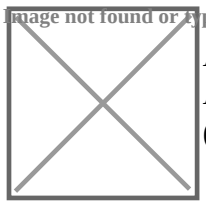
Dr. Mehdi SALAY NADERI



Assistant Professor
Amirkabir University of Technology(AUT)
(Tehran Polytechnic)

Biography:

Mehdi S. Naderi was born in Tabriz in 1976. He received the B.S. degree in electrical engineering from the Sharif University of Technology, Tehran, Iran, in 1998, and the M.S. and Ph.D. degrees in electrical engineering from the Amirkabir University of Technology (AUT), Tehran, in 2001 and 2007, respectively. He has been with the School of Electrical Engineering and Telecommunication, University of New South Wales, Sydney, Australia and he received a scholarship from Iran Power Generation, Transmission and Distribution Management Company (Tavanir) as a Ph.D. student from 2005-2006. He has been holding the Assistant Professor position at AUT since 2008. He is a member of IEEE and IAEEE and Engineers Australia. His teaching and research interests include Smart Grid, Microgrids, FACTS devices, HVDC Systems, Network Planning, Power System and Transformers Transients

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Educational Records

B.Sc.

Sharif University of Technology (SUT)

Power System Engineering

Thesis Title: Software Development for Iran Power System Network in Transmission and Distribution Level

M.Sc.

Amirkabir University of Technology (AUT), Tehran Polytechnic

Theis Title: Voltage stabilization of Large Electric Motor connected busbars during Motor Starting using Advanced Reactive Power Compensator (ASVC)

Ph.D.

Amirkabir University of Technology (AUT), Tehran Polytechnic

Thesis Title: Determination and Localization of Incipient Faults in Power Transformers during Impulse Test

Teaching

1 - Amirkabir University of Technology (AUT) Shahed University (Teharan) Islamic Azad University, Qazvin Branch Islamic Azad University, Shabestar Branch Gholpayeghan Nonprofit University
2 -

Publication

Journal Papers

NO	TITLE	YEAR
1	Mechanical Fault Types Detection in Transformer Windings Using Interpretation of Frequency Responses via Multi-layer Perceptron Reza Behkam, Arash Moradzadeh, H. Karami, M. Salay Naderi, B. Mohammadi Ivatloo, G. B. Gharehpetian, Stefan Tenbohlen Journal of Operation and Automation in Power Engineering, Vol. 11 , No. 1, Pps: 11-21, DOI: 10.22098/joape.2023.9259.1646	2022
2	A Comprehensive Study Approach for Evaluation of Resonance and Ferro-resonance in HV Substations A Case Study: Khuzestan Regional Electric Company Mohamad Ali Amini, M. S. Naderi, Ali Asghar Farokhi Rad, G. B. Gharehpetian International Journal of Research and Technology in Electrical Industry, Vol. 1, No. 1, Pps: 57-65	2022
3	Strategic Bidding in Distribution Network Electricity Market Focusing on Competition Modeling and Uncertaintie Mehrdad Mallaki, Mehdi S. Naderi, M. Abedi, Saeed D. Manshadi, G. B. Gharehpetian Journal of Modern Power Systems and Clean Energy, Vol. 9, No. 3, May 2021, Pages 561-572, DOI: 10.35833/MPCE.2019.000177 (JCR-ranked)	2021
4	An innovative deterministic algorithm for optimal placement of micro phasor measurement units in radial electricity distribution systems Aref Gholizadeh Manghutay, Mahdi Salay Naderi , Seyed Hamid Fathi COMPEL - The international journal for computation and mathematics in electrical and electronic engineering , electrical and electronic engineering: Volume 41 Issue 1, ISSN: 0332-1649	2021

