industrial Electronics Control and Optimization*, 3(4), pp. 447-457.
10. Barati, J., Seifossadat, S.Gh. and Joorabian, M. (2020). Coordination of Adaptive Distance Protection in Transmission and Wind Farm Collector Lines Under Resistive Fault Conditions. *International Journal of Industrial Electronics Control and Optimization*, 3(3), pp.223-234.
11. Behvandi, A., Seifossadat, S.Gh. and Saffarian, A. (2020). A New Method for Discrimination of Internal Fault from Other Transient States in Power Transformer using Clarke's Transform and Modified Hyperbolic S-Transform. *Electric Power Systems Research*, Vol.178, pp. 106023.
12. Hajary, A., Seifossadat, S.Gh., Kianinezhad, R., Saffarian, A. and Mortazavi S.S. (2019). An Adaptive PI Control Design for Multi-Phase Machines in Healthy and Faulty Operations. *COMPEL-The international journal for computation and mathematics in electrical and electronic engineering*, Vol. 38 No. 6, pp. 1986-2000.
13. Mohammadzadeh, S., Seifossadat, S.Gh. and Joorabian, M. (2019). Providing a New Method for Protecting the Loss of Excitation of Generator in the Presence of Phase-Shifting Transformer. *International Transactions on Electrical Energy Systems*, 29(6), pp. e12023.
14. Hajary, A., Kianinezhad, R., Seifossadat, S.Gh., Mortazavi, SS. and Saffarian, A. (2019). Detection and localization of open-phase fault in three-phase induction motor drives using second order rotational park transformation. *IEEE Transactions on Power Electronics*, 34(11), pp. 11241-11252.
15. Noshad, B. (2019). A New Algorithm for Three-Phase Power Transformer Differential Protection Considering Effect of Ultra-Saturation Phenomenon Based on Discrete Wavelet Transform. *International Journal of Emerging Electric Power Systems*, 20(1), pp.
16. Alavi, S.A., Ilea, V., Saffarian, A., Bovo, C., Berizzi, A. and Seifossadat, S.Gh. (2019). Feasible Islanding Operation of Electric Networks with Large Penetration of Renewable Energy Sources Considering Security Constraints. *Energies*, 12(3), pp. 537.
17. Heidari, M., Kavsarian, A. and Seifossadat, S.Gh. (2018). Power quality improvement with cascaded multilevel converter based statcom. *IIUM Engineering Journal*, 19(1), pp. 91-103.
18. Abasi, M., Seifossadat, S.Gh., Razaz, M. and Moosapour S.S. (2018). Determining the Contribution of Different Effective Factors to Individual Voltage Unbalance Emission in n-Bus Radial Power Systems. *International Journal of Electrical Power & Energy Systems*, Vol.94, pp. 393-404.
19. Hasheminejad, S., Seifossadat, S.Gh. and Joorabian, M. (2017). New Travelling-Wave-based Protection Algorithm for Parallel Transmission Lines During Inter-Circuit Faults. *IET Generation, Transmission & Distribution*, 11(16), pp. 3984-3991.
20. Goharshenasan Khorasani, P., Joorabian, M. and Seifossadat, S.Gh. (2017). Smart grid realization with introducing unified power quality conditioner integrated with DC micro grid. *Electric Power Systems Research*, Vo.151, pp. 68-85.
21. Nabipour, M., Razaz, M., Seifossadat, S.Gh. and Mortazavi, S.S. (2017). A New MPPT Scheme based on a Novel Fuzzy Approach. *Renewable and Sustainable Energy Reviews*, Vol.74, pp. 1147-1169.

