



Amirkabir University of Technology
(Tehran Polytechnic)



MEHRDAD ABEDI

Professor
Department of Electrical Engineering
Power

Email:
abedi@aut.ac.ir

Phone:

h-index (Scopus):
28

Citations (Scopus):
2637

Supervised PhD Theses

#	Thesis title	By	Date
1	Emergency Control against voltage instability in Self-Healing power systems using WAMC Facilities	Firoozeh Rameshkah & Mehrdad Abedi	January 2011
2	Detection and localization of minor faults of power transformers during impulse	Mehdi Salayenaderi & Mehrdad Abedi	March 2007

Supervised MSc Theses

#	Thesis title	By	Date
1	Demand forecasting in smart grids using data mining of smart meters data	Mohammad Sayadlou & Mehrdad Abedi	August 2021
2	The appropriate selection of energy storage systems (ESSs) with its associated in a microgrid	Erfan Mehdi Pour & Mehrdad Abedi	April 2021
3	Impact of several types of distributed generation sources on microgrid	Shahriar Kamalinya & Mehrdad Abedi	February 2021
4	Use of FACTS Devices to Improve the Performance and Flexibility of Smart Electrical Transmission Networks	Amin Siahchereh Badeli & Mehrdad Abedi	September 2020
5	Active Control Of DGs Distributed In Power System With Capability Of Operation In Islanded Mode.	Mohammad Reza Hezarjaribi Vanoosh & Mehrdad Abedi	May 2020

6	Optimal operation of home microgrids based on a bi-level hierarchical architecture considering consumers' behavior	Nastaran Gholizadeh & Mehrdad Abedi	October 2019
7	An Advanced Demand Response Program in Presence of Distributed Generation Resources and Electric Vehicles	Masoumeh Ahrabi & Mehrdad Abedi	September 2019
8	Determination and isolation of unstable powerplants using installed pmus data in power systems	Solmaz Nazaralizadeh & Mehrdad Abedi	July 2019
9	A detailed multidimensional environmental feasibility analysis of thermal power plants in India	Zuhaib Tayar Mirza & Mehrdad Abedi	February 2019
10	Dynamic economic dispatch problem considering demand (response(DEDDR	Seifollah Asadpour & Mehrdad Abedi	October 2018
11	Analysis and simulation of microgrids in presence of demand response programs	Mehdi Karamidarabi & Mehrdad Abedi	October 2018
12	Probabilistic method for optimizing the number and timing of substation spare transformers	Seyed Amir Yazdanpanah & Mehrdad Abedi	February 2018
13	energy management in a microgrid consist of pv panels and wind turbines with storage device	Pooriya Motevaker & Mehrdad Abedi	February 2018
14	Evaluating the effect of MPPT algorithms on the performance of tidal stream turbines(Marine-Current) farm connected to the grid	Saman Mehrnia & Mehrdad Abedi	February 2018
15	Self-healing Distribution System Based on Sectionalizing in to Microgrids	Kasra Khalili & Mehrdad Abedi	February 2018
16	Providing a Novel Approach To Active Distribution System Restoration	Mohsen Molaali & Mehrdad Abedi	February 2018
17	Controller Design for Hybrid Suspension Maglev Train	Milad Jalali & Mehrdad Abedi	July 2017
18	optimal planning of islanded - microgrids with taking into account minimum investment	Elyas Maghsouditabrizi & Mehrdad Abedi	July 2017
19	Presentation of the new approach to energy resources management including of electrical vehicles	Mahdi Sabermolaei & Mehrdad Abedi	February 2017
20	Improvement of Frequency Stability in Islanded Microgrids with High Penetration of Renewables by Virtual Inertia	Mohammad Javad Haddadi & Mehrdad Abedi	February 2017
21	Analysis and control of microgrids for improvement of voltage stability with consideration of parametric uncertainties	Mostafa Mohammadian & Mehrdad Abedi	February 2017
22	Reconfiguration of large-Scale Distribution System and DG placement for loss reduction	Farshad Babanabadi & Mehrdad Abedi	February 2017
23	Optimal long-term expansion planning of transmission and generation by considering the impact of microgrids	Hamidreza Qasemzadeh & Mehrdad Abedi	February 2017
24	Switching effect analysis for EAF power supply by optimal sizing RC filter in khuzestan steel company	Hedayatollah Rezanazarzadeh & Mehrdad Abedi	February 2017
25	multi-objective dynamic VAR planning in power system against short- term voltage instability	Parnian Fakhrooieian & Mehrdad Abedi	October 2016
26	Drilling systems modeling equiped by FACTS devices in order to reduce side effects	Majid Dehghani & Mehrdad Abedi	February 2016

27	Design and modelling of electric heater in pipe and studying heat up and heat tracing in pipe	Mona Shayeghan & Mehrdad Abedi	February 2016
28	frequency control of microgrids in presence of plug-in hybrid electric vehicles	Mahdi Bayati & Mehrdad Abedi	February 2016
29	Applications of Wind Energy System in Drilling Plants	Reza Zaheri Abdevand & Mehrdad Abedi	January 2016
30	PHEV application for frequency and voltage control of microgrids	Bahram Poornazaryan & Mehrdad Abedi	January 2016
31	Assessment Unit Commitment Problem in Virtual Power Plants (VPP) in in presence of EV	Hassan Zolghadr & Mehrdad Abedi	January 2016
32	Determining strategies for choosing the appropriate electrical vehicles according to the location of charging stations in Irans transportation network by considering power load profiles	Mehdi Mosstafayi & Mehrdad Abedi	October 2015
33	Khouzestan steel companys distribution grid reconfiguration	Leila Abkar & Mehrdad Abedi	September 2015
34	Short Circuit Study and reductionof Single Phase to ground faultin 230KV Substation of Damavand Petrochimal Power Plant	Farhan Ghobishavi & Mehrdad Abedi	September 2015
35	Monitoring Temperature of cable based on the web	Amirreza Movahed & Mehrdad Abedi	September 2015
36	"Quantify Amount of Reserve in System with Significant Wind Power Pennetration"	Ahmad Hemati & Mehrdad Abedi	July 2015
37	evaluation of wind energy system in Caspian sea with connection to Iran grid	Mojtaba Mohammad Shafinejad & Mehrdad Abedi	February 2015
38	Economic Dispatch in Smart Grid with Electrical Vehicle	Mohammadreza Poursistani & Mehrdad Abedi	February 2015
39	Design of installed and moveable filter in electrical rail way system	Majid Niknahad & Mehrdad Abedi	January 2015
40	Quantifying Spinning Reserve Considering Power Network Reliability and Security	Mostafa Majlesara Jahromi & Mehrdad Abedi	October 2014
41	optimal power flow considering load and renewable generation uncertainties	Mohammad Kamandi & Mehrdad Abedi	October 2014
42	SVC in electric railways	Arian Zahedmanesh & Mehrdad Abedi	October 2014
43	" Microgrid swing damping improvement using energy storage "	Ghadir Hosseine & Mehrdad Abedi	October 2014
44	- modeling of power quality in electric railways	Seid Hamid Saffari & Mehrdad Abedi	February 2014
45	evaluate the microgrids behavior in different operation mode using artificial neural networks	Faegheh Irannezhad & Mehrdad Abedi	October 2013
46	- Analysis of Lightning Transient in the electrical railway network and choosing the appropriate arresters	Mehdi Amiri Dehcheshmeh & Mehrdad Abedi	October 2013

47	proposed strategy for participation of virtual power plant in energy and spinning reserve markets	Peyman Karimyan & Mehrdad Abedi	September 2013
48	determination of faulted component in unbalanced microgrid for on-grid and off-grid	Erfan Maali Amiri & Mehrdad Abedi	September 2013
49	Load-frequency control system modeling in two area networks connected by HVDC line and equipped by PMU.	Zahra Khatami & Mehrdad Abedi	February 2013
50	employing of PMU data to prevent maloperation of distance relays (related by power swing and mutual effects on parallel transmission lines)	Ali Khademi & Mehrdad Abedi	February 2013
51	Assessment of multilevel converter operation in hybrid wind/PV/UC system for feeding industrial motor load	Mohammad Rashidi & Mehrdad Abedi	October 2012
52	Microgrid Control In Presence Of Industrial Loads	Amir Khaledian & Mehrdad Abedi	September 2012
53	Optimal PMU placement to specify contingency conditions leading to load shedding	Seyed Hadi Binandeh & Mehrdad Abedi	February 2012
54	Evaluation of dynamic and transient behavior of offshore wind farm due to traditional and motor loads using HVDC power transmission system	Behnam Behzad Jazi & Mehrdad Abedi	December 2011
55	Designing of a typical wind farm considering electrical and mechanical criteria	Hamed Ahmadi & Mehrdad Abedi	October 2011
56	Analysis of load dynamic characteristics in distribution networks using measurements of phase measurements units	Seyed Hossein Akhavan Hejazi & Mehrdad Abedi	February 2011
57	Extending the Achievable Interval of Modulation Index in Multi-Level Inverter by Enhancing Switching Strategies	Reza Salehi Sharafdarkolaee & Mehrdad Abedi	February 2011
58	partial discharge localization in power cables using intelligent methods	Mohammah Dehghani & Mehrdad Abedi	October 2010
59	fuel cell and photovoltaic in series h-bridge converters and its operation comparison with their direct connection to dc-bus	Mohammad Nazari & Mehrdad Abedi	October 2010
60	optimal operation of micro grid with renewable energy resource in isolated island	Ailin Asadi Nejad & Mehrdad Abedi	January 2010
61	Modeling of UPFC with AC link and its application to power system stability	Roozbeh Khoraminia & Mehrdad Abedi	December 2009
62	Design and Analysis of an Angular Servo pneumatic Actuator	Farhad Tourani & Mehrdad Abedi	December 2009
63	Design And construction of searchable web Based DataAcquisition system for HYDRO AND OIL STORAGE SYSTEM	Ali Mozafari Goudarzi & Mehrdad Abedi	June 2009
64	fault diagnosis and fault location in transmission lines by use of advanced neural networks	Amirhossein Aghakhani & Mehrdad Abedi	February 2009
65	Modeling and simulation of bus transfer system in pollution peripheries to power quality disturbances	Mohammadreza Jan Aghaee & Mehrdad Abedi	February 2009
66	Partial discharge detection in transformer winding with neural network	Hamed Nafisi & Mehrdad Abedi	December 2008

67	MODELING THE COMBINATION OF UPQC AND DG WITH COMMON DC BUS TO EVALUATING ITS OPERATION IN DISTRIBUTION SYSTEM	Sayyed Mahdi Aleemran & Mehrdad Abedi	May 2008
68	OPTIMAL DESIGN FOR DISTRIBUTION NETWORK ASSOCIATED WITH DG USING INTELLIGENT ALGORITHM	Ali Jahanbani Ardakan & Mehrdad Abedi	May 2008
69	DESIGN INTELLIGENCE CONTROLLER FOR PARALLEL FACTS FOR IMPROVE DYNAMIC INDUSTRIAL LOAD	Ehsan Saeidpour Parizy & Mehrdad Abedi	February 2008
70	OPTIML LOAD SHEDDING WITH TECHNICAL AND ECONOMICAL CONSTRAINTS DURING CONTINGENCY SITUATION USING NLP AND INTELLIGENT AL	Behzad Farhangi Rad & Mehrdad Abedi	February 2008
71	GENERATION EXPANSION PLANNING BASED ON INTELLIGENT LGORITHM	Adel Mohseni & Mehrdad Abedi	May 2007
72	OFF-LINE SECURITY ASSESSMENT IN RESTRUCTURED POWER SYSTEMS	Mohamadbagher Abolhasani Jebeli & Mehrdad Abedi	April 2007
73	SCREENING AND RANKING OF CONTINGENCIES FROM SECURITY POINT OF VIEW AND ITS ENHANCEMENT WITH OPTIMAL ALLOCATION OF FACTS D	Zeinab Ghofrani Jahromi & Mehrdad Abedi	September 2006

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Electric Power Systems	Mehrdad Abedi	Iran (Islamic Republic of)	November 2015	1
2	Engineering Mathematics	Gholamreza Moradi, Mehrdad Abedi	Iran (Islamic Republic of)	November 2014	2
3	Electrical Machines volume 5 Synchronomous Machines	Mehrdad Abedi	Iran (Islamic Republic of)	November 2011	2
4	Electrical Machines volume 4 , DC Machines	Mehrdad Abedi	Iran (Islamic Republic of)	November 2009	2
5	Power Sytstem Dynamics - Volume 2 - Analytical Methods and Simulation	Mehrdad Abedi, Iraj Pourkeivani	Iran (Islamic Republic of)	May 2021	1
6	Electric Power Systems Volume 2	Mehrdad Abedi	Iran (Islamic Republic of)	May 2014	2
7	BASIC CONTROL SYSTEMS	Mehrdad Abedi, Mohammad Bagher Menhaj, Hassan Rastegar, Hamed Alaghemand	Iran (Islamic Republic of)	March 2002	2
8	BASIC CONTROL SYSTEMS	Mehrdad Abedi, Mohammad Bagher Menhaj, Hassan Rastegar, Hamed Alaghemand	Iran (Islamic Republic of)	March 1996	1
9	Operation, Optimization and Control in Power Systems	Mehrdad Abedi	Iran (Islamic Republic of)	June 2019	1

10	Electric Power Systems vol.3	Mehrdad Abedi	Iran (Islamic Republic of)	June 2017	2
11	Electrical Machines	Mehrdad Abedi	Iran (Islamic Republic of)	June 2010	1
12	Electrical Machines volume 1 , Applied Electromagnetic	Mehrdad Abedi	Iran (Islamic Republic of)	February 2010	3
13	Power System Dynamics- Volume1- Modelling	Mehrdad Abedi, Iraj Pourkeivani	Iran (Islamic Republic of)	December 2020	1
14	Electrical Machines volume 5 , Synchronous Machines	Mehrdad Abedi	Iran (Islamic Republic of)	December 2009	1
15	Electric Power Systems	Mehrdad Abedi	Iran (Islamic Republic of)	August 2011	1