5	Generalized regression neural network application for fault type detection in distribution transformer windings considering statistical indices Reza Behkam, Hossein Karami, Mahdi Salay Naderi, G. B. Gharehpetian COMPEL - The international journal for computation and mathematics in electrical and electronic engineering Volume 41 Issue 1	2021
6	A Novel Energy-Reliability Market Framework for Participation of Microgrids in Transactive Energy System Mehrdad Mallaki, Mehdi S. Naderi, M. Abedi, Saeed D. Manshadi, G. B. Gharehpetian International Journal of Electrical Power and Energy Systems, Vol. 122, Nov. 2020, 106193, DOI: 10.1016/j.ijepes.2020.106193 (JCR-ranked)	2020
7	Power Consumption Control of LEDs Considering Their Specific Characteristics and Ambient Temperature Variations Mohammad Javad Kalani, Mahdi Salay Naderi, Gevork Gharehpetian Computers & Electrical Engineering	2019
8	Optimal Overcurrent Relay Coordination in Interconnected Networks by Using Fuzzy-Based GA Method D. Solati Alkaran, M. R. Vatani, M. J. Sanjari, G. B. Gharehpetian, Mehdi S. Naderi IEEE Transactions on Smart Grid, DOI: 10.1109/TSG.2016.2626393 , Vol. PP, Issue: 99, Nov. 2016.	2016
9	Determination of Transformer Winding Radial Deformation Using UWB System and Hyperboloid Method H. Rahbarimagham, H. Karami, M. A. Hejazi, M. S. Naderi and G. B. Gharehpetian IEEE Sensors Journal, Vol. 15, No. 8, pp. 4194-4202 (ISI-ranked), Aug. 2015	2015
10	A Novel Power Swing Detection Scheme Independent of Rate of Change of Power System Parameters R. Jafari, N. Moaddabi, M. Eskandari-Nasab, G. B. Gharehpetian, Mehdi S. Naderi IEEE Transactions on Power Delivery, Vol. 29, No. 3, pp. 1192-1202 (ISI-ranked), June 2014	2014
11	Detection of Internal Incipient Faults in Transformers During Impulse Test Using Hyperbolic S-Transform A. Ashrafian, Mehdi S. Naderi, G.B. Gharehpetian International Transactions on Electrical Energy Systems, Vol. 23, Issue 5, July 2013, pp. 701–718 (ISI-ranked)	2013
12	Characterization of Internal Incipient Faults in Transformers during Impulse Test Using Index Based on S-Matrix Energy and Standard Deviation A. Ashrafian, Mehdi S. Naderi and G. B. Gharehpetian IET Journal of Electric Power Applications, Vol. 6, Issue 4, April 2012, p.225–232 (ISI-ranked)	2012
13	Simultaneous Detection of Radial Deformation Location and Axial Displacement Extent in a Transformer Winding Using Cross-correlation Technique and ANN M. Rahmatian, Mehdi S. Naderi, G. B. Gharehpetian and A. J. Ghanizadeh International Journal of Engineering Innovation and Research (IJEIR), Vol.1, Issue 5, Sep. 2012	2012
14	Overvieew on CHP-based DG Application in Iranian Industries with Rating Higher Than 1MW M. S. Naderi and G. B. Gharehpetian Journal of Sanat-e Bargh, No. 167, Spring 2012 (in Persian)	2012
15	Inter-phase power controller application to reduce transmission network short circuit level: System planning and engineering considerations J. Beiza, Mehdi S. Naderi, N. Taghizadegan, A. A. Dadjouan, J. Rabbani International Review on modeling and Simulation (IREMOS), Vol. 4, No. 1, pp. 235-240, February 2011	2011
16	CHP Optimized Selection Methodology for a Multi-Carrier Energy System A. Sheikhi, Mehdi S. Naderi, A.M. Ranjbar, G. B. Gharehpetian F. Safe INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING (IREE), Vol. 6, No. 4, pp. 1839-1846, July-Aug 2011	2011

