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Supervised PhD Theses

#	Thesis title	By	Date
1	Probabilistic modeling of distribution transformer and distribution cable life time in the presence of distributed generation	Seyed Mohammad Mousavi Agah & Hossein Askarian Abyaneh	March 2011
2	The effect of UPFC on assessment and co-ordination of overcurrent and distance relays	Farzad Razavi & Hossein Askarian Abyaneh	July 2007

Supervised MSc Theses

#	Thesis title	By	Date
1	Providing a new algorithm to detect distributed generation islanding in order to reduce non-detection zone	Seyed Soroush Karimi Madahi & Hossein Askarian Abyaneh	March 2021
2	Distributed optimization for energy management of residential micrigrids in the presence of electric vehicles	Samaneh Zamanloo & Hossein Askarian Abyaneh	March 2021
3	Transmission Lines Protection Improvement against Power Swing in Presence of Wind Farms	Wedad Alshibli & Hossein Askarian Abyaneh	March 2021
4	Determine the location and optimal capacity of electric vehicles parking in smart grids	Arian Shah Kamrani & Hossein Askarian Abyaneh	February 2021
5	New Method for Maximum Power Point Tracking of PV arrays under Partial Shading Condition & Comparing with Conventional Techniques	Kiarash Rastegar & Hossein Askarian Abyaneh	February 2021

6	Protection Improvement of inverter- dominated microgrids considering uncertainties	Abdolhamid Farshadi & Hossein Askarian Abyaneh	February 2021
7	Expansion planning of electrical network and natural gas system in the presence of energy storage systems	Arash Gholami & Hossein Askarian Abyaneh	January 2021
8	Investigating the effect of reducing system inertia on power system stability due to increasing renewable resources penetration	Javad Safari & Hossein Askarian Abyaneh	July 2020
9	Optimal Scheduling of Active Distribution Networks in the Context of Energy and Reserve Market	Seyed Mahdi Kazemi- Razi & Hossein Askarian Abyaneh	February 2020
10	Design and control of a high-performance inverter transducer for network-connected photovoltaic	Pedram Pakravan & Hossein Askarian Abyaneh	October 2019
11	Optimal allocation of electric vehicle for improvement reliability index	Behzad Pooyesh & Hossein Askarian Abyaneh	August 2019
12	Using WAPS to upgrade the power grid protection for its implementation	Mohammadali Hayerikhiyavi & Hossein Askarian Abyaneh	February 2019
13	Analysis of Photovoltaic system for output efficiency improvement	Siamak Imani & Hossein Askarian Abyaneh	February 2019
14	rotection The relay of a micro grid with the ability to reconfigure settings in various situations by the IEC-61850 protocol	Seyed Sajad Hazaveh & Hossein Askarian Abyaneh	February 2019
15	Fault Locating in Distribution System Considering Various Distributed Generation	Elham Mahdavi & Hossein Askarian Abyaneh	October 2018
16	Evaluation of PHEV's impacts on load management and power quality parameters	Mohammad Hosein Fazaeli & Hossein Askarian Abyaneh	December 2017
17	Intelligent Distribution Networks Planning in the Presence of Electric Vehicles	Mohammad Mozaffari & Hossein Askarian Abyaneh	October 2017
18	: Microgrid Protection Considering Teleprotection based on IEC61850 and End to End Test	Omid Heydari & Hossein Askarian Abyaneh	October 2017
19	The novel algorithm to detect fault by boundary wavelet coefficient for real-time	Amin Raeisi & Hossein Askarian Abyaneh	February 2017
20	optimal placement of fault current limiter in restructured networks with distributed generation with reduction of protection setting changes	Omid Karimi Vahid & Hossein Askarian Abyaneh	November 2016
21	Performance improvement of FCL-DVR in distribution Grid for voltage restoration and fault current limitation	Mohsen Jorjani Damghani & Hossein Askarian Abyaneh	October 2016
22	Title: Risk evaluation and improvement of smart grid based on cyber network (Control, monitoring, and protection) topology	Amirreza Hassani Ahangar & Hossein Askarian Abyaneh	July 2016
23	Distribution network protection in presence of DGs with minimum outage of DGs	Meisam Asgari Jirhandeh & Hossein Askarian Abyaneh	February 2016
24	A new method for the precise impedance determination of a digital distance relay based on harmonic and mid-harmonic elimination	Meysam Rajayi & Hossein Askarian Abyaneh	February 2016
25	Determination of observed exact impedance by digital distance relay based on removing dc component using wavelet transform	Farzad Shahbazi & Hossein Askarian Abyaneh	February 2016