22. Nabipour, M., Razaz, M., Seifossadat, S.Gh. and Mortazavi, S.S. (2016). A Novel Adaptive Fuzzy Membership Function Tuning Algorithm for Robust Control of a PV-based Dynamic Voltage Restorer (DVR). *Engineering Applications of Artificial Intelligence*, Vol.53, pp. 155-175.
23. Hasheminejad, S., Seifossadat, S.Gh., Razaz, M. and Joorabian, M. (2016). Traveling-wave-based protection of parallel transmission lines using Teager energy operator and fuzzy systems. *IET Generation, Transmission & Distribution*, 10(4), pp.1067=1074.
24. Hasheminejad, S., Seifossadat, S.Gh., Razaz, M. and Joorabian, M. (2016). Ultra-High-Speed Protection of Transmission Lines using Traveling Wave Theory. *Electric Power Systems Research*, Vol.132, pp. 94-103.
25. Abasi, M., Razaz, M., Seifossadat, S.Gh. and Moosapour, S. (2015). Presenting a New Formulation to Analyze and Determine Unbalance Voltage Produced at the Place of Load Resulting from Network and Loads Unbalance and Asymmetry of Transmission Lines in Radial Power Systems. *Majlesi Journal of Energy Management*, 4(3), pp.1-7.
26. Heidari, M., Seifossadat, S.Gh. and Razaz, M. (2015). An intelligence-based islanding detection method using DWT and ANN. *Turkish Journal of Electrical Engineering & Computer Sciences*, 23(2), pp. 381-394.
27. Razaz, M., Seifossadat, S.Gh., Razaz, M. and Joorabian, M. (2015). A Digital Ground Distance Relaying Algorithm to Reduce the Effect of Fault Resistance during Single Phase to Ground and Simultaneous Faults. *Majlesi Journal of Energy Management*, 9(1), pp. 85-92.
28. Yunesi, M. and Seifossadat, S.Gh. (2015). A Systematic Arranging Method for Reclose-Fuse Coordination in Distribution System in Appearance of DG. *Journal of Scientific Research and Development*, 2(4), pp.74-77.
29. Nejadmuri, M., Seifossadat, S. Gh and Moosavi, M. (2015). A Simplified SVM Method for Multilevel Cascade H-Bridge Inverter with Reducing Computation Time for Photovoltaic Application. *Fen Bilimleri Dergisi (CFD)*, 36(4).
30. Ghafari, A., Razaz, M., Seifossadat, S.Gh. and Hosseinzadeh Soreshjani, M. (2014). Protective coordination of main and backup overcurrent relays with different operating modes of active super-conducting current controller. *Maejo International Journal of Science and Technology*, 8(3), pp.319-333.
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33. Heidari, M., Seifossadat, S.Gh. and Razaz, M. (2013). Application of decision tree and discrete wavelet transform for an optimized intelligent-based islanding detection method in distributed systems with distributed generations. *Renewable and sustainable energy reviews*, Vol.27, pp.525-532.
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35. Keramatzadeh A., Kosarian, A., and Seifossadat, S.Gh. (2013). Reduction of Leakage Current in Grid Connected Three-Phase PV Inverters. *Journal of Basic and Applied Scientific Research*, 3(7), 439-446.
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37. Yazdanpanah Qarae, P., Seifossadat, S.Gh., Razaz, M. and Joorabian, M. (2012). A New Switching Method, Inverted SPWM for THD, TDD and Interharmonics Reduction in VSC-HVDC. *international review of electrical engineering -IREE*, 7(6), pp. 5970-5976.
38. Kianinezhad, R., Mirjani, P. and Seifossadat, S.Gh. (2012). Motor Ballbearing Outer Race Fault Detection Using Wavelet Packet Decomposition, an Experimental and Simulation Study. *Engineering Journal*, 19(1), pp. 91-103. -IREE, 7(6), pp. 6116-6122.
39. Noshad, B., Razaz, M. and Seifossadat, S.Gh. (2012). Discrete Fourier Transform (DFT) Algorithm, Ultra-Saturation Phenomenon, Unloaded Transformer Energizing with Additional Line/Load from the Supplying Side, Transformer Differential Protection. *Computational Intelligence in Electrical Engineering*, 3(3), pp. 41-54.
40. Heidari Orejloo, M. Seifossadat, S.Gh. and Gharibreza, E. (2011). Design and Simulation of Intelligent based Relay for Power Islanding Detection. *Computational Intelligence in Electrical Engineering*, 2(3), pp. 67-78.
41. Gharibreza, E., Seifossadat, S.Gh., Joorabian, M. and Heidari Orejloo, M. (2011). Inter Turn Sector Winding Fault Estimation of Introduction Generator by Wavelet Analysis. *The International Review on Modelling and Simulation*, 4(5), pp.2122-2129.
42. Seifossadat, S.Gh., Heidari Orejloo, M., Kianinezhad, R. and Mirabbasi, D. (2011). Optimal Placement of FACTS Devices Considering Power System Loadability and Cost of Installation. *International Review of Automatic Control*, 4(5), pp.733-739.
43. Shaygan, M., Seifossadat, S.Gh. and Razaz, M. (2011). Study the Effects of STATCOM on the Static Voltage Stability Improvement and Reduction of Active and Reactive Losses. *International Review of Electrical Engineering*, 6(4), pp. 1862-1869.
44. Gharibreza, E., Seifossadat, S.Gh., Joorabian, M. and Heidari Orejloo, M. (2011). Inter Turn Stator Winding Fault Estimation of Induction Generator by Wavelet Analysis.
45. Heidari, M., Kavsarian, A. and Seifossadat, S. Gh. (2011). Detailed Analysis of Cascaded Multilevel Converter Based STATCOM. *International Review on Modelling and Simulations*, 4(2), pp.507-516.
46. Heidari, M., Kianinezhad, R., Seifossadat, S.Gh., Monadi, M. and Mirabbasi, D. (2011). Effects of Distribution Network Unbalance Voltage Types with Identical Unbalance Factor on the Induction Motors Simulation and Experimental. *International Review of Electrical Engineering*, 6(1).
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48. Heidari, M., Mirabbasi, D., Seifossadat, S. Gh. and Kianinezhad, R. (2010). Comparison and Detection of Abnormal Conditions in Induction Motors. *International Review on Modelling and Simulations*, 3(5), pp.803-809.
49. Moosaviyan, I., Seifossadat, S.Gh. and Kianinezhad, R. (2009). Fault Location in High Voltage Transmission Line with Current Traveling Wave. *International Review on Modelling and Simulations*, 2(4), pp. 389-394.