17	Utilization of Wavelet Transform to Detect the Internal Incipient Faults of Power Transformers Mehdi S. Naderi, J. Beiza, N. Taghizadegan, A. A. Dadjouan, J. Rabbani INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING (IREE), Vol. 6, No. 4, pp. 1590-1597, July-Aug 2011	2011
18	LQG/LTR Controller Application to Damp Parallel AC/DC Power System Oscillations J. Beiza, Mehdi S. Naderi, N. Taghizadegan, A. A. Dadjouan, J. Rabbani International Review of Automatic Control (IREACO), Vol. 4, No. 4, pp. 568-573, ISSN: 1974-6059, July 2011	2011
19	Power System Modeling for Instantaneous Voltage State Estimation J. Beiza, Mehdi S. Naderi, N. Taghizadegan, A. A. Dadjouan, F. Kashefi International Review on Modelling and Simutation (IREMOS), Vol. 4, No. 4, pp. 1723-1734, ISSN: 1974-9821, August 2011	2011
20	Impacts of Reducing Short Circuit Current Level On Circuit Breakers Transient Studies J. Beiza, Mehdi S. Naderi, N. Taghizadegan, A. A. Dadjouan, J. Rabbani International Review on Modelling and Simutation (IREMOS), Vol. 4, No. 5, pp. 2502-2511, ISSN: 1974-9821, October 2011	2011
21	Detection and Localization of Transformer Internal Fault during Impulse Test J. Beiza, Mehdi S. Naderi, N. Taghizadegan, A. A. Dadjouan, J. Rabbani International Review on Modeling and Simulation (IREMOS), Vol. 4, No. 5, pp. 2129-2137, ISSN: 1974-9821, October 2011	2011
22	Damping of Low Frequency Oscillation in AC/DC Interconnected Power System Using LQG/LTR Controller Approach K. Rahmani, Mehdi S. Naderi, G.B. Gharehpetian, Mohammad S. Naderi and M. Karrari International Review of Electrical Engineering (IREE), Vol. 5, No. 6, Nov.-Dec. 2010 (ISI-ranked)	2010
23	Modeling and Detection of Transformer Internal Incipient Fault during Impulse Test M. S. Naderi, G. B. Gharehpetian, T.R. Blackburn and M. Abedi IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 15, No.1 Feb. 2008, pp. 284-291 (ISI-ranked)	2008
24	Application of Wavelet Analysis to Determination of Partial Discharge Location in Multiple-alpha transformer windings Mohammad S. Naderi, T.R. Blackburn, B.T. Phung, Mehdi S. Naderi, A. Nasiri Journal of Electric Power Systems Research of ELSEVIER publication, Vol. 78, Issue 2, Pp. 202-208, Feb. 2008. (In English)	2008
25	Pattern Classification of Internal Incipient Faults During Impulse Test Using Continuous Wavelet Analysis M. S. Naderi, G. B. Gharehpetian, T.R. Blackburn and M. Abedi Journal of Electrical Engineering, Springer Publication, Vol. 90, No.2, Dec. 2007 (ISI-ranked)	2007
26	Determination of Partial Discharge Propagation and Location in Transformer Windings Using a Hybrid Transformer Model Mohammad S. Naderi, T. R. Blackburn, Mehdi S. Naderi, R. Ghaemmaghami and A. Nasiri a Journal of Electric Power Components and System, Vol. 35, No. 6, Pages: 607-623, ISSN: 1532-5008, March 2007. (In English)	2007
27	A Hybrid Transformer Model for Determination of Partial Discharge Location in Transformer Winding Mohammad S. Naderi, M. Vakilian, T. R. Blackburn, B. T. Phung, Mehdi S. Naderi, and A. Nasiri IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 14, No. 2, Pages: 436-443, April 2007. (In English)	2007
28	Pattern Classification of Internal Incipient Faults during Impulse Tests using Continuous Wavelet Analysis Mehdi S. Naderi, G. B. Gharehpetian, T.R. Blackburn, M. Abedi Electrical Engineering journal, Springer-Verlag publication, Vol. 90, No. 2, Pp. 79-85, Dec. 2007. (In English)	2007

29	A New Technique for Extracting Partial Discharge Signals in Transformer Winding by Application of Wavelet Analysis Mohammad S. Naderi, M. Vakilian, T.R. Blackburn, B.T. Phung and Mehdi S. Naderi WSEAS Transaction on Power Systems, Issue 1, Volume 1, Pp. 77-83, ISSN 1790-5060, January 2006	2006
30	Investigation of Partial Discharge Propagation and Location in Multiple-alpha and Single-alpha Transformer Windings using Optimized Wavelet Analysis Mohammad S. Naderi, M. Vakilian, T. R. Blackburn, B. T. Phung and Mehdi S. Naderi Iranian Journal of Science & Technology, Transaction B, Engineering, Vol. 30, Issue No. B6. Shiraz University, Iran, Pp.655-666, January 2006. (In English)	2006
31	An Accurate Method for Estimation of Series and Parallel Resistances in Detailed Model of Transformer Winding Using Impulse Test Results M. S. Naderi, G. B. Gharehpetian, M. Abedi, K. Feser, Journal of Electrical Engineering, Springer Publication, Vol. 86, No. 5, 2004, pp. 255-260 (ISI-ranked)	2004
32	An Accurate Method for Calculation and Estimation of Series and Parallel Resistances of Transformer Detailed Model based on Impulse Test Results M. S. Naderi, G. B. Gharehpetian, M. Abedi Amirkabir Journal of Science and Technology, Vol. 14, No. 56-A, Fall 2003, pp. 1023-1032 (in Persian)	2003