Journal Papers

Portal Records

- 1 Majid Dehghani, Mohammad Taghipour, Gevork B. Gharehpetian, Mehrdad Abedi, "Optimized Fuzzy Controller for MPPT of Grid-Connected PV Systems under Rapidly Changing Atmospheric Conditions", Journal of Modern Power Systems and Clean Energy, March 2022 Vol. 9, Num. 2, Page 376-383, March 2022,
- 2 N.Gh, S.Hossein Hosseinian, Mehrdad Abedi, H.N, P. Siano, "Optimal placement of fuses and switches in active distribution networks using value based MINLP", RELIABILITY ENGINEERING & SYSTEM SAFETY, January 2022 Vol. 217, Num. 0, Page 1-11, January 2022,
- 3 Mahdi Bayati, Mehrdad Abedi, Maryam Farahmandrad, Gevork B. Gharehpetian, Kambiz Tehrani, "Important Technical Considerations in Design of Battery Chargers of Electric Vehicles", ENERGIES, September 2021 Vol. 14, Num. 18, Page 5878-0, September 2021,
- 4 Mehdi Karamidarabi, Hamed Ganjeh Ganjehlou, Amirreza Jafari, Morteza Nazari?Heris, Gevork B. Gharehpetian, Mehrdad Abedi, "Evaluating the Effect of Demand Response Programs (DRPs) on Robust Optimal Sizing of Islanded Microgrids", ENERGIES, September 2021 Vol. 14, Num. 18, Page 1-20, September 2021,
- 5 Iraj Pourkeivani, K.Kh, Mehrdad Abedi, S.Hossein Hosseinian, "A New Stability Index for Induction Motors Three-Phase Fault Recovery in Industrial Networks Based on Post-Fault Slip Estimation", IEEE TRANSACTIONS ON POWER DELIVERY, June 2021 Vol. 36, Num. 3, Page 1471-1481, June 2021,
- 6 Mehrdad Mallaki, Mahdi Salay Naderi, Mehrdad Abedi, Saeed D. Manshadi, Gevork B. Gharehpetian, "Strategic Bidding in Distribution Network Electricity Market Focusing on Competition Modeling and Uncertainties", Journal of Modern Power Systems and Clean Energy, May 2021 Vol. 9, Num. 3, Page 561-572, May 2021,
- 7 Nastaran Gholizadeh, Mehrdad Abedi, Hamed Nafisi, Mousa Marzband, Abdolah Loni, Ghanim A. Putrus, "Fair-Optimal Bilevel Transactive Energy Management for Community of Microgrids", IEEE SYSTEMS JOURNAL, April 2021 Vol. 10, Num. 2, Page 1-11, April 2021,
- 8 Mahdi Bayati, Mehrdad Abedi, Maryam Farahmandrad, Gevork B. Gharehpetian, "Delivering Smooth Power to Pulse-Current Battery Chargers: Electric Vehicles as a Case in Point", IEEE TRANSACTIONS ON POWER ELECTRONICS, February 2021 Vol. 36, Num. 2, Page 1295-1302, February 2021,
- 9 Mahdi Bayati, Mehrdad Abedi, Gevork B. Gharehpetian, Maryam Farahmandrad, "Two Designs for DC-DC Stage of Electric Vehicle Charging Stations", ELECTRICAL ENGINEERING, December 2020 Vol. 102, Num. 4, Page 2389-2399, December 2020,
- 10 Masoumeh Ahrabi, Mehrdad Abedi, Hamed Nafisi, Mohammad Amin Mirzaei, Behnam Mohammadi-Ivatloo, Mousa Marzband, "Evaluating the effect of electric vehicle parking lots in transmission-constrained AC unit commitment under a hybrid IGDT-stochastic approach", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, October 2020 Vol. 125, Num. 0, Page 1-16, October 2020,

- 11 M.S.M, M.N.H, Ehsan Nazerfard, Mehrdad Abedi, S.A, H.J, "Intelligent approach for residential load scheduling", IET GENERATION TRANSMISSION & DISTRIBUTION, September 2020 Vol. 14, Num. 21, Page 4738-4745, September 2020,
- 12 Milad Sadat Mohammadi, Morteza Nazari-Heris, Ehsan Nazerfard, Mehrdad Abedi, Somayeh Asadi, Houtan Jebelli, "Intelligent Approach for Residential Load Scheduling", IET GENERATION TRANSMISSION & DISTRIBUTION, September 2020 Vol. 14, Num. 21, Page 4738-4745, September 2020,
- 13 Mahdi Bayati, Mehrdad Abedi, Gevork B. Gharehpetian, Maryam Farahmandrad, "Sinusoidal-Ripple Current Control in Battery Charger of Electric Vehicles", IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, July 2020 Vol. 69, Num. 7, Page 7201-7210, July 2020,
- 14 Zuhaib Tayar Mirza, Mehrdad Abedi, "Introduction of an environmentally optimized energy scenario for the future of Indian power industry", Advances in Energy Research, June 2020 Vol. 7, Num. 2, Page 101-121, June 2020,
- 15 Mehrdad Mallaki, Mahdi Salay Naderi, Mehrdad Abedi, Saeed D. Manshadi, Gevork B. Gharehpetian, "A Novel Energy-Reliability Market Framework for Participation of Microgrids in Transactive Energy System", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, May 2020 Vol. 122, Num. 106193, Page 1-14, May 2020,
- 16 Mahdi Zolfaghari, Mehrdad Abedi, Gevork B. Gharehpetian, J. M. Guerrero, "Flatness-based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-Observer", IEEE SYSTEMS JOURNAL, April 2020 Vol. 15, Num. 1, Page 478-486, April 2020,
- 17 Mahdi Zolfaghari, Mehrdad Abedi, Gevork B. Gharehpetian, "Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids", IEEE SYSTEMS JOURNAL, March 2020 Vol. 14, Num. 1, Page 1117-1124, March 2020,
- 18 Mojtaba Rahmani, S.Hossein Hosseinian, Mehrdad Abedi, "Stochastic two-stage reliability- bases Security Constrained Unit Commitment in smart grid environment", SUSTAINABLE ENERGY GRIDS & NETWORKS, March 2020 Vol. 22, Num. 0, Page 0-0, March 2020,
- 19 Ali Asghar Khodadoost Arani, Gevork B. Gharehpetian, Mehrdad Abedi, "A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids", IEEE SYSTEMS JOURNAL, March 2020 Vol. 14, Num. 1, Page 1080-1087, March 2020,
- 20 Mahdi Bayati, Mehrdad Abedi, Gevork B. Gharehpetian, Maryam Farahmandrad, "Short-term Interaction between Electric Vehicles and Microgrid in Decentralized Vehicle-to-Grid Control Methods", Protection and Control of Modern Power Systems, December 2019 Vol. 4, Num. 1, Page 1-11, December 2019,
- 21 Mahdi Zolfaghari, Mehrdad Abedi, Gevork B. Gharehpetian, "Power Flow Control of Interconnected AC-DC Microgrids in Grid-Connected Hybrid Microgrids Using Modified UIPC", IEEE Transaction on Smart Grid, November 2019 Vol. 10, Num. 6, Page 6298-6307, November 2019,
- 22 Mojtaba Mohammad Shafinejad, Mehrdad Abedi, "Selection of suitable sites for offshore wind farms in the Caspian Sea and choosing the most suitable wind turbine in each area", WIND ENGINEERING, November 2019 Vol. 49, Num. 2, Page 1-20, November 2019,
- 23 Mahdi Zolfaghari, Mehrdad Abedi, Gevork B. Gharehpetian, "A Repetitive Control- based Approach for Power Sharing among Boost Converters in DC Microgrids", Journal of Operation and Automation in Power Engineering, October 2019 Vol. 7, Num. 2, Page 168-175, October 2019,
- 24 Nastaran Gholizadeh, Mehrdad Abedi, Hamed Nafisi, Mousa Marzband, "Learning-Based Energy Management System for Scheduling of Appliances inside Smart Homes", AUT Journal of Electrical Engineering, October 2019 Vol. 21, Num. 2, Page 1-10, October 2019,
- 25 Bahram Pournazarian, Peyman Karimyan, Gevork B. Gharehpetian, Mehrdad Abedi, Edris Pouresmaeil, "Smart participation of PHEVs in controlling voltage and frequency of island microgrids", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, September 2019 Vol. 110, Num. 9, Page 510-522, September 2019,
- 26 Nastaran Gholizadeh, Gevork B. Gharehpetian, Mehrdad Abedi, Hamed Nafisi, Mousa Marzband, "An innovative energy management framework for cooperative operation management of electricity and natural gas demands", ENERGY CONVERSION AND MANAGEMENT, September 2019 Vol. 200, Num. 0, Page 1-9, September 2019,

- 27 Ali Asghar Khodadoost Arani, Gevork B. Gharehpetian, Mehrdad Abedi, "Decentralized Primary and Secondary Control Strategy for Islanded Microgrids Considering Energy Storage Systems Characteristics", IET GENERATION TRANSMISSION & DISTRIBUTION, July 2019 Vol. 13, Num. 14, Page 2986-2992, July 2019,
- 28 Amir Abbaszadeh, Mehrdad Abedi, Ali Mohammadi, M.R.E, "Restoration duration estimation applying generally distributed transition stochastic Petri nets considering the switching failure of breakers", IET GENERATION TRANSMISSION & DISTRIBUTION, July 2019 Vol. 13, Num. 18, Page 4089-4098, July 2019,
- 29 Amir Abbaszadeh, Mehrdad Abedi, Ali Mohammadi, M.R.E, "Arrester Thermal Stability Control: Implementing a Combination of Countermeasures During Power System Restoration: A rel Case Study", IEEE SYSTEMS JOURNAL, June 2019 Vol. 13, Num. 3, Page 3223-3232, June 2019,
- 30 Ali Asghar Khodadoost Arani, Gevork B. Gharehpetian, Mehrdad Abedi, "Review on Energy Storage Systems Control Methods in Microgrids", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, May 2019 Vol. 107, Num. 5, Page 745-757, May 2019,
- 31 Amir Abbaszadeh, Mehrdad Abedi, Ali Mohammadi, "Optimal islands determination in power system restoration applying multi-objective populated simulated annealing", International transaction on Electrical Energy Systems, March 2019 Vol. 29, Num. 3, Page 1-25, March 2019,
- 32 Sadegh Ghani Varzaneh, Mehrdad Abedi, Gevork B. Gharehpetian, "Constant Power Control of Variable Speed Wind Farm for Primary Frequency Control Support", Energy Systems-Optimization Modeling Simulation and Economic Aspects, February 2019 Vol. 10, Num. 1, Page 163-183, February 2019,
- 33 Seyyed Mohammad Sadegh Ghiasi, Mehrdad Abedi, S.Hossein Hosseinian, "Mutually Coupled Transmission Line Parameter Estimation and Voltage Profile Calculation Using One Terminal Data Sampling and Virtual Black-Box", IEEE Access-OPEN, January 2019 Vol. 7, Num. 7, Page 106805-106812, January 2019,
- 34 Mahdi Zolfaghari, R.M.Ch, Mehrdad Abedi, M.Sh, "A Robust Distance Protection Approach for Bulk AC Power System Considering the Effects of HVDC Interfaced Offshore Wind Units", IEEE SYSTEMS JOURNAL, December 2018 Vol. 12, Num. 4, Page 3786-3795, December 2018,
- 35 Mehdi Mosstafayi, Mehrdad Abedi, Gholam Hossein Riahy Dehkordi, "Optimal DC Fast Charging Placing And Sizing In Iran Capital (Tehran)", AUT Journal of Electrical Engineering, November 2018 Vol. 50, Num. 2, Page 149-156, November 2018,
- 36 Hamid Rezaie, Mehrdad Abedi, Saeed Rastegar, Hassan Rastegar, "Economic Emission Dispatch Using an Advanced Particle Swarm Optimization Technique", World Journal of Engineering, June 2018 Vol. 0, Num. 0, Page 23-32, June 2018,
- 37 Parnian Fakhrooieian, Mehrdad Abedi, Peyman Karimyan, "Optimal allocation and sizing of dynamic VAR support to improve short-term voltage stability considering wind farm and dynamic load model", International Journal of Industrial Electronics, Control and Optimization, April 2018 Vol. 1, Num. 1, Page 41-51, April 2018,
- 38 Mahdi Zolfaghari, S.Hossein Hosseinian, S.Hamid Fathi, Mehrdad Abedi, Gevork B. Gharehpetian, "A New Power Management Scheme for Paralled-Connected PV Systems in Microgrids", IEEE Transactions on Sustainable Energy, February 2018 Vol. 0, Num. 0, Page 1-10, February 2018,
- 39 Amir Abbaszadeh, Mehrdad Abedi, Ali Mohammadi, "General Stochastic Petri Net approach for the estimation of power system restoration duration", International transaction on Electrical Energy Systems, January 2018 Vol. 10, Num. 0, Page 1-17, January 2018,
- 40 Seyyed Mohammad Sadegh Ghiasi, Mehrdad Abedi, S.Hossein Hosseinian, "A New Approach for the Estimation of Transient Voltage Profile Along Transmission Line Une Nouvelle Approche Pour L estimation du Profil de la Tension Transitoire le Long de la Ligne de Transmission", CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING-REVUE CANADIENNE DE GENIE ELECTRIQUE ET INFORMATIQUE, November 2017 Vol. 40, Num. 4, Page 295-302, November 2017,
- 41 M.F. S.Hossein Hosseinian, Mehrdad Abedi, "New Application of Active Power Filters in a Microgris", Journal of Advances in Computer Research, October 2017 Vol. 8, Num. 4, Page 23-35, October 2017,
- 42 Mahdi Bayati, Mehrdad Abedi, S.Hossein Hosseinian, Gevork B. Gharehpetian, "A Novel Control Strategy for Reflex-Based Electric Vehicle Charging Station with Grid Support Functionality", Journal of Energy Storage, August 2017 Vol. 12, Num. 3, Page 108-120, August 2017,