26	Adequacy optimization of electrical micro grids considering PHEVs behaviors	Mohsen Hamzeh & Hossein Askarian Abyaneh	October 2015
27	"Increasing the Accuracy of Distance Protection Using Fundamental Harmonic Extraction"	Shima Sadraefar & Hossein Askarian Abyaneh	February 2015
28	Stabilization of DC micro grids by considering the converters presence	Sina Tonekaboni & Hossein Askarian Abyaneh	February 2015
29	Optimization of energy consumption electrical trains by considering the path	Mohammad Reza Hosseini & Hossein Askarian Abyaneh	February 2015
30	Analysis and Modelling of Grounding System in a Solar Cell for the Protection of Electronic Apparatus against Lightning Currents	Naime Ahmadi Najafabadi & Hossein Askarian Abyaneh	October 2014
31	Enhancement of microgrid power quality indices including plug – in Hybrid Electric Vehicles	Alireza Gholamalipour Arani & Hossein Askarian Abyaneh	October 2014
32	"Distance and Over Current Relay,s Coordinating in Transient Mode with regard to CT and PT Transient Model"	Mohammad Javad Farah & Hossein Askarian Abyaneh	October 2014
33	Impact of electrical trains harmonics on power quality of global network	Sasan Yousefi & Hossein Askarian Abyaneh	September 2014
34	- Method of control and optimization of losses in the maglev train	Amir Aghazadeh & Hossein Askarian Abyaneh	February 2014
35	" Resistive and inductive fault current limiters optimal setting and placement "	Hossein Bahramian & Hossein Askarian Abyaneh	October 2013
36	" Investigating optimal charging method and optimizing voltage deviation and power factor in smart grid"	Iman Niazazari & Hossein Askarian Abyaneh	October 2013
37	"Charge Management of Plug in Hybrid Electric Vehicle to Improve Reliability"	Sajjad Rahimi & Hossein Askarian Abyaneh	September 2013
38	"Enhancement and declaration of different methods for detecting islanding condition for different kinds of DG in distribution system"	Abbas Dehghani Kiadehi & Hossein Askarian Abyaneh	September 2013
39	Adaptive load shedding algorithm for protection of power system	Aniseh Afarideh Asl & Hossein Askarian Abyaneh	February 2013
40	Protection of Microgrid Using direction Element Assisted Communication	Ehsan Khoob & Hossein Askarian Abyaneh	November 2012
41	Islanding detection of distributed generation	Mahdiyeh Khodaparastan & Hossein Askarian Abyaneh	October 2012
42	Protection Improvement of Doubly Fed Induction Generator (DFIG) Wind Turbines	Arman Safaei & Hossein Askarian Abyaneh	September 2012
43	An stochastic model for multiobjective distribution feeder reconfiguration	Reza Eslami & Hossein Askarian Abyaneh	September 2012
44	Load shedding for an islanded distribution system with distributed generators	Mehdi Garmroodi & Hossein Askarian Abyaneh	January 2012
45	Estimation of harmonic and related losses in electric distribution systems	Akram Jabaritarkami & Hossein Askarian Abyaneh	January 2012

46	Role of fault current limiters (FCL) in coordination of phase and earth O/C relays	Hossein Mahdinia Roudsari & Hossein Askarian Abyaneh	October 2011
47	Loss reduction allocation between DG units in distribution systems	Nazli Madinehi & Hossein Askarian Abyaneh	October 2011
48	Selective harmonic elimination PWM in multilevel inverters with non-equal dc sources using neural networks	Mohammddkazem Bakhshizadeh & Hossein Askarian Abyaneh	February 2011
49	Protective Devices Coordination in Distribution Networks in the Presence of Direct Connected Distributed Generation	Ali Agheli & Hossein Askarian Abyaneh	February 2011
50	Connection of a hybrid fuel cell/PV generation system to distributed power network	Yahya Kabiri Renani & Hossein Askarian Abyaneh	January 2011
51	A Novel Method for Control of Interline Power Flow Controller (IPFC)	Milad Fekrimoghadam & Hossein Askarian Abyaneh	November 2010
52	Optimization of electric energy in an industrial network by placement appropriate filters for reducing harmonic distortions	Vahid Farahani & Hossein Askarian Abyaneh	November 2010
53	Optimised allocation of protective and switching device in distribution systems	Hamed Hashemi Dezaki & Hossein Askarian Abyaneh	September 2010
54	performance Improvement of VSC in power Exchanging between DG Units and Grid during Unsymmetrical Fault Conditions	Mahdi Choopani & Hossein Askarian Abyaneh	October 2009
55	Loss optimization of distribution networks considering system reconfiguration, load balancing, optimal capacitor banks and conductor sizes by taking into consideration power quality	Forough Mahmoodianfard & Hossein Askarian Abyaneh	September 2009
56	setting and optimal coordination of Distance over current and Earth fault Relays Genetic	Somayesadat Hashemi Kamangar & Hossein Askarian Abyaneh	July 2009
57	Transmission expansion planning with security constraints under market environment	Hossein Shariati Dehaghan & Hossein Askarian Abyaneh	January 2009
58	optimized Method for detection of Flicker Sources in the Power Network by Analysis of Power Flicker Propagation Direction	Naghi Moaddabipirkolachahi & Hossein Askarian Abyaneh	November 2008
59	Optimum Setting and Coordination of Overcurrent protection Considering Cable Damage curve	Seyed Mohammad Moosavi Agah & Hossein Askarian Abyaneh	September 2008
60	loss reduction of distribution networks choosing capacitor location and conductor sizes by considering harmonics	Vahid Marvasty & Hossein Askarian Abyaneh	July 2008
61	RELIABILITY EVALUATION OF SYSTEM PROTECTION SCHEME	Iraj Rahimi Pordanjani & Hossein Askarian Abyaneh	January 2008
62	Optimum breakpoints determination using genetic algorithm by expert system consideration	Hoda Sharifian & Hossein Askarian Abyaneh	January 2008
63	ASSESSMENT OF NEW POWER QUALITY HARMONIC INDICES WITH WAVELET TRANSFORM AND THEIR APPLICATION IN A TYPICAL DISTRIBUTION	Amirhosein Shaemi & Hossein Askarian Abyaneh	May 2007
64	OPTIMAL COORDINATION OF DISTRIBUTION SYSTEM PROTECTION	Reza Mohamadi Chinloo & Hossein Askarian Abyaneh	April 2007