Conference Papers

NO	TITLE	YEAR
1	A COMPREHENSIVE DEEP LEARNING METHOD for SHORT-TERM LOAD FORECASTING Mohammad Sayadlou - Mahdi Salay naderi - Mehrdad Abedi - Sajad Esmaeili - Mohammad Amini 30th ICEE2022 Virtulal Conference,	2022
2	Application of Artificial Neural Network on Diagnosing Location and Extent of Disk Space Variations in Transformer Windings Using Frequency Response Analysis Reza Behkam - Hossein Karami - Mahdi Salay Naderi - Gevork Gharehpetian 30th ICEE2022 Virtulal Conference,	2022
3	A Comprehensive Analysis Method to Improve the Operation of Transmission Networks from the Perspective of Resonance and Ferroresonance phenomena MohamadAli Amini - Mehdi SALAY NADERI - Ali Asghar Farrokhi Raad - Gevork B. Gharehpetian 30th ICEE2022 Virtulal Conference,	2022
4	Improvement of Frequency Control of Multi-Microgrids in Distribution Networks Shahriar Kamalinia, Saba Rafiei, M. Abedi, M. S. Naderi, G. B. Gharehpetian Smart Grid Conference, SGC2021, Tabriz, Iran, Dec. 7-9 2021	2021
5	Detection of Power Transformer Defects in Smart Environment Using Frequency Response Analysis and Artificial Neural Network Based on Data-Driven Systems Reza Behkam, Mehdi Salay Naderi, G. B. Gharehpetian Smart Grid Conference, SGC2021, Tabriz, Iran, Dec. 7-9 2021	2021
6	Optimum Management of Energy Exchanges in Microgrid Electricity Market Based on Blockchain Technology Nafise Bayrami Fard, Mehdi Salay Naderi, G. B. Gharehpetian Smart Grid Conference, SGC2021, Tabriz, Iran, Dec. 7-9 2021	2021
7	HBBO-based Intelligent Setting and Coordination of Directional Overcurrent Relays Considering Different Characteristics Reza Behkam, Behrooz Vahidi, Mahdi Zolfaghari, Mahdi Salay Naderi, G. B. Gharehpetian 28th Iranian Conference on Electrical Engineering, ICEE 2020, Tabriz, Iran, 4-6 August 2020	2020

8	Study on Different Indexes and Methods of Power Transformer Frequency Response Analysis and Interpretation in Order to Detect Windings Different Defects Reza Behkam, H. Karami Porzani, M. S. Naderi, G. B. Gharehpetian, 7th International Transformer Conference, ITC 2020, Tehran, Iran, 22 Oct., 2020 (in Persian)	2020
9	Modeling, Designing, and Fabrication of a Real-Time Wind Energy Conversion into Mechanical Torque of a Wind Turbine Simulators Based on Power Electronic Converters Amin Siahchehreh Badeli, F. Ashrafi, G. B. Gharehpetian, Mehdi. S. Naderi, Behzad Heydari Amirkhizi 34-th International Power System Conference, Dec. 9-11, 2019, Tehran, Iran	2019
10	Improvement of Sensitivity-Based Nonlinear Solver for Bidding Strategy Problem of Electricity Markets Mehrdad Mallaki, Mehdi Salay Naderi, G. B. Gharehpetian, Mehrdad Abedi 26th Iranian Conference on Electrical Engineering, ICEE 2018, Mashhad, Iran, 8-10 May, 2018	2018
11	Direct and Indirect Prediction of Net Demand in Power Systems Based on Syntactic Forecast Engine Mehdi Bagheri; Kazybek Suieubek; Oveis Abedinia; Mohammad Salay Naderi; Mehdi Salay Naderi 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Palermo, Italy	2018
12	Impacts of Renewable Energy Sources by Battery Forecasting on Smart Power Systems Mehdi Bagheri;Venera Nurmanova;Oveis Abedinia;Mohammad Salay Naderi;Noradin Ghadimi;Mehdi Salay Naderi 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)	2018
13	A Novel Wind Power Forecasting Based Feature Selection and Hybrid Forecast Engine Bundled with Honey Bee Mating Optimization Mehdi Bagheri; Venera Nurmanova; Oveis Abedinia; Mohammad Salay Naderi; Mehdi Salay Naderi; Noradin Ghadimi IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018, Palermo, Italy	2018
14	Multi-objective Shark Smell Optimization for Solving the Reactive Power Dispatch Problem Mehdi Bagheri;Adilet Sultanbek;Oveis Abedinia;Mohammad Salay Naderi;Mehdi Salay Naderi;Noradin Ghadimi IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018, Palermo, Italy	2018
15	Application and Design of New Controller Based on Fuzzy PID and FACTS Devices in Multi-machine Power System Mehdi Bagheri;Azamat Mukhatov;Oveis Abedinia;Mohammad Salay Naderi;Mehdi Salay Naderi;Noradin Ghadimi IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018, Palermo, Italy	2018
16	Hybrid AC/DC Microgrid Control Using Renewable Generations with Structure Coupled in AC Side Mohsen Nikanjam, M. S. Naderi, G. B. Gharehpetian, Mohammad Reza Karimi 4th Iranian Conference on Renewable Energies and Distributed Generation (ICREDG 2016), March, 2- 3, 2016, Mashhad, Iran (in Persian)	2016
17	Overcurrent Protection Improvement in Microgrid Using Adaptive Relays Amin Yazdani Nejadi, M. S. Naderi and G. B. Gharehpetian 9th Power Systems Protection and Control (PSPC 2015), 14-15 Jan, 2015, Tehran, Iran (in Persian)	2015
18	Effect of Penetration level and Charging Method of EV on Generation Expansion Planning of power System Mohammad Kamran, Mehdi Salay Naderi, Mehrdad Mallaki and G. B. Gharehpetian Smart Grid Conference (SGC2015), Tehran, Iran, Dec. 22-23, 2015 (in Persian)	2015