50. Seifossadat, S. Gh., Saniei, M. and Raeszadeh, A. (2009). Reactive Power Pricing in Competitive Electric Markets using a Sequential Linear Programming with Considered Investment Cost of Capacitor Banks. *International journal of innovations in energy systems and power*, 4(1), pp. 29-35.
51. Moghaddasian, M., Nategh, Sh., Kianinezhad, R. and Seifossadat, S.Gh. (2008). A Direct Torque Control (DTC) Method for Dual Three Phase Induction Motors using a Fuzzy Inference System. *2008 International Symposium on Power Electronics, Electrical Drives, Automation and Motion*, pp. 1088-1092.
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53. Seifossadat, S.Gh., Kianinezhad, R., Ghasemi, A. and Monadi, M. (2008). Quality Improvement of Shunt Active Power Filter, using Optimized Tuned Harmonic Passive Filters. *2008 International Symposium on Power Electronics, Electrical Drives, Automation and Motion*, pp. 1388-1393.
54. Seifossadat, S.Gh., Shoulaie, A. and Monadi, M. (2008). A Linearized Small-Signal Model of an HVDC Converter with Filter Circuits in Mixed Time-Frequency Domain. *IEEE transactions on power delivery*, 23(2), pp. 1025-1032.
55. Moghaddasian, P., Nategh, Sh., Kianinezhad, R. and Seifossadat, S.Gh. (2008). A Direct Torque Control (DTC) Method for Dual Three Phase Induction Motor Using Fuzzy Inference System. *International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM)*, pp. 1082-1086.
56. Seifossadat, S.Gh., Razzaz, M., Moghaddasian, M. and Monadi, M. (2007). Harmonic Estimation in Power Systems using Adaptive Perceptron based on a Genetic Algorithm. *WSEAS Transactions on Power Systems*, 11(2), pp. 239-244.
57. Seifossadat, S.Gh. and Shoulaie, A. (2006). A Linearised Small-Signal Model of an HVDC Converter for Harmonic Calculation. *Electric power systems research*, 76(6-7), pp. 567-581.
58. Noshah, B., Razzaz, M. and Seifossadat S.Gh. (2011). Determination of an Accurate Current Transformer Model for the Analysis of Electromagnetic Transient During Electrical Faults. *Journal of Electrical Eng*, 41(2), pp. 75-85.
59. Nabipour, M., Razzaz, M., Seifossadat S.Gh. and Mortazavi, S.S. (2016). Injected Voltage Control of the DVR using a New Hybrid Adaptive Controller in Compensating Network Faults. *Tabriz Journal of Electrical Eng*, 46(2), pp. 308-321.
60. Ghafari, A., Razaz, M., Seifossadat S.Gh. and Hosseinzadeh Soreshjani, M. (2014). Protective Coordination of Main and Backup Overcurrent Relays with Different Operating Modes of Active Superconducting Current Controller. *Maejo International Journal of Science and Technology*, 8(03), pp. 319-333.
61. Shoulaie, A. and Seifossadat S.Gh. (2006). A Linearized Small- Signal Model of an HVDC Converter – Part II. *Journal of Faculty of Eng*, 33(1), pp. 53-60.
62. 79. Shoulaie, A. and Seifossadat S.Gh. (2006). A Linearized Small- Signal Model of an HVDC Converter – Part I. *Journal of Faculty of Eng*, 33(1), pp. 53-60.
63. Hondi, A., Seifossadat, S.Gh, Saffarian, A. (2020). A Novel Method Based on Modified Hyperbolic S-Transform to Discriminate Internal and Abnormal Faults in Power Transformers, *Journal of Electrical Engineering*, 50(3), pp. 1085-1096. **(Persian)**