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Advanced Power System Protection	Hossein Askarian Abyaneh, Iraj Poorkayvany	Iran (Islamic Republic of)	September 2014	1
2	Tutorial and Solution Manual of Advanced Power System Protection	Hossein Askarian Abyaneh, Hamed Nafisi, Mohammad Bagher Gharahi Ghehi	Iran (Islamic Republic of)	October 2019	1
3	Management of Conventional and Smart Distribution Systems	Hossein Askarian Abyaneh, Hossein Bahramian Habil,	Iran (Islamic Republic of)	August 2020	1

Journal Papers

Portal Records

- 1 Arash Gholami, Hamed Nafisi, Hossein Askarian Abyaneh, Ali Jahanbani Ardakani, "Dynamic stochastic joint expansion planning of power systems, natural gas networks, and electrical and natural gas storage", IET GENERATION TRANSMISSION & DISTRIBUTION, September 2021 Vol. 1, Num. 1, Page 1-18, September 2021,
- 2 Seyed Mahdi Kazemi- Razi, Hossein Askarian Abyaneh, Hamed Nafisi, Zunaib Ali, Mousa Marzband, "Enhancement of flexibility in multi-energy microgrids considering voltage and congestion improvement: Robust thermal comfort against reserve calls", Sustainable Cities and Society, July 2021 Vol. 1, Num. 1, Page 1-13, July 2021,
- 3 Arash Gholami, Hamed Nafisi, Hossein Askarian Abyaneh, Ali Jahanbani Ardakani, Zahra Shad, "Second-Order Cone Programming for Linepack in Multistage Stochastic Co-Expansion Planning Power and Natural Gas Systems with Natural Gas Storage", AUT Journal of Electrical Engineering, April 2021 Vol. 1, Num. 1, Page 1-13, April 2021,
- 4 Samaneh Zamanloo, Hossein Askarian Abyaneh, Hamed Nafisi, Mohsen Azizi, "Optimal Two-Level Active and Reactive Energy Management of Residential Appliances in Smart Homes", Sustainable Cities and Society, April 2021 Vol. 71, Num. 1, Page 1-13, April 2021,
- 5 Arian Shah Kamrani, Hossein Askarian Abyaneh, Hamed Nafisi, Mousa Marzband, "A Framework for Day-ahead Optimal Charging Scheduling of Electric Vehicles Providing Route Mapping: Kowloon Case Study", JOURNAL OF CLEANER PRODUCTION, April 2021 Vol. 307, Num. 1, Page 1-14, April 2021,
- 6 Hossein Bahramian Habil, Hossein Askarian Abyaneh, Gevork B. Gharehpetian, "Improving LVRT Capability of Microgrid by Using Bridge-Type Fault Current Limiter", ELECTRIC POWER SYSTEMS RESEARCH, October 2020 Vol. 191, Num. 2, Page 1-22, October 2020,
- 7 Seyed Soroush Karimi Madahi, Hamed Nafisi, Hossein Askarian Abyaneh, Mousa Marzband, "Co-Optimization of Energy Losses and Transformer Operating Costs Based on Smart Charging Algorithm for Plug-in Electric Vehicle Parking Lots", IEEE Transactions on Transportation Electrification, September 2020 Vol. 0, Num. 0, Page 1-14, September 2020,
- 8 Seyed Mahdi Kazemi- Razi, Hossein Askarian Abyaneh, Hamed Nafisi, Mousa Marzband, Masoud Samadian Zakari, "Optimal Microgrid Operation Using Thermal Demand Response Considering Enhancement of Consumers' Thermal Comfort", Iranian Electric Industry Journal of Quality and productivity, January 2020 Vol. 8, Num. 3, Page 1-10, January 2020,
- 9 B.T, S.A.H, Hossein Askarian Abyaneh, F.R, "Power swing detection and blocking of the third zone of distance relays by the combined use of empirical-mode decomposition and Hilbert transform", IET GENERATION TRANSMISSION & DISTRIBUTION, December 2019 Vol. 0, Num. 0, Page 1-18, December 2019,