19	Effects of Electric Vehicles Charge on Voltage Profile and Current Harmonic Distortion R. Siroospour, Mehdi. S. Naderi and H. Rastegar 30d PSC, 2-5 Nov. 2015, Tehran, Iran. (in Persian)	2015
20	VAR control of electric vehicles fast charging stations Improve the voltage profile and optimize the power factor H. Rastegar, R. Siroospour, Mehdi. S. Naderi 30d PSC, 2-5 Nov. 2015, Tehran, Iran (in Persian)	2015
21	Effect of Electric Vehicle Load and Charging Pattern on Generation Expansion Planning Mohammad Kamran, Mehdi Salay Naderi, Mehrdad Mallaki, and G. B. Gharehpetian Smart Grid Conference (SGC2015), Tehran, Iran, Dec. 22-23, 2015	2015
22	Effect of Electric Vehicle Load and Charging Pattern on Generation Expansion Planning Mohammad Kamran, Mehdi S. Naderi, Mehrdad Mallaki 1st National Conference of Energy Management and Optimization, Ali-abad-katoul Azad university branch, Iran, June. 17, 2015	2015
23	Remote Switching Overvoltages of Ayat Subtransmission Substation of Tehran Regional Electric Company Mohsen Ghorat, M. S. Naderi, G. B. Gharehpetian and Masoud Masoum 8th Power Systems Protection and Control Conference, Tehran, Iran, Jan. 15-16 2014 (in Persian)	2014
24	Reliability Enhancement with Radial Deformation Localization in Power Transformer Winding Using Electromagnetic Waves and based on matched Filters H. Rahbari Magham, M. A. Hejazi, H. Karami, , M.S. Naderi and G. B. Gharehpetian 3rd International Reliability Engineering Conference, Tehran, Iran, Feb 4-5, 2014 (in Persian)	2014
25	An Adaptive Protection Scheme based on Fault Location for Smart Micro-Grids R. Jafari, M.S. Naderi, G.B. Gharehpetain International Conference on Renewable Energies and Power Quality, ICREPQ'14, Cordoba, Spain, 8-10 April, 2014	2014
26	Kaveh 63/20 Substation relays Coordination in Hormozgan Regional Electric Company in Presence of DGs and Considering Subtransmission Network Coordinations Mehrdad Mallaki, M. S. Naderi and G. B. Gharehpetian, H. Abdi and F. Adinepour 29-th International Power System Conference, Oct. 27-29, 2014, Tehran, Iran (in Persian)	2014
27	Kaveh 63/20kV Substation Frequency Protection Performance in Gheshm Network of Hormozgan Regional Electric Co. in Islanded State of DGs Considering Loads Different Models (Case Study) F. Adinepour, M. Mallaki, M. S. Naderi and G. B. Gharehpetian 29-th International Power System Conference, Oct. 27-29, 2014, Tehran, Iran (in Persian)	2014
28	Optimal Overcurrent Protection Coordination in Smart Subtransmission Networks with DG Units for Off-grid and On-grid Operation Amin Yazdani Nejadi, M. S. Naderi and G. B. Gharehpetian Smart Grid Conference 2014 (SGC'14), Tehran, Iran, Dec. 9-10, 2014 (in Persian)	2014
29	Exact Determination of a Winding Disk Radial Deformation Location Considering Tank Effect Using an Analytical Method H. Rahbari Magham, M. A. Hejazi, H. Karami Porzani, M. S. Naderi and G. B. Gharehpetian 21st Iranian Conference on Electrical Engineering, Mashhad, Iran, 14-16 May 2013	2013
30	Compensation of DGs Impact on Overcurrent Protection System of Smart Micro-Grids Rahim Jafari, M. S. Naderi, G. B. Gharehpetian, N. Moaddabi 22nd International Conference on Electricity Distribution (CIRED), Stockholm, Sweden, 10-13 June 2013	2013