- 43 Mahdi Zolfaghari, S.Hossein Hosseinian, Hossein Askarian Abyaneh, Mehrdad Abedi, "A Model Predictive Control Based Virtual Active Power Filter Using V2G Technology", *International Journal of Electrical and Computer Engineering(IJECE)*, August 2017 Vol. 11, Num. 8, Page 857-865, August 2017,
- 44 Sadegh Ghani Varzaneh, Mehrdad Abedi, Gevork B. Gharehpetian, Amirabolfazl Suratgar, "Enhancement of Output Power Smoothing and Transient Stability of DFIG-Based Wind Energy Conversion System Using Optimized Controllers Parameters", *ELECTRIC POWER COMPONENTS AND SYSTEMS*, July 2017 Vol. 45, Num. 7, Page 726-738, July 2017,
- 45 A.Sh.G, M.R.Sh, Mehrdad Abedi, S.Hossein Hosseinian, Gholam Hossein Riahy Dehkordi, L.G, Peyman Karimyan, F.P.C, J.M.C, J.P.S.C, "A novel stochastic reserve cost allocation approach of electricity market agents in the restructured power systems", *ELECTRIC POWER SYSTEMS RESEARCH*, July 2017 Vol. 152, Num. 152, Page 223-236, July 2017,
- 46 Amir Abbaszadeh, Mehrdad Abedi, Ali Mohammadi, "Comparison of transformer modeling on riser pole arresters behavior during switching transients", *Archives of Electrical Engineering*, June 2017 Vol. 66, Num. 4, Page 717-730, June 2017,
- 47 S.A.T, Mahdi Zolfaghari, Ch.Cho, Mehrdad Abedi, M. Sh, "A New Approach for Soft Synchronization of Microgrid Using Robust Control Theory", *IEEE TRANSACTIONS ON POWER DELIVERY*, May 2017 Vol. 32, Num. 3, Page 1370-1381, May 2017,
- 48 Sadegh Ghani Varzaneh, Mehrdad Abedi, Gevork B. Gharehpetian, "A new simplified model for assessment of power variation of DFIG-based wind farm participating in frequency control system", *ELECTRIC POWER SYSTEMS RESEARCH*, March 2017 Vol. 148, Num. 0, Page 220-229, March 2017,
- 49 Hamed Nafisi, Seyed Mohammad Mousavi Agah, Hossein Askarian Abyaneh, Mehrdad Abedi, "Two-Stage Optimization Method for Energy Loss Minimization in Microgrid Based on Smart Power Management Scheme of PHEVs", *IEEE Transaction on Smart Grid*, June 2016 Vol. 7, Num. 3, Page 1268-1276, June 2016,
- 50 Hamed Nafisi, Hossein Askarian Abyaneh, Mehrdad Abedi, "Energy loss minimization using PHEVs as distributed active and reactive power resources: a convex quadratic local optimal solution", *International transaction on Electrical Energy Systems*, June 2016 Vol. 26, Num. 6, Page 1287-1302, June 2016,
- 51 Bahram Poornazaryan, Peyman Karimyan, Gevork B. Gharehpetian, Mehrdad Abedi, "Optimal Allocation and Sizing of DG Units Considering Voltage Stability, Losses and Load Variations", *INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS*, June 2016 Vol. 79, Num. 7, Page 42-52, June 2016,
- 52 Navid Ghardash Khani, Mehrdad Abedi, Gevork B. Gharehpetian, Gholam Hossein Riahy Dehkordi, "Offshore Wind Farm Power Control Using HVdc Link", *CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING-REVUE CANADIENNE DE GENIE ELECTRIQUE ET INFORMATIQUE*, April 2016 Vol. 39, Num. 2, Page 168-173, April 2016,
- 53 E.A.Farsani, S.M.M. Agah, Hossein Askarian Abyaneh, Mehrdad Abedi, S.Hossein Hosseinian, "Stochastic LMP (Locational Marginal price) calculation method in distribution systems to minimize loss and emission based on Shapley value and two-point estimate method", *ENERGY*, April 2016 Vol. 107, Num. 0, Page 396-408, April 2016,
- 54 Peyman Karimyan, Mehrdad Abedi, S.Hossein Hosseinian, Roohallah Khatami, "Stochastic approach to represent distributed energy resources in the form of a virtual power plant in energy and reserve markets", *IET GENERATION TRANSMISSION & DISTRIBUTION*, February 2016 Vol. 10, Num. 8, Page 1792-1804, February 2016,
- 55 Peyman Karimyan, Behrooz Vahidi, Mehrdad Abedi, S.M. Ahadi Sarkani, "Optimal dispatchable DG allocation in distribution network considering load growth with a mixed-PSO algorithm", *TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES*, February 2016 Vol. 0, Num. 0, Page 1-17, February 2016,
- 56 Ali Bidafar, Hans-Peter Nee, Lidong Zhang, Lennart Harnefors, Sanaz Namayantavana, Mehrdad Abedi, Mehdi Karrari, Gevork B. Gharehpetian, "Power System Stability Analysis Using Feedback Control System Modeling Including HVDC Transmission Links", *IEEE TRANSACTIONS ON POWER SYSTEMS*, January 2016 Vol. 31, Num. 1, Page 116-124, January 2016,
- 57 Bahram Poornazaryan, Mehrdad Abedi, Gevork B. Gharehpetian, Peyman Karimyan, "Application of PHEVs in Controlling Voltage and Frequency of Autonomous Microgrids", *International Journal of Smart Electrical Engineering-OPEN*, December 2015 Vol. 4, Num. 1, Page 37-43, December 2015,

- 58 Masoud Fatemi, Sajjad Abedi, Gevork B. Gharehpetian, S.Hossein Hosseinian, Mehrdad Abedi, "Introducing a Novel DC Power Flow Method with Reactive Power Considerations", IEEE TRANSACTIONS ON POWER SYSTEMS, November 2015 Vol. 30, Num. 6, Page 3012-3023, November 2015,
- 59 Ehsan Azad Farsani, Hossein Askarian Abyaneh, Mehrdad Abedi, S.Hossein Hosseinian, "Stochastic locational marginal price calculation in distribution systems using game theory and point estimate method", IET GENERATION TRANSMISSION & DISTRIBUTION, September 2015 Vol. 9, Num. 14, Page 1811-1818, September 2015,
- 60 Bahram Poornazaryan, Mehrdad Abedi, Gevork B. Gharehpetian, Shoresh Shokoohi, "Suggestion of New Voltage and Frequency Control Framework for Autonomous Operation of Microgrids", Amirkabir International Journal of Electrical and Electronics Engineering, September 2015 Vol. 45, Num. 2, Page 11-17, September 2015,
- 61 Saeed Zolfaghari Moghadam, Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, "A new method to adequate assessment of wind farms' power output", ENERGY CONVERSION AND MANAGEMENT, September 2015 Vol. 103, Num. 0, Page 585-604, September 2015,
- 62 Hesam Rahbari Magham, Erfan Maali Amiri, Behrooz Vahidi, Gevork B. Gharehpetian, Mehrdad Abedi, "Superior decoupled control of active and reactive power for three phase voltage source converters", TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, July 2015 Vol. 23, Num. 4, Page 1025-1039, July 2015,
- 63 Navid Ghardash Khani, Mehrdad Abedi, Gevork B. Gharehpetian, Gholam Hossein Riahy Dehkordi, "Analyzing the Effect of Wind Farm to Improve Transmission Line Stability in Contingencies", Indian Journal of Science and Technology, June 2015 Vol. 8, Num. 11, Page 1-6, June 2015,
- 64 Hamed Nafisi, Vahid Farahani, Hossein Askarian Abyaneh, Mehrdad Abedi, "optimal daily scheduling of reconfiguration based on minimisation of the cost of energy losses and switching operations in microgrids", IET GENERATION TRANSMISSION & DISTRIBUTION, April 2015 Vol. 9, Num. 6, Page 513-522, April 2015,
- 65 Ehsan Azad Farsani, Hossein Askarian Abyaneh, Mehrdad Abedi, S.Hossein Hosseinian, "A Novel Policy for LMP Calculation in Distribution Networks Based on Loss and Emission Reduction Allocation Using Nucleolus Theory", IEEE TRANSACTIONS ON POWER SYSTEMS, February 2015 Vol. 1, Num. 99, Page 1-10, February 2015,
- 66 Atena Darvishi, Seyed Hossein Akhavan Hejazi, Behrooz Vahidi, S.Hossein Hosseinian, Mehrdad Abedi, "Co-optimization of Energy and Reserve Considering Demand Response Program", Science International-Lahore, December 2014 Vol. 26, Num. 5, Page 1931-1940, December 2014,
- 67 Sadegh Ghani Varzaneh, Gevork B. Gharehpetian, Mehrdad Abedi, "Output Power Smoothing of Variable Speed Wind Farms Using Rotor-Inertia", ELECTRIC POWER SYSTEMS RESEARCH, November 2014 Vol. 116, Num. 11, Page 208-217, November 2014,
- 68 Hamed Nafisi, Hossein Askarian Abyaneh, Mehrdad Abedi, "Stochastic Modeling of PHEVs Penetration Impact on Distribution Transformers Daily Aging", Iranian Electric Industry Journal of Quality and productivity, September 2014 Vol. 3, Num. 5, Page 1-7, September 2014,
- 69 Amir Khaledian, Behrooz Vahidi, Mehrdad Abedi, "Harmonic distorted load control in a microgrid", JOURNAL OF APPLIED RESEARCH AND TECHNOLOGY, August 2014 Vol. 12, Num. 4, Page 792-802, August 2014,
- 70 Abolfazl Rahiminejad, Matin Rahmatian, Gevork B. Gharehpetian, Mehrdad Abedi, S.Hossein Hosseinian, Behrooz Vahidi, "Social welfare maximization in AC-DC power systems based on evolutionary algorithm: a new of HVDC links", International transaction on Electrical Energy Systems, August 2014 Vol. 0, Num. 0, Page 1-22, August 2014,
- 71 Hamed Nafisi, Hossein Askarian Abyaneh, Mehrdad Abedi, "Network Security Perspectives of Plug-in Hybrid Electric Vehicles", ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, August 2014 Vol. 39, Num. 8, Page 6197-6205, August 2014,
- 72 Vahid Safavi, Behrooz Vahidi, Mehrdad Abedi, "Optimal DG placement and sizing in distribution network with reconfiguration", Science International-Lahore, August 2014 Vol. 26, Num. 3, Page 1071-1077, August 2014,
- 73 Masoud Fatemi, Mehrdad Abedi, Behrooz Vahidi, Sajjad Abedi, Hassan Rastegar, "A novel and fast voltage estimation scheme for assessment of power system component outages", COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, August 2014 Vol. 33, Num. 4, Page 1-33, August 2014,
- 74 Mohsen Shafieirad, Masoud Shafiee, Mehrdad Abedi, "Recursive Identification of Continuous Two-Dimensional Systems in the Presence of Additive Colored Noise", IETE JOURNAL OF RESEARCH, June 2014 Vol. 60, Num. 1, Page 74-84, June 2014,