64. Hamdzade, S., Seifossadat, S.Gh., Joorabian, M. (2020). Excitation Loss Protection of Synchronous Generators based on Decision Tree in the Presence of UPFC, *Journal of Electrical Engineering*, 50(3), pp. 1383-1394. **(Persian)**
65. Khalilifar, M., Joorabian, M., Seifossadat, S.Gh., Shahrtash, S.M. (2018). Engineering in Adopting Computational Tools to Facilitate Voltage Instability Detection, *Modeling in Engineering*, 16(55), pp. 401-410. **(Persian)**
66. Hejazi, A., Kiani-Nejad, R., Seifossadat, S.Gh., Saffarian, A., Mortazavi, S.S. (2017). Robust Control of Symmetric Six-Phase Induction Machine under Phase Loss Fault Based on the ADRC Method, *Journal of Control*, 11(1), pp. 51-60. **(Persian)**
67. Nabipour, M., Razzaz, M., Seifossadat, S.Gh., Mortazavi, S.S. (2016). Injection Voltage Control of DVR Using a Novel Dual Adaptive Controller for Compensation of Various Network Faults, *Journal of Electrical Engineering*, 46(2), pp. 307-321. **(Persian)**
68. Hashemi-Nejad, S., Seifossadat, S.Gh., Razzaz, M., Joorabian, M. (2015). Fault Classification and Identification of Faulty Phases in Power Systems Using Traveling Wave Theory and Fuzzy Systems, *Journal of Electrical Engineering*, 45(4), pp. 223-233. **(Persian)**
69. Heidary-Orjlou, M., Seifossadat, S.Gh., Razzaz, M. (2013), A Smart Islanding Detection Method in a Distribution Network with DGs Based on Wavelet Transform and KNN, *Journal of Electrical Engineering*, 43(1), pp. 15-26. **(Persian)**
70. Noushad, B., Razzaz, M., Seifossadat, S.Gh. (2013). Determining a New Method to Study the Supersaturation Phenomenon During Energizing Loaded Three-phase Power Transformer and Its Effect on Differential Protection, *Quarterly Electrical and Computer Engineering of Iran*, 11(2), pp. 83-90. **(Persian)**
71. Heidary-Orjlou, M., Seifossadat, S.Gh., Razzaz, M. (2013). Detection of Electrical Islands in Distribution Networks with DGs Using Discrete Wavelet Transform and Artificial Neural Network, *Quarterly Electrical and Computer Engineering of Iran*, 11(1), pp.19-27. **(Persian)**
72. Noushad, B., Razzaz, M., Seifossadat, S.Gh. (2012). Determining a New Model Based on Discrete Fourier Transform Algorithm to Study Supersaturation Phenomenon during Energizing Unloaded Power Transformer with Added Impedance or Load on the Source Side and Its Impact on Differential Protection, *Computational Intelligence in Electrical Engineering*, 3(3), pp. 41-54. **(Persian)**
73. Noushad, B., Razzaz, M., Seifossadat, S.Gh. (2011). Determining an Accurate Model of a Current Transformer to Analyze Transient Electromagnetics during Electrical Faults, *Journal of Electrical Engineering*, 41(2), pp.75-86. **(Persian)**
74. Heidary-Orjlou, M., Seifossadat, S.Gh., Gharib-Reza, E. (2011). Design and Simulation of a Smart Relay for Detection of Electrical Islanding, *Computational Intelligence in Electrical Engineering*, 2(3), pp. 67-78. **(Persian)**