31	Insulation Coordination Studies in Hormozgan Regional Electric Company from Lightning Overvoltages Point of View A.J. Ghanizadeh, M. Ghorat, M. S. Naderi, G. B. Gharehpetian and Farshad Adinepour 28-th International Power System Conference, Nov. 2-4, 2013, Tehran, Iran (in Persian)	2013
32	Practical Solutions for Reduction of Eeffects of Ferroresonance Phenomenon during Remote Switching of Azarbaijan Subtransmission Substation in Tehran Regional Electric Company M. Ghorat, G. B. Gharehpetian, M. S. Naderi, and Kourosh Imanali Salari 28-th International Power System Conference, Nov. 2-4, 2013, Tehran, Iran (in Persian)	2013
33	A New Algorithm for Localization and Determination of Extent of Disk Space Variation in Transformer Windings Based on Principal Component Analysis and DT M. Rahmatian, A.J. Ghanizadeh, M. S. Naderi and G. B. Gharehpetian 28-th International Power System Conference, Nov. 2-4, 2013, Tehran, Iran (in Persian)	2013
34	Investigation of AVR, PSS, STATCOM and ANN STATCOM Effect on Control and Damping Power System Oscillation H. Rajabi, Mehdi S. Naderi 16th Electrical Engineering Student Conference, 2-4 May 2013, Kazeroon, Iran	2013
35	Comparison of PSS and STATCOM for Control and Damping Power System Oscillations H. Rajabi, J. Beiza, Mehdi S. Naderi The first national Electrical and Computer Congress of south of Iran, Islamic Azad University of Khoormouj , May 2013, Iran	2013
36	Improvement of Power System Dynamic using ANN VSC STATCOM H. Rajabi, H. Shakeri, Mehdi S. Naderi, M. Zareh Khafri First National Congress on New Technologies in Electrical and Robotics Industries, Nov. 2013, Islamshar, Iran (In Persian).	2013
37	Eliminating null wire, improving power quality and loss reduction by Designing three phase low voltage distribution network passive device A. Mahdavi-nia, A. Ghareveisi and Mehdi S. Naderi 22nd International Conference on Electricity Distribution (CIRED), Stockholm, Sweden, 10-13 June 2013	2013
38	Optimal Capacity of DGs on Distribution Networks Operation H. Shakeri, Mehdi S. Naderi, M. Zareh Khafri, H. Rajabi First National Congress on New Technologies in Electrical and Robotics Industries, Oct. 2013, Islamshar, Iran (In Persian).	2013
39	Voltage Harmonic Reduction in Dc Side of HVDC Systems from the Electromagnetic Interactions point of view of Using the Voltage Injection Method M. Zareh Khafri, Mehdi S. Naderi, H. Shakeri, H. Rajabi First National Congress on New Technologies in Electrical and Robotics Industries, Oct. 2013, Islamshar, Iran (In Persian)	2013
40	Exact determination of the transformer winding radial deformation location in the presence of noise [50] Hesam Rahbari Magham M.A. Hejazi M. S. Naderi 28th International Power System Conference, Nov. 2013. Tehran, Iran. (in Persian)	2013
41	Voltage Unbalance Reduction in Distribution Systems using Single Phase DGs and Balancing Controller H. Karami Porzani, M. S. Naderi, G. B. Gharehpetian and D. Solati Alkaran Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), March 7-8, 2012, Tehran, Iran (in Persian)	2012
42	A Novel and Practical Solution to Mitigate Voltage Unbalance in LV Networks by Connection and On-line Control of a Single Phase DG H. Karami B. Vahidi M. S. Naderi G. B. Gharehpetian and M. R. Vatani 17-th Electric Power Distribution Conference, EPDC 2012, Tehran, Iran, May 1-2, 2012	2012