- 75 Hamed Nafisi, Mehrdad Abedi, Gevork B. Gharehpetian, "Locating PD in Transformers Through Detailed Model and Neural Networks", JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, March 2014 Vol. 65, Num. 2, Page 75-82, March 2014,
- 76 Mohsen Shafieirad, Masoud Shafiee, Mehrdad Abedi, "Estimation of Space and Time Shifts in Continuous 2D Systems Using Instrumental Variable", CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING-REVUE CANADIENNE DE GENIE ELECTRIQUE ET INFORMATIQUE, March 2014 Vol. 37, Num. 1, Page 42-47, March 2014,
- 77 Ali Bidadfar, Mehrdad Abedi, Mehdi Karrari, Gevork B. Gharehpetian, Sanaz Namayan Tavana, "Passive AC Network Supplying the Integration of CCC-HVDC and VSC-HVDC Systems", TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, March 2014 Vol. 22, Num. 2, Page 353-362, March 2014,
- 78 Faegheh Irannezhad, Behrooz Vahidi, Mehrdad Abedi, Hamed Dehghani, "Optimal design with considering distributed generation in distribution systems", Science International-Lahore, February 2014 Vol. 26, Num. 1, Page 51-56, February 2014,
- 79 Erfan Maali Amiri, Mehrdad Abedi, Hesam Rahbari Magham, Gevork B. Gharehpetian, Seyed Saeid Heidari Yazdi, Mohammad Javad Sanjari, "Robustness Evaluation of Multivariable PI Control Strategy in Autonomous Operation of Distributed Generations", International Journal of Distributed Energy Resources and Smart Grids, January 2014 Vol. 10, Num. 1, Page 15-30, January 2014,
- 80 Peyman Karimyan, Gevork B. Gharehpetian, Mehrdad Abedi, A. Gavili, "Long-Term Scheduling for Optimal Allocation and Sizing of DG Unit Considering Load Variations and DG Type", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, January 2014 Vol. 54, Num. 1, Page 277-287, January 2014,
- 81 Ali Khademi, Mehrdad Abedi, S.Hamid Fathi, Hossein Askarian Abyaneh, "A PMU based power swing identification scheme for distance protection", Iranian Electric Industry Journal of Quality and productivity, November 2013 Vol. 0, Num. 4, Page 11-17, November 2013,
- 82 Faegheh Irannezhad, Behrooz Vahidi, Mehrdad Abedi, Mohammad Rashidi, "Comparison of Using SVC and STATCOM to Provide Reactive Power for a Grid-Connected Wind Power Plant to Stabilize the Output Voltage During Startup and Fault Conditions", Science International-Lahore, November 2013 Vol. 25, Num. 4, Page 703-706, November 2013,
- 83 Sadegh Ghani Varzaneh, Mehrdad Abedi, Hassan Rastegar, "A New Fault Ride Through Approach for a DFIG Wind Farm Based on SFCL, Series Dynamic Resistor and DC-Chopper Protection", International Journal of Distributed Energy Resources and Smart Grids, November 2013 Vol. 9, Num. 4, Page 327-340, November 2013,
- 84 Mahmoud Hosseini Aliabadi, S.Hossein Hosseinian, Javad Shokrollahi Moghani, Mehrdad Abedi, "Multisided linear induction generator, Analytical modeling, 3-D finite element analysis and experimental test", ELEKTRONIKA IR ELEKTROTEHNIKA, September 2013 Vol. 19, Num. 8, Page 8-14, September 2013,
- 85 Adel Mohseni, Mehrdad Abedi, Gevork B. Gharehpetian, "Electric Power Generation Expansion Planning and Power Plant Allocation based on Improved GA and AHP", , September 2013 Vol. 3, Num. 2, Page 2-13, September 2013,
- 86 Sanaz Namayan Tavana, Gevork B. Gharehpetian, Mehrdad Abedi, Ali Bidadfar, "Novel Control Strategy for Voltage Source Converters Based on Energy Function", TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, July 2013 Vol. 21, Num. 4, Page 924-933, July 2013,
- 87 S.A, Arash Alimardani, Mehrdad Abedi, S.Hossein Hosseinian, "A Methodology for Computational Efficiency Improvement of Z-Matrix in Power System Fault Analysis Using Evolutionary Algorithms", Research Journal of Applied Sciences Engineering and technology, July 2013 Vol. 6, Num. 10, Page 1711-1719, July 2013,
- 88 Mohammad Rashidi, Mehrdad Abedi, Gevork B. Gharehpetian, "Comparison between 7-Level Cascaded and 7-Level Diode-Clamped Multilevel Inverters for Feeding Induction Motor", Research Journal of Applied Sciences Engineering and technology, June 2013 Vol. 6, Num. 6, Page 936-942, June 2013,
- 89 Navid Ghardash Khani, Behrooz Vahidi, Mehrdad Abedi, "A new approach to improve distribution power grids stability by using ultra capacitor beside DSTATCOM", Science International-Lahore, January 2013 Vol. 25, Num. 1, Page 41-47, January 2013,
- 90 Mohsen Shafieirad, Masoud Shafiee, Mehrdad Abedi, "Identification of Linear Partial Difference Equations with Constant Coefficients", Journal of Basic and Applied Scientific Research, January 2013 Vol. 3, Num. 1, Page 655-660, January 2013,

- 91 Poria Hasan Por Divshali, S.Hossein Hosseinian, Mehrdad Abedi, "Enhancing small signal stability and reactive power sharing accuracy in autonomous microgrids by a new decentralized reactive power controller", *ELECTRIC POWER COMPONENTS AND SYSTEMS*, November 2012 Vol. 40, Num. 16, Page 1820-1841, November 2012,
- 92 Poria Hasan Por Divshali, Arash Alimardani, S.Hossein Hosseinian, Mehrdad Abedi, "Decentralized Cooperative Control Strategy of Microsources for Stabilizing Autonomous VSC-Based Microgrid", *IEEE TRANSACTIONS ON POWER SYSTEMS*, October 2012 Vol. 27, Num. 4, Page 1949-1959, October 2012,
- 93 H. A. Hejazi, Ali Roghani Araghi, Behrooz Vahidi, S.Hossein Hosseinian, Mehrdad Abedi, H. Mohsenian-Rad, "Independent Distributed Generation Planning to Profit Both Utility and DG Investors", *IEEE TRANSACTIONS ON POWER SYSTEMS*, October 2012 Vol. 28, Num. 1, Page 1-9, October 2012,
- 94 Poria Hasan Por Divshali, S.Hossein Hosseinian, Mehrdad Abedi, "A Novel multi stage fuel cost minimization in a VSC based microgrid considering stabilityfrequency and voltage constraints", *IEEE TRANSACTIONS ON POWER SYSTEMS*, October 2012 Vol. 9, Num. 9999, Page 1-9, October 2012,
- 95 Mohamad Hasan Zamani Foroshani, S.Hamid Fathi, Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, Nazanin Abdolghany, "Improving Transient Stability of Grid-Connected Squirrel-Cage Induction Generators by Plugging Mode Operation", *IEEE TRANSACTIONS ON ENERGY CONVERSION*, September 2012 Vol. 27, Num. 3, Page 707-714, September 2012,
- 96 M.H. Tosifian, J. Nazar Zadeh, Mehrdad Abedi, "A new Dynamical Model of Linear Induction Machines", *ELECTRIC POWER COMPONENTS AND SYSTEMS*, April 2012 Vol. 40, Num. 40, Page 1319-1338, April 2012,
- 97 Hamed Nafisi, Mehrdad Abedi, Gevork B. Gharehpetian, "Partial Discharge Localization using Transformer Detailed Model and Bayesian and FAM Neural Networks", *Iranian Electric Industry Journal of Quality and productivity*, March 2012 Vol. 1, Num. 1, Page 46-56, March 2012,
- 98 Poria Hasan Por Divshali, S.Hossein Hosseinian, Mehrdad Abedi, Arash Alimardani, "Small signal stability and load sharing improvement of autonomous microgrids using auxiliary loop", *ELECTRIC POWER COMPONENTS AND SYSTEMS*, March 2012 Vol. 0, Num. 0, Page 648-671, March 2012,
- 99 Seyed Mohammad Shariatmadar, Jalal Nazarzadeh, Mehrdad Abedi, "Non-Linear Analytical Extended Poincares Model of Phase Saturated Self Excited Series Connected Synchronous Generator", *PRZEGLAD ELEKTROTECHNICZNY*, March 2012 Vol. 88, Num. 0, Page 126-134, March 2012,
- 100 Amir Khaledian, Babak Abdi, Javad Shokrollahi Moghani, Mehrdad Abedi, "An Overview to soft switching converters with high voltage gain", *Advanced Materials Research (AMR)*, February 2012 Vol. 462, Num. 1, Page 353-357, February 2012,
- 101 Poria Hasan Por Divshali, S.Hossein Hosseinian, Mehrdad Abedi, "Decentralized VSC-Based Microgrids General Power Flow", *INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE*, October 2011 Vol. 6, Num. 7, Page 3041-3050, October 2011,
- 102 Ahmad Javid Ghanizadeh, Ghassem Mokhtari, Mehrdad Abedi, Gevork B. Gharehpetian, "Optimal Power Flow Based on Imperialist Competitive Algorithm", *INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE*, June 2011 Vol. 6, Num. 4, Page 1847-1852, June 2011,
- 103 Reza Salehi Sharafdarkolaee, Naeem Farokhniha, Mehrdad Abedi, S.Hamid Fathi, "Elimination of Low Order Harmonics in Multilevel Inverters Using Genetic Algorithm", *JOURNAL OF POWER ELECTRONICS*, March 2011 Vol. 11, Num. 2, Page 132-139, March 2011,
- 104 Poria Hasan Por Divshali, S.Hossein Hosseinian, , Mehrdad Abedi, "Application of bifurcation theory in dynamic security constrained optimal dispatch in deregulated power system", *ELECTRICAL ENGINEERING*, March 2011 Vol. 0, Num. 0, Page 0-0, March 2011,
- 105 Hamed Nafisi, Mehrdad Abedi, Gevork B. Gharehpetian, "Comparison of Bayesian and FuzzyARTmap Networks in Transformers PD Localization", *INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE*, March 2011 Vol. 6, Num. 2, Page 1051-1059, March 2011,
- 106 Hamidreza Baghaee Kashi, Mehrdad Abedi, "Calculation of weighting factors of static security indices used in contingency ranking of power systems based on Fuzzy logic and Analytical Hierarchy process", *INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS*, January 2011 Vol. 33, Num. 1, Page 855-860, January 2011,

- 107 Firoozeh Rameshkhah, Mehrdad Abedi, S.Hossein Hosseinian, "Comparison of shuffled frog leaping algorithm and PSO in data clustering with constraint for grouping voltage control areas in power systems", EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, December 2010 Vol. 1, Num. 1, Page 1-22, December 2010,
- 108 Behrooz Vahidi, Reza Salehi Sharafdarkolaee, Naeem Farokhniha, Mehrdad Abedi, "Harmonic Elimination and Optimization of Stepped Voltage of Multilevel Inverter by Bacterial Foraging Algorithm", Journal of Electrical Engineering and Technology, November 2010 Vol. 5, Num. 4, Page 0-0, November 2010,
- 109 Mohammad Nazari, Mehrdad Abedi, Gevork B. Gharehpetian, Hamidreza Toodeji, "Photovoltaic Array, Fuel Cell and Electrolyzer Connection to Grid by Direct Non-linear Controlled H-Bridge Multilevel Inverter", International Review of Automatic Control (IREACO), November 2010 Vol. 3, Num. 6, Page 633-640, November 2010,
- 110 Seyed Hossein Akhavan Hejazi, Hamidreza Mohebbati, [en-name N/A], S.Hossein Hosseinian, Mehrdad Abedi, "Differential evolution algorithm for security-constrained energy and reserve optimization considering credible contingencies", IEEE transactions on power systems, November 2010 Vol. 0, Num. 0, Page 0-0, November 2010,
- 111 Pirooz Javanbakht, Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, "The Enhancement of Transient Stability of a Wind Farm in a Weak Network Using SVC and OLTC", International journal of Distributed Energy Resources, October 2010 Vol. 6, Num. 4, Page 325-341, October 2010,
- 112 S.Hossein Hosseinian, Sajad Najafi Ravadanagh, Sajad Najafi Ravadanagh, Mehrdad Abedi, "A novel strategy for stability evaluation of islanded power systems", Iranian Journal of Electrical and Electronic Engineering, October 2010 Vol. 9, Num. 1, Page 43-51, October 2010,
- 113 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, "Distributed resources and DC distribution system combination for high power quality", International Journal of Electrical Power and Energy Systems, September 2010 Vol. 32, Num. 7, Page 0-0, September 2010,
- 114 Firoozeh Rameshkhah, Mehrdad Abedi, S.Hossein Hosseinian, "Clustering of voltage control areas in power system using shuffled frog-leaping algorithm", Electrical Engineering-Springer, September 2010 Vol. 0, Num. 0, Page 0-0, September 2010,
- 115 Zeinab Ghofrani Jahromi, Mehrdad Abedi, Gevork B. Gharehpetian, Mohsen Masjed-Jamei, "Contingency Ranking Using Analytical Hierarchy Process for Calculating Bus Weighting Factors", International Journal of Power and Energy Systems, IJPES, August 2010 Vol. 30, Num. 2, Page 86-93, August 2010,
- 116 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, "Combined Operation of AC and DC Distribution System with Distributed Generation Units", Journal of Electrical Engineering-Elektrotechnicky Casopis, August 2010 Vol. 61, Num. 4, Page 0-0, August 2010,
- 117 Sanaz Namayan Tavana, Mehrdad Abedi, Mehdi Karrari, Ali Bidadfar, "UPFC Nonlinear Control Approach Using Converters Energy Function", International Review of Automatic Control (IREACO), May 2010 Vol. 3, Num. 3, Page 264-269, May 2010,
- 118 Fatemeh Jahanbani Ardakani, Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, "Optimal sizing of a stand-alone hybrid wind/PV/battery system considering reliability indices accompanied by error propagation assessment", International Review of Electrical Engineering (IREE), April 2010 Vol. 5, Num. 2, Page 0-0, April 2010,
- 119 Hamidreza Baghaee Kashi, Mehrdad Abedi, "Application of Fuzzy Logic Based Analytical Hierarchy Process to Choose Weithing Factors for Contingency Ranking in Electric Power Systems", International Review of Electrical Engineering (IREE), March 2010 Vol. 5, Num. 2, Page 0-0, March 2010,
- 120 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, "Premium Power Quality Using Combination of Microturbine Unit and DC Distribution System", Journal of Electrical Engineering & Technology, March 2010 Vol. 5, Num. 1, Page 0-0, March 2010,
- 121 Sajad Najafi, S.Hossein Hosseinian, Mehrdad Abedi, "Proper splitting of Interconnected power systems", IEEEJ Transaction on Electrical and Electronic Engineering, February 2010 Vol. 5, Num. 2, Page 0-0, February 2010,
- 122 Reza Noroozian, Gevork B. Gharehpetian, Mehrdad Abedi, Mishel Mahmoodi, "Grid -Tied and Stand -Alone Operation of Distributed Generation Modules Aggregated by Cascaded Boost Converters", , January 2010 Vol. 0, Num. 1, Page 0-0, January 2010,
- 123 Mehrdad Abedi, "An Application of Fuzzy Tuning and TCPS for Enhancement of Dynamic Performance of Two Area Reheat Thermal System", International Review of Automatic Control (IREACO), December 2009 Vol. 2, Num. 6, Page 0-0, December 2009,