#### CONFERENCE PRESENTATIONS:

1. Kianinezhad, R., Seifossadat, S.Gh., Heidari, M. and Monadi, M. (2009). Effects of Distribution Network Unbalance Voltage Types in Respect to Identical Unbalance Factor on the Induction Motors. 2009 International Conference on Electrical and Electronics Engineering-ELECO 2009, pp. I-193-I-196.
2. Mirabbasi, D., Seifossadat, S.Gh. and Heidari, M. (2009). Effect of Unbalanced Voltage on Operation of Induction Motors and its Detection. 2009 International Conference on Electrical and Electronics Engineering-ELECO 2009, pp. I-189-I-192.

3. Heidari, M., Mirabbasi, D. and Seifossadat, S.Gh. (2009). Comparison and Detection of Abnormal Conditions in Induction Motors. 2009 International Conference on Electrical and Electronics Engineering-ELECO 2009, pp. I-382-I-386.
4. Jafarifar, M., Kianinezhad, R., Seifossadat, S.Gh. (2009). Sliding Mode Sensor Less Control of Symmetrical Six-Phase Induction Machines. 2009 International Conference on Electrical and Electronics Engineering-ELECO 2009, pp. I-169-I-173.
5. Deilamani, M., Kianinezhad, R., Seifossadat, S. Gh and Keramatzade, M. (2011). A New Insight into Six Phase Induction Machine Modeling Under Open Phase Fault Condition. International Aegean Conference on Electrical Machines and Power Electronics and Electromotion, Joint Conference, pp.201-204.
6. Mohammadzadeh, S., Seifossadat, S.Gh., and Ahmadzadeh, M. (2014). Power Quality Disturbance Data Compression Using Wavelets Transform. International Conference on Computer, Systems and Electronics Engineering, South Africa, Johannesburg, pp.78-82.
7. Nategh, Sh., Kianinezhad, R., Seifossadat, S.Gh., Pishahang, A. and Arjomand, A. (2009). A New Robust Model based Sensor Less Control for Six Phase Induction Machines. 2009 4th IEEE Conference on Industrial Electronics and Applications, pp. 1032-1037.
8. Jafarifar, M., Kianinezhad, R., Seifossadat, S. Gh, Mortazavi, S.S. (2009). Sliding Mode and Disturbance Observer: Two viable Schemes for Sensor Less Control of Induction Machines. 2009 4th IEEE Conference on Industrial Electronics and Applications, pp. 2329-2334.
9. Zamani, MA, Moghaddasian, M., Joorabian, M., Seifossadat, S.Gh. and Yazdani, A. (2008). C-type filter design based on power-factor correction for 12-pulse HVDC converters. 2008 34th Annual Conference of IEEE Industrial Electronics, pp.3039-3044.
10. Nategh, Sh., Ghasemi, A., Kianinezhad, R., Seifossadat, S.Gh. and Saneie, M. (2008). An Improved Fuzzy Model based Sensor Less Control for Six-Phase Induction Machines. 2008 3rd IEEE Conference on Industrial Electronics and Applications, pp. 1469-1474.
11. Seifossadat, S.Gh., Saniei, M. and Raeszadeh, A. (2007). Reactive power pricing in competitive electric markets using a methodology based on the theory of marginal costs with sequential linear programming. 2007 42nd International Universities Power Engineering Conference, pp. 83-88.
12. Ranjbar, Sh., Saffarian, A., Seifossadat, S.Gh. (2020). A Differential Protection Scheme for Double-circuit Transmission Lines based on Incremental Apparent Power. 1st Conference on Applied Research in Electrical Engineering, Shahid Chamran University of Ahwaz. **(Persian)**
13. Hashemi, F., Seifossadat, S.Gh., Saffarian, A. (2019). Detection of Excitation Loss in Synchronous Generators in the Presence of STATCOM using Analysis Method, 2019 5th National Conference on Electrical and Mechatronic Engineering of Iran. **(Persian)**
14. Seraj, A.R., Saffarian, A., Seifossadat, S.Gh. (2018). A Novel Differential Protection for HVDC Transmission Lines Based on Distributed Model of Distribution Line, 4th National Conference on Technology in Electrical and Computer Engineering, Tehran. **(Persian)**
15. Khoyeh, P., Saffarian, A., Seifossadat, S.Gh. (2017). Discrimination of Inrush Current and Internal Fault Current of Power Transformer in the Presence of Fault Current Limiter at the Zero Point of Transformer, 2017 2nd National Conference on Electrical and Computer Engineering, Tehran. **(Persian)**
16. Ebrahimi-Nejad, M., Mortazavi, S.S., Seifossadat, S.Gh. (2017). Demand-side Management in Systems with Energy Storage Using Game Theory in Smart Networks, 3rd National Conference