43	Radial Deformation Location Determination in Axial Direction of Power Transformer Winding using UWB Static Antennas and Hyperbolic Method Hesam Rahbari Magham M.A. Hejazi M. S. Naderi and G.B. Gharehpetian 27-th International Power System Conference, Nov. 12-14, 2012, Tehran, Iran (in Persian)	2012
44	A New Method to Discriminate Electrical Short Circuits and Mechanical Defects in Power Transformer Winding using Correlation Difference and ANN Methods Matin Rahmatian, M.S. Naderi, G.B. Gharehpetian and Ahmad Javid Ghanizadeh 27-th International Power System Conference, Nov. 12-14, 2012, Tehran, Iran (in Persian)	2012
45	3D Simulation for PD Allocation in Power Transformer based on Received Signals of UWB Antennas Hossein Karami Parzani, M.A. Hejazi, M.S. Naderi and G.B. Gharehpetian 27-th International Power System Conference, Nov. 12-14, 2012, Tehran, Iran (in Persian)	2012
46	A Novel Method for Exact Determination to Localize Radial Deformation along the Transformer Winding Height H. Rahbari Magham, M.S. Naderi, G.B. Gharehpetian, M.A. Hejazi and H. Karami Porzani 4th Conference on Thermal Power Plants (Gas, Combined Cycle, and Steam), Dec. 18-19, 2012, Tehran, Iran	2012
47	Three-dimensional Simulation of PD Source Allocation Through TDOA Method H. Karami, M.S.A. Hejazi, M.S. Naderi, G.B. Gharehpetian, S. Mortazavian 4th Conference on Thermal Power Plants (Gas, Combined Cycle, and Steam), Dec. 18-19, 2012, Tehran, Iran	2012
48	Calculation of solar radiation on sloped panel in Kerman using estimation and calculation methods and comparison of them Mahdavi Nia, N. Taghizadeghan, Mehdi S. Naderi, J. Beiza, M.A. Asadi 3rd Electrical Energy consumption reform and Optimization Conf., Ahwaz, Iran, March 2012	2012
49	Evaluation and Numerical Calculation of DGs Effects on Power System Characteristics N. Taghizadeghan, M.R. Rashidi, Mehdi S. Naderi, M.R. Saffari Energy management congress(EMS), SAMA Proffesional & Technical School, 16 May 2012, Eslamshahr Tehran, Iran	2012
50	Exploring the Perspective of Fuel Cell Technology and Identifying its Demand Market in Iran as One of the Most Important New Energy Resources B. Yousefpour, Mehdi S. Naderi, M.R. Saffari Siahkali, A. Kazemi, A. Dehghan Second , National Congress on Electrical Engineering, Computer and Information Technology, 7-9 Nov. 2012, Mashhad, Iran. (In Persian)	2012
51	Effect of DGs on Reliability of Overload Feeders of Bandar Abas H. Moarefi, G. B. Gharehpetian, M.M. Ardehali, F. Ghaemi and Mehdi S. Naderi 26-th International Power System Conference, 31 Oct.-2 Nov. 2011, Tehran, Iran (in Persian)	2011
52	Citing and Sizing of Small Scale Generators in Distribution Systems using Combination of GA and Analytical Methods D. Solati Alkaran, Mehdi S. Naderi, G. B. Gharehpetian and H. Karami Parzani 26-th International Power System Conference, 31 Oct.-2 Nov. 2011, Tehran, Iran(in Persian)	2011
53	Domestic Load Modeling of Bandar Abas City using Statistic Method for Load Management Process and Suggestion of Solutions N. Amirshekari, G. B. Gharehpetian, Mehdi S. Naderi 26-th International Power System Conference, 31 Oct.-2 Nov. 2011, Tehran, Iran (in Persian)	2011
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NO	TITLE	YEAR
1	Iranian Smart Grid Road Map and Iranian National Advanced Metering Infrastructure Plan (FAHAM)", in "Application of Smart Grid Technologies, Case Studies in Saving Electricity in Different Parts of the World G. B. Gharehpetian, M. S. Naderi, H. Modaghegh and A. R. Zakariazadeh Book, Lisa Lamont and Ali Sayigh, Academic Press, Elsevier, 2018, Section 1, ISBN 978-012-80-3128-5	2018