- 124 Mehrdad Abedi, "Simulation Studies for Permanent Magnet Synchronous Motors Position Control in Direct Drive Robotic Application", International Review of Automatic Control (IREACO), December 2009 Vol. 2, Num. 6, Page 0-0, December 2009,
- 125 Behzad Farhangi Rad, Mehrdad Abedi, "digital computer comparative studies for optimal load shedding in electric power systems using intelligent algorithms", , October 2009 Vol. , Num. 4, Page 0-0, October 2009,
- 126 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, Seyyed Hosein Hoseini, "On-Grid and Off-Grid Operation of Multi-Input Single-Output DC/DC Converter Based Fuel Cell Generation System", , June 2009 Vol. , Num. 2, Page 0-0, June 2009,
- 127 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, Seyyed Hosein Hoseini, "A Novel Control Strategy for Load Converter of DC Isolated Distribution System Under Unbalanced Loading Conditions", , June 2009 Vol. , Num. 10, Page 0-0, June 2009,
- 128 Sajad Najafi, S.Hossein Hosseinian, Mehrdad Abedi, [en-name N/A], [en-name N/A], "A Framework for Optimal Planning in Large Distribution Networks", , May 2009 Vol. , Num. 2, Page 0-0, May 2009,
- 129 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, Seyyed Hosein Hoseini, "Combined operation of DC isolated distribution and PV systems for supplying unbalanced AC loads", , March 2009 Vol. , Num. 34, Page 0-0, March 2009,
- 130 Mohammad Monfared, [en-name N/A], Mehrdad Abedi, "Online Tuning of Genetic Based Pid Controller in Lec Systems Using RBF Neural Network and Vstlf Technique", , October 2008 Vol. , Num. 4, Page 0-0, October 2008,
- 131 Pirooz Javanbakht, Mehrdad Abedi, "the Enhancement of Dynamic Performance of Casaded Induction Motors Using SVC and D-STATCOM", , June 2008 Vol. , Num. 2, Page 0-0, June 2008,
- 132 Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, T.R Blackburn, "Modeling and Detection of Transformer Internal Incipient Fault During Impulse Test", , February 2008 Vol. , Num. 1, Page 0-0, February 2008,
- 133 Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, "Short Term Wind Speed Forecasting for Wind Turbine Applications Using Linear Prediction Method", Renewable Energy, January 2008 Vol. , Num. 33, Page 0-0, January 2008,
- 134 Mahdi Salay Naderi, Gevork B. Gharehpetian, T.R Blackburn, Mehrdad Abedi, "Pattern Classification of Internal Incipient Faults During Impulse Tests Using Continuous Wavelet Analysis", , December 2007 Vol. 0, Num. 90, Page 0-0, December 2007,
- 135 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, Seyyed Hosein Hoseini, "Operation of Stand Alone PV Generating System for Supplying Unbalanced AC Loads", , July 2007 Vol. , Num. 0, Page 0-0, July 2007,
- 136 Sajad Najafi, S.Hossein Hosseinian, Mehrdad Abedi, "A New Method For Optimal Placement of Statcom Using Genetic Algorithms and Continuation Power Flow", , May 2006 Vol. 0, Num. 0, Page 0-0, May 2006,
- 137 Behrooz Vahidi, Mohammad Javad Alborzi, Hassan Aghaeinia, Mehrdad Abedi, "Corona Detection on Surfaces of Insulators using Ultrasound Sensors and Fibre -Optic Transmission Systems", , October 2005 Vol. , Num. 15, Page 0-0, October 2005,
- 138 Mehrdad Rostami, S.Hamid Fathi, Mehrdad Abedi, "Switch time bifurcation elimination analysis in SVC plants", , May 2005 Vol. , Num. 2, Page 0-0, May 2005,
- 139 Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, K. Feser, "An accurate method for estimation of series and parallel resistance in detailed model of transformer winding using impulse test results", , September 2004 Vol. 0, Num. 86, Page 0-0, September 2004,
- 140 Mehei Nafar, Mehrdad Abedi, Gevork B. Gharehpetian, Samad Taghipour Boroujeni, Behrang Yousef Pour, "Locating partial discharge in transformer by wavelet", , August 2004 Vol. 0, Num. 0, Page 0-0, August 2004,
- 141 Esfandiar Ekhtiyari Kasnaviyeh Yazd, Majid Safar Johari, Mehrdad Abedi, "Digital control of ambient relative humidity for the measurement of electrical resistance of cashmere fiber", , December 2002 Vol. , Num. 27, Page 0-0, December 2002,

- 142 Behrooz Tousi, Gevork B. Gharehpetian, Mehrdad Abedi, Javad Shokrollahi Moghani, "Finite element technique for calculating the AC losses of transformer windings at high frequencies", , September 2002 Vol. 0, Num. 51, Page 0-0, September 2002,
- 143 Esfandiar Ekhtiyari Kasnaviyeh Yazd, Majid Safar Johari, Mehrdad Abedi, "The effect of percentage of remaining hair breed and ambient relative humidity on electrical resistance of cashmere fiber", , July 2002 Vol. , Num. , Page 0-0, July 2002,
- 144 Mohsen Ghaffarpour Jahromi, Mehrdad Abedi, Hassan Rastegar, "Fuzzy logic based static VAR compensators for enhancing the performance of AC and DC motor loads", , December 2001 Vol. 0, Num. 48, Page 0-0, December 2001,
- 145 Hassan Rastegar, Mehrdad Abedi, Mohammad Bagher Menhaj, S.Hamid Fathi, "Fuzzy logic based controller and its application to SVC for an industrial power system", , December 2001 Vol. , Num. 25, Page 0-0, December 2001,
- 146 Ali Karami, Mehrdad Abedi, Mohammad Bagher Menhaj, "On-line dynamic security assessment using neural networks and the transient energy function method", , November 2001 Vol. , Num. , Page 0-0, November 2001,
- 147 Hassan Rastegar, Mehrdad Abedi, Mohammad Bagher Menhaj, S.Hamid Fathi, "A novel sensorless fuzzy controller with application to static var compensators in industrial power systems", , September 2000 Vol. 0, Num. 43, Page 0-0, September 2000,
- 148 Ali Karami, Mehrdad Abedi, Mohammad Bagher Menhaj, Dr Galiana, "On_line dynamic security assessment in electric power systems using artificial neural network", , March 2000 Vol. 0, Num. 42, Page 0-0, March 2000,
- 149 Asgar Karami, Mehrdad Abedi, Mohammad Bagher Menhaj, "Dynamic security assessment using neural networks", , November 1999 Vol. 0, Num. 0, Page 0-0, November 1999,
- 150 Hassan Rastegar, Mehrdad Abedi, Mohammad Bagher Menhaj, S.Hamid Fathi, "Fuzzy Logic Based Static var compensator for enhancing the performance of synchronous and asynchronous motor loads", , June 1999 Vol. , Num. 50, Page 0-0, June 1999,
- 151 Mehrdad Abedi, [en-name N/A], [en-name N/A], [en-name N/A], "Controller design using _synthesis for static var compensator to enhance the voltage profile for remote induction motor loads", , July 1998 Vol. , Num. 46, Page 0-0, July 1998,
- 152 Behzad Kordi, Rouzbeh Moini Mazandaran, Mehrdad Abedi, "Evaluation of LEMP effects on complex wire structures located above a perfectly conducting ground using electric field integral equation in time domain", , May 1998 Vol. , Num. 2, Page 0-0, May 1998,
- 153 Mohammad Bagher Menhaj, Mehrdad Abedi, Jalil Shahrouzi, "Design of a neuro_pss for synchronous generator", , December 1995 Vol. 0, Num. 29, Page 0-0, December 1995,
- 154 Mehrdad Abedi, Amir Mehdy Moosavi, "General comprehensive models for simulation of earth contributed faults in synchronous generator using phase coordinate theory", , March 1994 Vol. , Num. , Page 0-0, March 1994,
- 155 Mehrdad Abedi, "Evaluation of the transient performance of cascade induction motors", , March 1994 Vol. , Num. 2, Page 0-0, March 1994,

Conference Papers

Portal Records

- 1 Mohammad Bagher Gharahi Ghehi, Meysam Pashaei, Mehrdad Abedi, Hamed Nafisi, "A Novel Approach for Percentage Differential Protection Improvement in CT Saturation ", 15th International Conference on Protection and Automation of Power Systems (IPAPS2021), December 2020

- 2 Mojtaba Mohseni, Mehrdad Abedi, E.H.F, A.S.A, Hossein Jafari, "Optimal Power and Heat Scheduling of Microgrids under Renewable Generation Uncertainties ", (2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES, September 2020
- 3 Majid Dehghani, Mehdi Bagheri, Venera Nurmanova, Mohammad Taghipour, Peyman Karimyan, Gevork B. Gharehpetian, Mehrdad Abedi, "An Improved PSO-GA based Fuzzy Controller of STATCOM for Cascaded Induction Motors of Drilling System ", IEEE 20th Conference on Environment and Electrical Engineering (IEEE EEEIC 2020) and 4th Industrial and Commercial Power Systems Europe (I&CPS), June 2020
- 4 Masoumeh Ahrabi, Mehrdad Abedi, Hamed Nafisi, Mohammad Amin Mirzaei, Behnam Mohammadi-Ivatloo, Mousa Marzband, "Robust Transmission-Constrained AC unit Commitment in Presence of Smart Technologies ", Smart Grid Conference 2019 (SGC2019), December 2019
- 5 Mohammadreza Saidabadi, Mehrdad Abedi, Hamed Nafisi, Amir Khorsandi, "Small signal stability improvement via coordination of PSS's and SOFC power conditioner by PSO algorithm ", 34th International Power System Conference, December 2019
- 6 Iraj Pourkeivani, Mehrdad Abedi, Shahram Montaser Kouhsari, Reza Ghaniabadi, "A Novel Index for Evaluation of voltage instability ", "The 14th international conference on protection and automation of power system", December 2019
- 7 Mahdi Zolfaghari, Gevork B. Gharehpetian, Mehrdad Abedi, "A Sliding Mode-based Robust Distance Protection Scheme for AC Transmission Lines Considering HVDC-Connected Wind Farms ", 34-th International Power System Conference, October 2019
- 8 Mahdi Zolfaghari, Mehrdad Abedi, Gevork B. Gharehpetian, "Power Exchange Control of Clusters of Multiple AC and DC Microgrids Interconnected by UIPC in Hybrid Microgrids ", 24th Electrical Power Distribution Conference, June 2019
- 9 Saeed Nadrifar, Mehrdad Abedi, Iraj Pourkeivani, "Comparative Relay Studies in Distribution Networks ", 24th Electrical Power Distribution Conference, April 2019
- 10 Hossein Shahinzadeh, Jalal Moradi, Gevork B. Gharehpetian, Hamed Nafisi, Mehrdad Abedi, "Internet of Energy (IoE) in Smart Power Systems ", 2019 Conference on Knowledge-Based Engineering and Innovation, February 2019
- 11 Hossein Shahinzadeh, Jalal Moradi, Gevork B. Gharehpetian, Hamed Nafisi, Mehrdad Abedi, "IoT Architecture for Smart Grids ", 2019 International Conference on Protection and Automation of Power System (IPAPS), January 2019
- 12 Pooriya Motevaker, Behrad Ghanbari, Mehrdad Abedi, S.Hossein Hosseinian, "Demand-Side Energy Management in an Administrative Building by Considering Generation Optimization ", 22018 SMART GRID CONFERENCE, UNIVERSITY OF KURDISTAN, November 2018
- 13 Nastaran Gholizadeh, Mehrdad Abedi, Hamed Nafisi, Hossein Askarian Abyaneh, Mousa Marzband, "Optimization of Day Ahead Distributed Intelligent Decision-Making for a Multi-Microgrid System ", Smart Grid Conference (SGC2018), November 2018
- 14 Milad Sadat-Mohammadi, Morteza Nazari-Heris, Hamed Nafisi, Mehrdad Abedi, "A Comprehensive Financial Analysis for Dual-Axis Sun Tracking System in Iran Photovoltaic Panels ", Smart Grid Conference (SGC2018), November 2018
- 15 Hossein Shahinzadeh, J. Moradi, Gevork B. Gharehpetian, S.Hamid Fathi, Mehrdad Abedi, "Optimal Energy Scheduling for a Microgrid Encompassing DRRs and Energy Hub Paradigm Subject to Alleviate Emission and Operational Costs ", Smart Grid Conference, SGC 2018, November 2018
- 16 Pooriya Motevaker, Mehrdad Abedi, Gevork B. Gharehpetian, "Multi-objective Optimal Design and Operation of Autonomous Hybrid Energy System Considering Uncertainties ", Smart Grid Conference, SGC 2018, November 2018
- 17 Hossein Shahinzadeh, J. Moradi, Gevork B. Gharehpetian, Mehrdad Abedi, S.Hossein Hosseinian, "Multi-Objective Scheduling of CHP-Based Microgrids with Cooperation of Thermal and Electrical Storage Units in Restructured Environment ", Smart Grid Conference, SGC 2018, November 2018
- 18 Hossein Shahinzadeh, J.. Moradi, Gevork B. Gharehpetian, S.Hamid Fathi, Mehrdad Abedi, "Green Power Island, a Blue Battery Concept for Energy Management of High Penetration of Renewable Energy Sources with Techno-Economic and Environmental Considerations ", Smart Grid Conference, SGC 2018, November 2018