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17. Saljoughi, Gh., Saffarian, A., Seifossadat, S.Gh. (2017). Fault Location in Series-Compensated Double-circuit Transmission Lines Using Traveling Wave and Wavelet Transform, International Conference on Fundamental Research in Electrical Engineering, Tehran. **(Persian)**
18. Montafej, F., Seifossadat, S.Gh., Saffarian, A. (2016). Adaptive Distance Relay of High-Voltage Transmission Lines based on Voltage Drop Equation, 2nd National Conference on Novel Research in Electrical Engineering, Ahar, Iran. **(Persian)**
19. Heidary-zadeh, M., Seifossadat, S.Gh., Saffarian, A. (2016). Detection, Classification, and Location of Faults in Series-Compensated Double-circuit Transmission Lines Using the Distributed Parameter Line Model, 11th Conference on Protection and Automation in Power Systems (IPAPS 2017), Shiraz University. **(Persian)**
20. Kord-Zanganeh, H., Saffarian, A., Seifossadat, S.Gh. (2016). Coordinated Adaptive Scheme of Overcurrent Relay Protection in Distribution Networks with DGs Considering Network Reconfiguration, 3rd Conference on Recent Advances on Electrical and Computer Engineering, Tehran. **(Persian)**
21. Kalantari, A., Seifossadat, S.Gh., Mousapour, S.S. (2015). Protection based on Traveling Waves and Detection of Fault Point in Multi-terminal HVDC Lines with Star Connection Through Synchronous Measurement, 2nd Conference on Development in Civil, Architecture, Electrical and Mechanical Engineering, Gorgan, Iran. **(Persian)**
22. Kaabi-Falahieh, E., Seifossadat, S.Gh., Mortazavi, S. (2015). Fault Location in Hybrid Lines Using Wavelet Transform and Support Vector Machine, 2nd Conference on Development in Civil, Architecture, Electrical and Mechanical Engineering, Gorgan, Iran. **(Persian)**
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24. Abasi, M., Razzaz, M., Seifossadat, S.Gh., Mousapour, S.S. (2014). Investigation of Effect of Induction Motors on Control and Reduction of Voltage Imbalance in Radial Power Systems, 1st Conference on Development in Civil, Architecture, Electrical and Mechanical Engineering, Gorgan, Iran. **(Persian)**
25. Ansaripour, R., Seifossadat, S.Gh., Razzaz, M. (2015). Ultra-fast Protection of Parallel Transmission Lines Using Traveling Waves and Hybrid Wavelet Transform-Fuzzy, 2nd National Conference on Smart Systems in Electrical and Computer Engineering, Minoodasht, Iran. **(Persian)**
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31. Heidarian, T., Joorabian, M., Seifossadat, S.Gh. (2014). Analysis of Effect of EV Connection to Distribution Network, 19th Conference on Electricity Distribution Networks, Power Research Center, Tehran, Iran. **(Persian)**
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34. Heidarian, T., Joorabian, M., Seifossadat, S.Gh. (2013). The Effect of Harmonic Voltages on Capacitor Placement in Radial Distribution Network Using Cuckoo Optimization Algorithm, 2nd National Conference on Novel Ideas in Electrical Engineering, Islamic Azad University of Khurasgan, Iran. **(Persian)**
35. Khosravi, Z., Razzaz, M., Seifossadat, S.Gh. (2013). Analysis of Transient Stability of Small-Scale Synchronous Generator in Distribution Network and Presentation of a Method for It Against Transient Instability, 2nd National Conference on Novel Ideas in Electrical Engineering, Isfahan, Tehran. **(Persian)**
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39. Goharshensasan, P., Seifossadat, S.Gh. (2012). A Fast and Accurate Method for Compensating Saturation in Current Transformers, 7th Conference on Protection and Control of Power Systems, Tehran. **(Persian)**
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50. Gharibreza, E., Seifossadat, S.Gh., Joorabian, M., Mortazavi, S.S., Heiday -orjloo, M. (2010). Ring Fault Detection of Wind Generator Using Wavelet Theory, 2<sup>nd</sup> National Conference on Electrical Energy Conservation, Ahwaz. **(Persian)**
51. Gharibreza, E., Seifossadat, S.Gh., Joorabian, M., Mortazavi, S.S., Heiday -orjloo, M. (2010). Ring Fault Detection of Wind Generator Using Wavelet Transform and Neuro-fuzzy Method, 5<sup>th</sup> Conference on Protection and Control of Power Systems, Tehran, Iran. **(Persian)**
52. Ghaderi, A., Kianinejad, R., Seifossadat, S.Gh. (2009). Switching Loss Reduction of Voltage Source Inverter in Six-phase Induction Drives, 1<sup>st</sup> National Conference on Electrical Energy Conservation, Ahwaz. **(Persian)**
53. Rezaei, M., Kianinejad, R., Seifossadat, S.Gh. (2009). Comparative Analysis of Losses in three-phase Induction Drives based on Matrix and Inverter Transformers, 1<sup>st</sup> National Conference on Electrical Energy Conservation, Ahwaz. **(Persian)**