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NO	TITLE	YEAR
1	Simulator of converting wind energy to electricity using AFPMSG type direct coupling generator Mostafa Abarzadeh Bayrami , Mehdi Salay Naderi, Saeed Aghaei Farouji, Gevork B. Gharehpetian Registers under No. 101060in Iran, May. 06, 2020	2020

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NO	TITLE	YEAR
1	Study and research for macro analysis of the performance of electricity industry in the period 1368-1388 with emphasis on the analysis of electricity generation trends in the country Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Power Generation Companies Syndicate	2021
2	Design and Implementation of Integrated Control and Monitoring Software System for DGs and Renewable Power Generation Units in Smart Grid Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Tavanir Co	2020
3	Study, Design and Implementation of Smart Microgrid Pilot Lab at AUT Based on Iran Smart Grid Executive Road Map Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Tavanir Co	2019
4	Technical study of component performance and connection of microgrids to the power grid in smart power grids Mehdi SALAY NADERI - Amirkabir University of Technology (AUT) Niroo Research Institute (NRI)	2019
5	Investigation of resonance and ferroresonance transient effects in KZREC transmission network and presenting operational solution to reduce side effects of them Mehdi SALAY NADERI and Gevork B. Gharehpetian - Amirkabir University of Technology (AUT) Khuzestan Regional Electric Company (HREC)	2018

6	Design and Prototyping of a Flywheel Energy Storage System for Instantaneous Frequency Control of Power Grid Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Tavanir Co.	2015
7	Design and Construction of Grid-Connected 3kW Wind Turbine Simulator Coupled to AEPMSC Generator Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Thermal Power Plants Holding Co.	2015
8	Modeling of Considerations of Wind Farms Interconnection to Iranian Grid Mehdi SALAY NADERI and Gevork B. Gharehpetian - Amirkabir University of Technology (AUT) Tavanir Co	2015
9	Study on Overvoltages Applied to Arc Furnace Transformers Primary Path and RC Filters to Suggest Solution for Their Removal Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Mobarakeh Steel Company	2014
10	Investigation of the protection system in Kaveh substation using simulation software in steady and transient states and providing practical solutions to modify the protection system in Kaveh 63/20 kV substation considering the connection of two DG units with capacity of 25 MVA in the mentioned substation Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Hormozgan Regional Electric Company (HREC)	2013
11	Iranian Smart Grid and Prototype Implementation Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Ministry of Science, Research and Technology (MSRT)	2012
12	Investigating the events caused by transient states in Azerbaijan and Ayat substations and providing solutions to reduce the adverse effects on transformers and extend the results to similar substations in Tehran electricity network Mehdi SALAY NADERI and Gevork B. Gharehpetian - Amirkabir University of Technology (AUT) Tehran Regional Electric Company (TREC)	2011
13	Techno-economicd Studies for Feasibility of HVDC System Applcation in Transmission System of Iran(Technical Specifications and Documents) Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Iran Grid Management Company (IGMC)	2010
14	Conducting studies on the development of Distributed Generation including feasibility study of as CHPs in Generation above 1 MW Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Renewable Energy and Energy Efficiency Organization	2009
15	Comprehensive studies in the field of transient states for Hormozgan regional electric company network Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Hormozgan Regional Electric Company (HREC)	2009
16	Determining the strategic sub-areas of Tehran regional electricity transmission and sub-transmission network with the aim of controlling and limiting of the short-circuit current level Gevork B. Gharehpetian and Mehdi SALAY NADERI- Amirkabir University of Technology (AUT) Iran Grid Management Company (IGMC)	2008

Management/Administration Jobs

Scientific Societies

1- ??? ?????? ?????- ???????? ??? 500 ????? ????????

2- ??? ???? ?????? ?? ??????? ??? ???? ??? (UNSW) ?????? ????????? 1385-1384.

Awards

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