- 19 Kasra Khalili, Iraj Pourkeivani, Mehrdad Abedi, "Reliability Enhancement in Distribution Network Using Unbounded Microgrid ", 33INTERNATIONAL POWER SYSTEM CONFERENCE, October 2018
- 20 Majid Dehghani, Peyman Karimyan, Mehrdad Abedi, H.K.P, "Dynamic Behavior Control of Induction Motor with STATCOM ", 2nd IEEE International Conference on power Electronics, Intelligent Control and Energy Systems (ICPEICES-2018), August 2018
- 21 Mehrdad Mallaki, Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, "Improvement of Sensitivity-Based Nonlinear Solver for Bidding Strategy Problem of Electricity Markets ", 26th Iranian Conference on Electrical Engineering, ICEE 2018, May 2018
- 22 Mehrdad Mallaki, Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, "Improvement of Sensitivity-Based Nonlinear Solver for Bidding Strategy Problem of Electricity Markets ", The 26th Iranian Conference on Electrical Engineering (ICEE), May 2018
- 23 Pooriya Motevaker, Mehrdad Abedi, "Novel Strategy for Energy Management in Micro grid ", Iranian Conference on Renewable Energy and Distributed Generation, March 2018
- 24 Behrad Ghanbari, S.Hossein Hosseinian, Mehrdad Abedi, Pooriya Motevaker, "Cooling Demand Response based on Direct Load Control (DLC) in state offices in Tehran ", (The 6th Iranian Conference on Renewable Energy and Distributed Generation (ICREDG2018, March 2018
- 25 Mohsen Molaali, Mehrdad Abedi, "Introduction of a new structure for fault current limiter with the determination of the related parameters ", National conference on new technologies in electrical and computer engineering, January 2018
- 26 Seyyed Mohammad Sadegh Ghiasi, M.F, Mohammad Hassan Nazari, Mehrdad Abedi, P.S.B, "Strategy for Electricity Market in Active Distribution Network ", 6th REGIONAL CONFERENCE ON ELECTRICITY DISTRIBUTION, January 2018
- 27 Mohsen Molaali, Mehrdad Abedi, "National conference on new technologies in electrical and computer engineering ", Restoration of distribution systems considering distributed generations and tie switches, January 2018
- 28 Mohsen Molaali, Mehrdad Abedi, "Fault Current Reduction Using Fault Limiting Current ", 5th International Conference Electrical engineering and Computer, December 2017
- 29 Pooriya Motevaker, Behrad Ghanbari, Hamed Nafisi, Mehrdad Abedi, S.Hossein Hosseinian, "A Novel Approach for Improving Voltage Profile in low Voltage Networks with High Solar Panel Penetration Level by Using Flexible Loads ", 2017 Smart Grids Conference, December 2017
- 30 Mohsen Molaali, Mehrdad Abedi, "Harmonic Reduction Using Active Filter Associated with Hysteresis ", 5th International Conference Electrical engineering and Computer, December 2017
- 31 Kasra Khalili, Pooriya Motevaker, Mehrdad Abedi, "New algorithm for over current relay optimization ", Smart Grid Conference 2017, December 2017
- 32 Kasra Khalili, Pooriya Motevaker, Mehrdad Abedi, "New algoritm for optimal economic Dispatch ", 2017 Smart Grid Conference, December 2017
- 33 Mohammadreza Nassaj, Saman Mehrnia, Hassan Rastegar, Mehrdad Abedi, "Improving the Responce transient and dynamic stability using voltage based droop control in an islanded microgrid equipped with energy storage ", Smart Grids Conference 2017, December 2017
- 34 Mohammadsaeed Mahdavi, Saman Mehrnia, Gevork B. Gharehpetian, Mehrdad Abedi, "Online Pre-Fault FACTS Tuning in Smart Grid for Transient Stability Enhancement Based on CCT ", Smart Grid Conference, SGC 2017, December 2017
- 35 Kasra Khalili, Mehrdad Abedi, Iraj Pourkeivani, "Self healing in micro grid ", 2017 Smart Grid Conference, December 2017
- 36 Mohsen Molaali, S.Hossein Hosseinian, Mehrdad Abedi, "Cooperantion between hysteresis control of active filter elininat harmonics and compersate reactive power and solar cell ", The Fourth international Conferencein in Engineering and novation, December 2017
- 37 Mahdi Zolfaghari, Ali Asghar Khodadoost Arani, Mehrdad Abedi, Gevork B. Gharehpetian, "Optimal Fractional Order PID Controller Design for DFIGs in Wind Turbine Systems ", Fifth Iran Wind Energy Conference, November 2017

- 38 Saman Mehrnia, Mohammadreza Nassaj, Mehrdad Abedi, Hassan Rastegar, "Voltage-Based Control of Energy Storages Using Fuzzy Control In An Islanded Microgrid Containing Distributed Generation Sources And Loads ", 32ND Power System Conference, October 2017
- 39 Behrad Ghanbari, Pooriya Motevaker, Hamed Nafisi, Mehrdad Abedi, S.Hossein Hosseinian, "- ", 32ND INTERNATIONAL POWER SYSTEM CONFERENCE, October 2017
- 40 P.S.B, Seyyed Mohammad Sadegh Ghiasi, Mohammad Hassan Nazari, Mehrdad Abedi, "Power Quality Evaluation in Khorestan Province ", 32ND International Power System Conference, October 2017
- 41 Mohammadali Hayerikhiyavi, Mehrdad Abedi, Milad Sadat-Mohammadi, Hossein Askarian Abyaneh, "Inertia Measurment in Iran Grid ", 32ND Power System Conference, October 2017
- 42 Mohsen Molaali, Mehrdad Abedi, Peyman Karimyan, "Novel Algorithm for Restoration of Sistribution Systems ", 32th International Power System, October 2017
- 43 Saman Mehrnia, Mohammadreza Nassaj, Mehrdad Abedi, Hassan Rastegar, "Voltage-Based Control of Energy Storages Using Fuzzy Control In An Islanded Microgrid Containing Distributed Generation Sources And Loads ", 32ND Power System Conference, October 2017
- 44 Behrad Ghanbari, Pooriya Motevaker, S.Hossein Hosseinian, Mehrdad Abedi, "Long-term energy consumption forecasting with the use of Artificial Neural Network and studying the effects of demand side management scenarios in Iran ", 32ND International Power System Conference, October 2017
- 45 Behrad Ghanbari, Pooriya Motevaker, Gevork B. Gharehpetian, Mehrdad Abedi, S.Hossein Hosseinian, "PVs Penetration Level Improvement Using Flexible Loads for Residential Buildings ", 1st International Conference on Fundamental research in Electrical Engineering, ICEEC 2017, July 2017
- 46 Pooriya Motevaker, Mehrdad Abedi, Sadegh Ghani Varzaneh, "Load Frequency Control in Dereguated Power System ", International Conference fundamental research on electrical engineering, July 2017
- 47 Mohammadreza Nassaj, Saman Mehrnia, S.Hossein Hosseinian, Hassan Rastegar, Mehrdad Abedi, "Utilization of Renewable Resources for Scheduling the Hourly production in Day-ahead Markets and its Effect on the Nodal Price ", (25th Iranian conference on electrical engineering (ICEE2017, May 2017
- 48 Mahdi Bayati, Mehrdad Abedi, Gevork B. Gharehpetian, "A New Electric Vehicle Charging Station Based on Pulse Current Charging Method ", 25th Iranian Conference on Electrical Engineering, May 2017
- 49 Majid Dehghani, Peyman Karimyan, Mehrdad Abedi, Gevork B. Gharehpetian, "Multi-Machine Power System Dynamic Stability Improvement Using Fuzzy Controlled STATCOM and PSS ", 25th Iranian Conference on Electrical Engineering, May 2017
- 50 Mahdi Bayati, Mehrdad Abedi, Gevork B. Gharehpetian, "A New Control System for Grid-Feeding Power Converters of Solid Oxide Fuel Cells ", 25th Iranian Conference on Electrical Engineering, May 2017
- 51 Mohammadreza Nassaj, Saman Mehrnia, Gevork B. Gharehpetian, Hassan Rastegar, Mehrdad Abedi, "Connecting Renewable Resources in Response to Demand for Day Ahead Market Hourly Planning and Its Effect on Consumers' Bus Nodal Price ", 22nd Electric Power Distribution Conference, EPDC 2017, May 2017
- 52 Mohsen Molaali, Mehrdad Abedi, Peyman Karimyan, "Restoration in Distribution ", 22nd Distribution Conference, April 2017
- 53 Saman Mehrnia, Mohammadreza Nassaj, S.Hossein Hosseinian, Mehrdad Abedi, Hassan Rastegar, "Control of Tidal Turbine Combined With DFIG in order to Compensate Nonlinear Load ", 22nd Electrical Power Distribution Conferenc, April 2017
- 54 Ali Reza Lorestani, Farshad Babanabadi, Mohammad Hassan Nazari, Mehrdad Abedi, M.M. Ardehali,Phd,Pe, "Reconfiguration and optimal placing of DG in Distribution system ", 5th REGIONAL CONFERENCE ON ELECTRICITY DISTRIBUTION, January 2017
- 55 Mahdi Zolfaghari, Ali Asghar Khodadoost Arani, Gevork B. Gharehpetian, Mehrdad Abedi, "A Fractional Order Proportional-Integral Controller Design to Improve Load Sharing between DGs in Microgrid ", Smart Grid Conference, SGC 2016, December 2016
- 56 Majid Dehghani, Peyman Karimyan, Mehrdad Abedi, Gevork B. Gharehpetian, "The Enhancement of DFIG Turbine Dynamics Using DC Link and DVR in Smart Grids ", Smart Grid Conference, Kerman, 95, December 2016

- 57 Majid Dehghani, Peyman Karimyan, Mehrdad Abedi, "Comparative Algorithm of Enhancing Dynamic Stability of Multi Machine System ", International Conference on Novelty in Electrical and Computer Engineering, November 2016
- 58 Mostafa Mohammadian, Ali Reza Lorestani, Davoud Faramarzi, S.Hossein Hosseini, Mehrdad Abedi, "A new hybrid algorithm based on Particle Swarm Optimization and Differential Evolution for Unit Commitment Problem ", PSC 2016, October 2016
- 59 Mohammad Hosein Fazaeli, Mehrdad Abedi, Hossein Askarian Abyaneh, "Frequency Restoration with Frequency Relay ", (Power System Conference (PSC 2016, October 2016
- 60 Mahdi Zolfaghari, Hossein Bahramian Habil, Hossein Askarian Abyaneh, Mehrdad Abedi, "- Load Sharing Improvement Between Parallel-Connected Inverter based DGs Using a GA based Optimization Control Strategy in Microgrids ", IEEE PES Asia Pacific Power and Energy Engineering Conference (APPEEC 2016), October 2016
- 61 Mehdi Mosstafayi, Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, "zero Energy house in Binalood ", (Power System Conference (PSC 2016, October 2016
- 62 Khadije Moosavi, Mehrdad Abedi, Hossein Askarian Abyaneh, "A Power Sharing Management Strategy for Distributed Generation in Microgrid Networks ", International Conference on Electrical Engineering, June 2016
- 63 Bahram Poornazaryan, Shooreh.Shokoohi, Mehrdad Abedi, Gevork B. Gharehpetian, Peyman Karimyan, "PHEVs Participation in Voltage and Frequency Control of Autonomous Microgrids ", International Conference on Electrical Engineering, June 2016
- 64 Farshad Babanabadi, Mehrdad Abedi, "Optimal DG placement in distribution networks using tabu search algorithm ", International Conference on Electrical Engineering, June 2016
- 65 Omid Heydari, Mehrdad Abedi, Hossein Askarian Abyaneh, "Charge and Discharge planning for Energy Storage Systems ", 21th Distribution Network Conference, May 2016
- 66 Sina Vahid, Peyman Karimyan, Mehrdad Abedi, S.Hamid Fathi, Hassan Rastegar, "Solution to economic dispatch problem with valve-point loading effect and in presence of wind power plant by using novel NRPSO+ algorithm ", First International Conference on New Research Achievements in Electrical and Computer Engineering, May 2016
- 67 Pouriya Ahmadi, Farshad Babanabadi, S.Hossein Hosseini, Mehrdad Abedi, "Dc bus voltage stabilization using super capacitor and battery ", 1st International Conference on New Research Achievements in Electrical & Computer Engineering, May 2016
- 68 Majid Dehghani, Mehrdad Abedi, Gevork B. Gharehpetian, "Drilling Systems Modeling and Simulation and Effect of Parallel Compensation on Their Performance ", 1st International Conference on New Research Achievements in Electrical and Computer Engineering (ICNRAECE), May 2016
- 69 Omid Heydari, Mehrdad Abedi, Hossein Askarian Abyaneh, "000 ", 21st Electrical Power Distribution National Conference, April 2016
- 70 Hamidreza Qasemzadeh, Gevork B. Gharehpetian, Mehrdad Abedi, Peyman Karimyan, "A New Method for Optimization of Reconfiguration and DG Allocation in Distribution Network ", 4th Iranian Conference on Renewable Energies and Distributed Generation (ICREDG 2016), March 2016
- 71 Mahdi Zolfaghari, Khadije Moosavi, Mehrdad Abedi, H.R. Khoei, "Twelve Sector Based Direct Torque and Flux Control of Induction Motor ", 4th International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering (ICE2016), 4-4 February 2016, Dubai, Emirates, February 2016
- 72 Saeed Shahverdi, Mehrdad Abedi, Firoozeh Rameshkhah, "State Estimation in Distribution Networks ", 3rd National Conference and First International Conference on Applied Electrical, Mechanical and Mechatronics, February 2016
- 73 Mohammad Sadegh Eftekhari, S.Hossein Hosseini, Mehrdad Abedi, "A Survey on optimal siting and sizing of D-FACTS ", 2nd International Conference on Research in Engineering, Science and Technology, February 2016
- 74 Mahdi Bayati, Amirhossein Salmani, Mehrdad Abedi, Gevork B. Gharehpetian, "Control of EV/PHEV Bidirectional Battery Chargers in AC Microgrids ", International Conference on POWER, INSTRUMENTATION, COMPUTING AND CONTROL (PICC), December 2015
- 75 Mahdi Bayati, Hesam Ghasempour Aghamaleki, Mehrdad Abedi, Gevork B. Gharehpetian, "Battery Charging Systems for Electric Vehicles Based on Reflex Technique ", Smart Grid Conference (SGC2015), December 2015