54. Rezaei, M., Kianinejad, R., Seifossadat, S.Gh., Heidari-orjlooo, M., Mondai, M., Mirabasi, D., Kamdmohammadieh, T. (2009). Economic Study of Effects of Unbalanced Voltage of Distribution Networks on Induction Motors, 1<sup>st</sup> National Conference on Electrical Energy Conservation, Ahwaz. (**Persian**)
55. Mousavian, I., Seifossadat, S.Gh., Kianinejad, R. (2008). Ultrafast Protection of High-Voltage Transmission Lines Using Wavelet Transform, 3<sup>rd</sup> Conference on Protection and Control of Power Systems, Tehran. (**Persian**)
56. Seifossadat, S.Gh., Saniei, M., Raeiszadeh, A. (2007). Reactive Power Pricing based on Marginal Cost Theory in Reconstructed Environments Using Lost Cost, 22<sup>nd</sup> International Power Systems Conference, PSC2007, Tehran. (**Persian**)
57. Joorabian, M., Seifossadat, S.Gh., Zamani, M.A. (2006). An Algorithm for Designing Two-Adjustment Filters based on Power Factor Correction for HVDC Converters, 22<sup>nd</sup> International Power Systems Conference, PSC2007, Tehran. (**Persian**)
58. Joorabian, M., Seifossadat, S.Gh., Zamani, M.A. (2005). Design of Harmonic Filters based on Power Factor Correction for HVDC Converters, 20<sup>th</sup> International Power Systems Conference, PSC2007, Tehran. (**Persian**)

#### **RESEARCH PROJECTS:**

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Study and Analysis of High Impedance Faults (HIF) in 33-kV Distribution Network of Ahwaz City: Implementation of a Prototype HIF Relay, Supported by Shahid Chamran University and Electricity Distribution Company of Ahwaz, 2014-2016

#### **PROFESSIONAL MEMBERSHIPS:**

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Dean of Engineering Department, Shahid Chamran University of Ahwaz, 2005-2007

Member of Board of Auditors, Shahid Chamran University of Ahwaz, 2015-2019

Director-in-Charge of Journal of Applied Research in Electrical Engineering, Since 2017

#### **LANGUAGES:**

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Persian - English