- 76 Mahdi Bayati, Amirhossein Salmani, Mehrdad Abedi, Gevork B. Gharehpetian, "A Novel Technique for Optimization of Power Systems Implemented in Simulink (Case Study: Multi-Area Frequency Control) ", International Conference on POWER, INSTRUMENTATION, COMPUTING AND CONTROL (PICC), December 2015
- 77 Mehdi Mosstafayi, Gevork B. Gharehpetian, Mehrdad Abedi, Gholam Hossein Riahy Dehkordi, "Power Consumption Optimal Scheduling for Demand Response in Home Energy Management Systems ", IEA Second International Conference on Technology and Energy, December 2015
- 78 Mehdi Mosstafayi, Mehrdad Abedi, Gholam Hossein Riahy Dehkordi, "s for the Roads in Iran Evaluation and selection of Electrical Vehicle ", 30th PSC-2015 Conference, November 2015
- 79 Bahram Poornazaryan, Mehrdad Abedi, Gevork B. Gharehpetian, Peyman Karimyan, "Application of PHEVs in Controlling Voltage and Frequency of Autonomous Microgrids ", 30-th International Power System Conference, November 2015
- 80 Mojtaba Mohammad Shafinejad, Mehrdad Abedi, Farnaz Safdarian, "Feasibility Study of Installing Offshore Wind Farms in the South East of Caspian Sea ", International Conference on Economic Management and Social Science, May 2015
- 81 Ahmad Hemati, S.Hossein Hosseinian, Mehrdad Abedi, "reserve quantification in power system with wind power integration ", national conference of technology, energy & data on electrical & computer engineering, May 2015
- 82 Pezhman Hashemian, Peyman Karimyan, Behrooz Vahidi, Mehrdad Abedi, "A novel method for analysis of effects of DGs on reduction the area of region which affected by voltage sag ", PDC 20, April 2015
- 83 Bahram Poornazaryan, Peyman Karimyan, Gevork B. Gharehpetian, Mehrdad Abedi, "New Index Presentation for Sizing and Localization of Distributed generation Units in Distribution Systems with Voltage Stability Improvement Approach ", 20-th Electric Power Distribution Conference, EPDC 2015, April 2015
- 84 Mojtaba Mohammad Shafinejad, Mehrdad Abedi, "Feasibility Study of Wind Power Plant in Caspian Sea ", ETEC-2015, January 2015
- 85 Mohammadreza Poursistani, Mehrdad Abedi, Nesa Hajilu, Gevork B. Gharehpetian, "Smart Charging Of Plug-In Electric Vehicle Using Gravitational Search Algorithm ", Smart Grid Conference 2014 (SGC14), December 2014
- 86 Mojtaba Mohammad Shafinejad, Mehrdad Abedi, Komeil Ebrahimi, Alikarami Reza, Alimohammad Shafinejad, "Evaluation of Static and Dynamic Voltage Stability by Applying Wind Power into the System the Proposed Suitable Compensation ", International conference on economic accounting management and social science, December 2014
- 87 Mohammadreza Poursistani, Mehrdad Abedi, Nesa Hajilu, Gevork B. Gharehpetian, "Impacts of Plug-in Electric Vehicles Smart Charging on Distribution Networks ", First International Congress on Technology, Communication and Knowledge, November 2014
- 88 Seyyed Mohammad Sadegh Ghiasi, Mehrdad Abedi, S.Hossein Hosseinian, "Dynamic Control of Photo Voltaic Array ", 29th International Power System Conference, October 2014
- 89 Siamak Bahari, Peyman Karimyan, Behrooz Zaker, Hossein Askarian Abyaneh, Gevork B. Gharehpetian, Mehrdad Abedi, "Fault Current Limiter Optimal Sizing Using Harmony Search Algorithm (HAS) ", 29-th International Power System Conference, October 2014
- 90 Nesa Hajilu, Mohammadreza Poursistani, Gevork B. Gharehpetian, Mehrdad Abedi, "Subsidies Effect on CHP Systems Profitability in Iranian Industry ", 29-th International Power System Conference, October 2014
- 91 Erfan Maali Amiri, Mehrdad Abedi, Gevork B. Gharehpetian, Peyman Karimyan, "Fault Classification in Smart Distribution Networks with High Penetration of Distributed Generation Resources ", 19-th Electric Power Distribution Conference, EPDC 2014, May 2014
- 92 Seyed Mohammad Sadat Kiaee, Gevork B. Gharehpetian, S.Hossein Hosseinian, Mehrdad Abedi, "Home Load and Solar Power Management under Real-Time Prices ", 14th International Conference on Environment and Electrical Engineering, May 2014
- 93 Seyed Mohammad Sadat Kiaee, Gevork B. Gharehpetian, S.Hossein Hosseinian, Mehrdad Abedi, "Home Load and Solar Power Management under Real-Time Prices ", 14th International Conference on Environment and Electrical Engineering IEEEIC 2014, May 2014

- 94 Peyman Karimyan, Mehrdad Abedi, S.Hossein Hosseinian, Erfan Maali Amiri, Roohallah Khatami, "ooo ", ooo, May 2014
- 95 Kamran Ramezani Talabari, Gevork B. Gharehpetian, S.Hossein Hosseinian, Mehrdad Abedi, S.Hamid Fathi, "Energy Generation Using Thermoelectric Solid Stste Generators and Application in Distributed Generation ", 2nd Regional CIRED Conference and Exhibition on Electricity Distribution, January 2014
- 96 Peyman Karimyan, Mehrdad Abedi, S.Hossein Hosseinian, Erfan Maali Amiri, "ooo ", ooo, December 2013
- 97 Peyman Karimyan, Mehrdad Abedi, S.Hossein Hosseinian, Erfan Maali Amiri, "VPP commitment in energy market with Uncertainty ", Smart Grid 92, December 2013
- 98 Erfan Maali Amiri, Mehrdad Abedi, Gevork B. Gharehpetian, Peyman Karimyan, "Determination and Isolation of Faulted Section in Asymmetrical Micogrid in Off-grid and On-grid Modes ", Smart Grid Conference, SGC 2013, December 2013
- 99 Seyed Mohammad Sadat Kiaee, Hossein Askarian Abyaneh, S.Hossein Hosseinian, Mehrdad Abedi, "Energy Cost Management of Domestic Customers in Real-Time Electricity Pricing Environments ", 13th International Conference on Environment and Electrical Engineering IEEEIC 2013, November 2013
- 100 Mohammah Dehghani, Mehrdad Abedi, Behrooz Vahidi, "Surge arrester modelling by using Hammerstein model ", 28th PSC, November 2013
- 101 Seyed Mohammad Sadat Kiaee, S.Hossein Hosseinian, Mehrdad Abedi, "A Risk-Considered Stochastic Home Load Management Under Real-Time Electricity Prices ", 13th International Conference on Environment and Electrical Engineering IEEEIC 2013, November 2013
- 102 Seyed Mohammad Sadat Kiaee, S.Hossein Hosseinian, Mehrdad Abedi, "A risk considered stochastic home load managment under real time electricity prices ", Enviroment and electrical engineering(IEEEIC),2013 12th, June 2013
- 103 Zahra Khatami, Mehrdad Abedi, Gevork B. Gharehpetian, "Two-Area Frequency Control in Overloaded Conditions by Using HVDC Transmission ", 21st Iranian Conference on Electrical Engineering, May 2013
- 104 Navid Ghardash Khani, S.Hamid Fathi, Mehrdad Abedi, "Single-stage sine-wave three phase inverter for an autonomous operation of renewable energy conversion systems ", The 22nd IEEE International Symposium on Industrial Electronics (ISIE 2013, May 2013
- 105 Erfan Maali Amiri, Behrooz Zaker, Hesam Rahbari Magham, Mehrdad Abedi, Gevork B. Gharehpetian, "Optimal Placement and Sizing of STATCOM to Improve Power Quality Considering Wind Generation ", Third Iranian Conference on Renewable Energies and Distributed Generation (ICREDG 2013), April 2013
- 106 Faegheh Irannezhad, S.Hossein Hosseinian, Mehrdad Abedi, Behrooz Vahidi, "Using the instantaneous power theory in order to control the current in the parallel active filter to compensata reactive power and reduction of harmonics ", 2012 IEEE International Conference on Power Electronics, Drives and Energy Systems PEDES, December 2012
- 107 Farideh Doostmohammadi, Zahra Khatami, Gevork B. Gharehpetian, S.H.H. Sadeghi, Mehrdad Abedi, "Comparing Effects of Series and Parallel FACTS/BESS Devices on Voltage Stability of a Grid-Connected Wind Farm During Fault ", Conference on Smart Electric Grids Technology (SEGT2012), December 2012
- 108 Javad Shokrollahi Moghani, Peyman Karimyan, Babak Abdi, Mehrdad Abedi, "Investigation of component Design Parameters in Boost Converter Using Voltage Doubler Circuits for Satellite Applications ", SSD2012, October 2012
- 109 Mohammad Rashidi, Mehrdad Abedi, S.Hossein Hosseinian, "A Novel model for reserve market considering security and reliability due to limits in Iran Grid ", ICEE2012, May 2012
- 110 Amir Khaledian, Mehrdad Abedi, Gevork B. Gharehpetian, "Distributed Generation Units Optimal Generation Planning in Microgrids Considering Stochastic Condition of Load Consumption ", 2ed Iranian Conference on Smart Grids, May 2012
- 111 Amir Khaledian, Mehrdad Abedi, Gevork B. Gharehpetian, "Stability Assessment of Micrgrid with Droop Characteristic Based Controller ", 2ed Iranain Conference on Smart Grids, May 2012
- 112 Hamed Ahmadi, Abbas Hosseini, Mehrdad Abedi, Farahnaz Taghavi, "Modelling and Simulation of Wind Speed in a Sample Site in Presence of Wind Turbines ", the 2nd Iranian conference on Renewable Energy and Distributed generation, March 2012


- 113 Hamed Ahmadi, Mehrdad Abedi, Gholam Hossein Riahy Dehkordi, "Application and Analysis of a Matrix converter Connected to PMSG in Wind Turbine Systems ", the 2nd Iranian conference on Renewable Energy and Distributed generation, March 2012
- 114 Mahdi Kohansal, Gevork B. Gharehpetian, Mehrdad Abedi, "An Optimization to Improve Voltage Response of VSI in Islanded Microgrid Considering Reactive Power Sharing ", Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), March 2012
- 115 Mahdi Kohansal, Gevork B. Gharehpetian, Matin Rahmatian, Mehrdad Abedi, Mohammad Javad Sanjari, "Effect of Load Condition on Dynamic Stability in Isolated Microgrid ", Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), March 2012
- 116 Seyyed Mohammad Sadegh Ghiasi, Gevork B. Gharehpetian, Mehrdad Abedi, S.Hossein Hosseinian, "Decoupled Control Of Active and reactive Powers in DFIG Wind Turbine ", Second Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2012), March 2012
- 117 Mahdi Kohansal, Gevork B. Gharehpetian, Mehrdad Abedi, Mohammad Javad Sanjari, "Determination of Controllers Constraints for Frequency Stability in Islanded Microgrid ", International Conference on Renewable Energies and Power Quality, ICREPQ'12, March 2012
- 118 Mahdi Kohansal, Gevork B. Gharehpetian, Mehrdad Abedi, Mohammad Javad Sanjari, "Droop Controller Limitation for Voltage Stability in Islanded Microgrid ", International Conference on Renewable Energies and Power Quality, ICREPQ'12, March 2012
- 119 Mahdi Kohansal, Gevork B. Gharehpetian, Mehrdad Abedi, Matin Rahmatian, "A Novel Controller for Frequency Protection of an Islanded Microgrids ", 6th Power Systems and Protection and Control, January 2012
- 120 Mahdi Kohansal, Gevork B. Gharehpetian, Mehrdad Abedi, Matin Rahmatian, "An Innovative Controller for Improvement of Voltage Fluctuations Following Huge Disturbances in an Autonomous Microgrids ", 6th Power Systems and Protection and Control, January 2012
- 121 Behnam Behzad Jazi, Hossein Askarian Abyaneh, Mehrdad Abedi, "Power Quality Improvement Using Active filter Capability in Back to Back convertor Installed for variable speed DFIG wind energy systems ", ICEE2011, May 2011
- 122 Behnam Behzad Jazi, Mehrdad Abedi, "PID Tuning for Load frequency control Using optimal and Robust control ", ICEE2011, May 2011
- 123 Seyed Hossein Akhavan Hejazi, Maryam Sadat Akhavan Hejazi, Gevork B. Gharehpetian, Mehrdad Abedi, "Distributed Generation Site and Size Allocation Through a Techno Economical Multi-objective Differential Evolution Algorithm ", 3rd International Power and Energy Conference (PECon), November 2010
- 124 Reza Salehi Sharafdarkolae, Naeem Farokhnia, Ayoob Kavooosi, Mehrdad Abedi, S.Hamid Fathi, "New Strategy for Harmonic Elimination of Lower Order in Multilevel Inverters for Reduction of Ripple in Induction Motor Torque ", PSC 2010, November 2010
- 125 Mahdi Mirzaie, Mehrdad Abedi, "Islanding of Distribution Network with DG ", PDC 2010, May 2010
- 126 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, "On-grid and Off-grid Operation of Multi-Input Single-Output DC/DC Converter based Fuel Cell Generation System ", 18-th Iranian Conference on Electrical Engineering, May 2010
- 127 Fatemeh Jahanbani Ardakani, Gholam Hossein Riahy Dehkordi, Mehrdad Abedi, "Optimal sizing of a stand alone hybrid system for south west of iran case study ", , November 2009
- 128 Mehdi Gholami, Mehrdad Abedi, Gevork B. Gharehpetian, "A novel approach for Z matrix building process using harmony search algorithm ", , November 2009
- 129 Hamed Nafisi, Masoud Davari, Mehrdad Abedi, Gevork B. Gharehpetian, "Using fuzzy ARTmap neural network for determination of partial discharge location in power transformers ", , June 2009
- 130 Pooyan Javanbakht, Mehrdad Abedi, "The enhancement of transient performance of cascaded induction motors using UPQC ", , May 2009
- 131 Mohammadreza Jan Aghae, Mehrdad Abedi, "Performance evaluation of custom power devices in process of motor bus transfer ", , May 2009








- 132 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, S.Hossein Hosseinian, "Modelling and simulation of microturbine generation system for on grid and off grid operation modes " , , April 2009
- 133 Sajad Najafi, Mehrdad Abedi, S.Hossein Hosseinian, "A strategy for frequency stability of islanded power systems " , Power and Energy Conference, 2008. PECon 2008. IEEE 2nd International, March 2009
- 134 Mehrdad Abedi, "Utilization of analytical hierarchy process in contingency ranking " , , March 2009
- 135 Adel Mohseni, Mehrdad Abedi, Hadi Modagheh, "A New Approach to Solve GEP Problem Based GA and AHP Method " , 3rd International Conference on Modelling Simulation and Applied Optimisation, January 2009
- 136 Masoud Davari, Farhad Tourani, Hamed Nafisi, Mehrdad Abedi, Gevork B. Gharehpetian, "Determination of mean and variance of LMP using probabilistic DCOPF and T PEM " , , December 2008
- 137 Amir Hossein Ranjbar, Hesam Omranpour Bandpey, Mehrdad Abedi, Gevork B. Gharehpetian, "A novel approach for a z matrix building process using genetic algorithm " , , December 2008
- 138 Sajad Najafi, Mehrdad Abedi, S.Hossein Hosseinian, "A strategy for frequency stability of islanded power systems " , , December 2008
- 139 , Hesam Yazdanpanahi, Mehrdad Abedi, Gevork B. Gharehpetian, "A comparison amongst sub optimal ordering schemes for power systems accompanied with a GA based optimal ordering method " , , December 2008
- 140 [en-name N/A], Hamed Nafisi, Mehrdad Abedi, S.Hossein Hosseinian, "Using bayesian network for fault diagnosis on high voltage power transmission lines " , , November 2008
- 141 Hamed Nafisi, Amirhossein Aghakhani, Mehrdad Abedi, Gevork B. Gharehpetian, "Detection on partial discharge location in power transformers using fuzzy ATRmap neural network " , , October 2008
- 142 Ehsan Saeidpour Parizy, Vahid Saeidpour.Parizy, Mehrdad Abedi, "Complete integrated and simultaneously design for STATCOM fuzzy controller with variable length genetic algorithm for voltage profile improvement " , , September 2008
- 143 Ehsan Nasr Azadani, [en-name N/A], Mehrdad Abedi, S.Hossein Hosseinian, "Multiobjective optimization for optimal power flow considering valve loading effects " , , September 2008
- 144 Sayyed Mahdi Aleemran, Mehrdad Abedi, Gevork B. Gharehpetian, Reza Noroozian, "Dynamic operation of a photovoltaic system connected to distributed system " , , June 2008
- 145 Ehsan Saeidpour Parizy, Mehrdad Abedi, Vahid Saeidpour.Parizy, "Integration Design of Fuzzy System Using GFenetic Algorithm for Improvement of Voltage Profile with Static VAR Compensator " , , May 2008
- 146 Behzad Farhangi Rad, Mehrdad Abedi, "Application of Meta hueristics Algorithms in Discrete Model of Steady State Load Shedding " , , May 2008
- 147 Behzad Farhangi Rad, Mehrdad Abedi, "An Optimal Load Shedding Schmeme during Contingency Situations Using Meta Heuristics Algorithms with Application of AHP Method " , , May 2008
- 148 Naser Ghasemi, Mehrdad Abedi, Hassan Rastegar, Gevork B. Gharehpetian, "Hybrid distributed generation units pemfuel cell and miroturbine " , , April 2008
- 149 Sayyed Mahdi Aleemran, Mehdi Forghani, Mehrdad Abedi, Gevork B. Gharehpetian, "Combinde operation of UPQC and fuel cell with common DC bus " , , March 2008
- 150 Hamidreza Baghaee Kashi, Sayyed Mahdi Aleemran, Gevork B. Gharehpetian, Mehrdad Abedi, Mojtaba Agha-Mirsalim, "Power factor improvement of DC/DC converters for Micro- turbines " , , March 2008
- 151 Sayyed Mahdi Aleemran, Hamidreza Baghaee Kashi, Gevork B. Gharehpetian, Mehrdad Abedi, "Analysis the islanding mode of combined operation of DG and UPQC in unbalanced distribution system " , , March 2008
- 152 Mishel Mahmoodi, Reza Noroozian, Gevork B. Gharehpetian, Mehrdad Abedi, "A suitable transfer power control system for interconnection converter of DC microgrids " , , March 2008
- 153 Behzad Farhangi Rad, Mehrdad Abedi, Ali Kashefi Kaviani, "An optimal load shedding scheme during contingency situations using meta heuristics algorithms " , , March 2008

- 154 Ali Jahanbani Ardakan, Ali Kashefi Kaviani, Seyyed Ali Pourmousavi Kani, S.Hossein Hosseinian, Mehrdad Abedi, "Siting and sizing of distributed generation for loss reduction " , , December 2007
- 155 Seyed Ehsan Safavieh, Ali Jahanbani Ardakan, Ali Kashefi Kaviani, Seyyed Ali Pourmousavi Kani, S.Hossein Hosseinian, Mehrdad Abedi, "A new integrated approach for very short term wind speed prediction using wavelet networks and PSO " , , December 2007
- 156 Ali Bidadfar, Mehdi Karrari, Homayoun Meshgin-Kelk, Mehrdad Abedi, "Integrated application of STATCOM and SMES to improve power swings damping based on direct lyapunov method " , , November 2007
- 157 Reza Noroozian, Mehrdad Abedi, Gevork B. Gharehpetian, S.Hossein Hosseinian, "On- grid and Off- grid operation of multi input single output DC/ DC converter based fuel cell generation systems " , , September 2007
- 158 Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, "CWT application for transformers winding incipient faults localization during impulse test " , , August 2007
- 159 Zeinab Ghofrani Jahromi, Mehrdad Abedi, Gevork B. Gharehpetian, "Weighting factor selection for contingency ranking associated with voltage security in power systems using AHP method " , , May 2007
- 160 Nariman Mahdavi Mazde, Mohammad Bagher Menhaj, Mehrdad Abedi, "Bayesian neural networks for time series prediction " , , February 2007
- 161 Sajad Najafi, Mehrdad Abedi, S.Hossein Hosseinian, "A novel approach to optimal allocation of SVC using genetic algorithm continuation power flow " , , November 2006
- 162 Mohammad Monfared, [en-name N/A], Mehrdad Abedi, "Three phase asymmetrica load flow for four- wire distribution networks " , , October 2006
- 163 Mishel Mahmoodi, Gevork B. Gharehpetian, Mehrdad Abedi, Reza Noroozian, "Novel and Simple Control Strategies for Fuel Cell and Source Converters of DC Distribution Systems " , , September 2006
- 164 Mishel Mahmoodi, Gevork B. Gharehpetian, Mehrdad Abedi, Reza Noroozian, "Control Systems for Independent Operation of Parallel Connected DG Units in Distribution DC Systems " , , September 2006
- 165 Mishel Mahmoodi, Gevork B. Gharehpetian, Mehrdad Abedi, Reza Noroozian, "A Powerful Control Strategy for Source Converters and a Novel Load-Generation Voltage Control Scheme for DC Voltage Determination in DC Distribution System " , , September 2006
- 166 Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, T.R Bieler, "Application of Soft-Threshold Wavelet De-Noising Method in the Characterization of Single Arc Discharge During Impulse Test " , , June 2006
- 167 Mahdi Salay Naderi, Gevork B. Gharehpetian, Mehrdad Abedi, T.R Bieler, "An Experimental investigation and Wavelet Based Detection of Arc Characteristics During Impulse Test " , , June 2006
- 168 Sajad Najafi, Mehrdad Abedi, S.Hossein Hosseinian, "optimal placement of svc: a new challenge to solving power system technical problem " , , May 2006
- 169 Mohsen Ghaffarpour Jahromi, Mehrdad Abedi, Daryoush Ebadi, "Fuzzy Logic based static VAR Compensators for enhancing the Performance of electric motor and arc furnace loads " , , April 2006
- 170 Mehrdad Abedi, Sajad Najafi, "a new method to optimal placement of STATCOM in electrical power system using genetic algorithms and CPF " , , March 2005
- 171 Mehei Nafar, Mehrdad Abedi, Behrang Yousef Pour, "Partial Discharge Modelling of Transformer Winding " , , December 2004
- 172 Mehei Nafar, Mehrdad Abedi, Gevork B. Gharehpetian, Behrang Yousef Pour, "Partial Discharge Modeling in Transformer Winding " , , November 2004
- 173 Mehei Nafar, Mehrdad Abedi, Gevork B. Gharehpetian, Siavash Taghipoor, Behrang Yousef Pour, "Locating partial discharge in transformer by wavelet " , , September 2004
- 174 Behrooz Vahidi, Mohammad Javad Alborzi, Hassan Aghaeinia, Mehrdad Abedi, "DC Corona detection on Surface of insulator using sound . " , , August 2003

- 175 Behrooz Vahidi, Mohammad Javad Alborzi, Hassan Aghaeinia, Mehrdad Abedi, "Acoustic Diagnoses of AC Corona on the Surfaces of Insulators", , June 2003
- 176 S.Hamid Fathi, Mehrdad Rostami, Mehrdad Abedi, "Chaos in Power Transformers Including the Core Hysteresis", , May 2002
- 177 Mehrdad Rostami, S.Hamid Fathi, Mehrdad Abedi, "Switching Time Bifurcation Analysis in a TCR, Using the Intelligent Resistance Method (IRM)", , May 2002
- 178 Mehrdad Rostami, S.Hamid Fathi, Mehrdad Abedi, [en-name N/A], "Switching Time Bifurcation Analysis in a Thyristor Controlled Reactor Using the Intelligent Resistance Method (IRM)", , March 2002
- 179 Majid Safar Johari, Mehrdad Abedi, Esfandiar Ekhtiyari Kasnaviyeh Yazd, "The Effect of Percentages of Remaining Hair, Breed and Ambient Relative Humidity on Electrical Resistance of Cashmere Fiber", , August 2001
- 180 Majid Safar Johari, Mehrdad Abedi, Esfandiar Ekhtiyari Kasnaviyeh Yazd, "The Effect of Passing Frequency Through Shirley Trash Separator for Dehairing Cashmere Sample", , April 2000
- 181 Majid Safar Johari, Mehrdad Abedi, Esfandiar Ekhtiyari Kasnaviyeh Yazd, "Digital Control of Ambient Relative Humidity for the Measurement of Electrical Resistance of Cashmere Fiber", , April 2000
- 182 Majid Safar Johari, Mehrdad Abedi, Esfandiar Ekhtiyari Kasnaviyeh Yazd, "The Effect of Ambient Relative Humidity on Electrical Resistance of Cashmere Fiber", , April 2000
- 183 Mohammad Bagher Menhaj, Mehrdad Abedi, Ali Reza Karami, "On-Line Load Flow in Power Systems Using Neural Networks", , January 1998
- 184 Mohammad Bagher Menhaj, Mehrdad Abedi, Ali Reza Karami, "A Neuro-Based On-Line Load Flow for Power Systems", , November 1997
- 185 Seyed Mojtaba Rouhani, Mohammad Bagher Menhaj, Mehrdad Abedi, "A Fuzzy Neural Network Capable of Persian Separate Alphabet Recognition", , May 1997
- 186 Mohammad Bagher Menhaj, Payam Ghazaanfari, Mehrdad Abedi, "Gain Scheduling Adaptive Control for a Synchronous Generator with SVC Compensator", , May 1997
- 187 Navid Seifi Poor, Mohammad Bagher Menhaj, Mehrdad Abedi, "Synchronous Generator Modeling Using Computational Intelligence Methods", , November 1996
- 188 Mohammadreza Jamaati, Mehrdad Abedi, Mohammad Bagher Menhaj, "Determination of Kind and Position of Short Connection in Industrial Power Networks Using Neural Nets and Current Components", , November 1996
- 189 Ramin Shariat Yazdi, Mehrdad Abedi, "Fuzzy Logic for Load Frequency Control Problem", , September 1996
- 190 Mohammadreza Jamaati, Mehrdad Abedi, Mohammad Bagher Menhaj, "A Neural Network Approach for Fault Diagnosis in Industrial Power Networks Using Phase Currents", , September 1996
- 191 Mohammad Reza Haghaniyat, S.Ahmad Motamedi, Mehrdad Abedi, "Microprocessor Based Multi-Tariff Metering System for Load Management Scheme", , March 1994
- 192 Rouzbeh Moini Mazandaran, Mehrdad Abedi, Behzad Kordi, "The Evaluation of LEMP Effect on 33kV Primary Feeder Overhead Line Using New Model for Lightning Channel", , January 1994
- 193 Mehrdad Abedi, Hassan Rastegar, "A PC Based Fault Study Program for Educational Purpose", , March 1991

Taught Courses

#	Course title	Description	Headlines	Date
1	Power Systems Analysis (I)	In this course students are learned the three phase system, transmission line parameters, line models, per-unit, load flow, and distribution systems.		Fall 2021

2	Power System Utilization	بهره برداری از سیستمهای قدرت		Fall 2021
3	Electric Circuits (I)	To become familiar with electric circuits		Fall 2021
4	Power Systems Analysis (I)	In this course students are learned the three phase system, transmission line parameters, line models, per-unit, load flow, and distribution systems.		Spring 2021
5	Electrical Machines (I)	آشنایی با مفاهیم ماشینهای الکتریکی		Spring 2021
6	Electric Circuits (II)	آشنایی با مفاهیم مدارهای الکتریکی 2		Spring 2021
7	Power Systems Analysis (I)	In this course students are learned the three phase system, transmission line parameters, line models, per-unit, load flow, and distribution systems.		Fall 2020
8	Power System Utilization	بهره برداری از سیستمهای قدرت		Fall 2020

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Hybrid Maglev for Train	96964			2018/10/1	2038/01/19