- 10 Mohammad Mozaffari, Hossein Askarian Abyaneh, M. J, M.M, "Joint Expansion Planning Studies of EV Parking Lots Placement and Distribution Network", IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, November 2019 Vol. 0, Num. 0, Page 0-0, November 2019,
- 11 B.T, S.A.H, Hossein Askarian Abyaneh, F.R, "power System Detection & Zone 3 Blocking of Distance Relays Using Current Sampled Data", Journal of Iranian Association of Electrical and Electronics Engineers, November 2019 Vol. 16, Num. 3, Page 125-135, November 2019,
- 12 S.S, B.T, S.A.H, Hossein Askarian Abyaneh, F.R, "A New Power Swing Detection Method Based on Hilbert Transform", International Journal of Industrial Electronics, Control and Optimization, September 2019 Vol. 3, Num. 2, Page 103-114, September 2019,
- 13 Amirsadegh Zakeri, O.A.G, I.N.A, Hossein Askarian Abyaneh, "The effect of different non-linear demand response models considering incentive and penalty on transmission expansion planning", European Journal of Electrical and Computer Engineering, February 2019 Vol. 3, Num. 1, Page 1-7, February 2019,
- 14 Amirsadegh Zakeri, Hossein Askarian Abyaneh, "Investigation of Wind Power Uncertainty on Transmission Network Expansion Planning", International Journal of Renewable Energy Research, December 2018 Vol. Vol.8, Num. 0, Page 1903-1912, December 2018,
- 15 Amirreza Hassani Ahangar, Behrooz Vahidi, Hossein Askarian Abyaneh, "Evaluating smart grid reliability based on impacts of cyber (control, monitoring and protection) network and its different topologies", International Journal of System Assurance Engineering and Management, September 2018 Vol. 9, Num. 5, Page 1047-1056, September 2018,
- 16 Amin Forooghinehtollahi, Abolfazl Rahiminejad, Behrooz Vahidi, Hossein Askarian Abyaneh, Arman Safaei, "A new evolutionary-analytical two-step optimization method for optimal wind turbine allocation considering maximum capacity", Journal of Renewable and Sustainable Energy, September 2018 Vol. 10, Num. 1, Page 1-18, September 2018,
- 17 Amirreza Hassani Ahangar, Gevork B. Gharehpetian, Ali Asghar Khodadoost Arani, Hossein Askarian Abyaneh, "Cyber Network Topology Effect on Reliability of Smart Grid Considering Direct Connection of Cyber-Power Network", Journal of Electrical Engineering, June 2018 Vol. 84, Num. 2, Page 576-584, June 2018,
- 18 S.A.H, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Reza Eslami, "Improving Adaptive Protection to Reduce Sensitivity to Uncertainties Which Affect Protection Coordination of Microgrids", IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, April 2018 Vol. 42, Num. 1, Page 63-74, April 2018,
- 19 Reza Eslami, S.H.H. Sadeghi, Hossein Askarian Abyaneh, "Fault detection in microgrids using positive, negative and zero sequences of voltage and current waveforms considering uncertainties of network topology", Iranian Electric Industry Journal of Quality and productivity, February 2018 Vol. 6, Num. 12, Page 107-121, February 2018,
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- 21 Mohammad Mahdi Hosseini Biyouki, Sajad Jashfar, Behrooz Vahidi, Hossein Askarian Abyaneh, "Impact of Optimal Unified Power Flow Controller in Electrical Transmission Systems in Reducing Transmission Cost", ELECTRIC POWER COMPONENTS AND SYSTEMS, December 2017 Vol. 0, Num. 0, Page 1-12, December 2017,
- 22 Hossein Bahramian Habil, E. Azad Farsani, Behrooz Vahidi, Hossein Askarian Abyaneh, Gevork B. Gharehpetian, "Fault Current Limiter Placement Using Multi-Objective Firework Algorithm", ELECTRIC POWER COMPONENTS AND SYSTEMS, December 2017 Vol. 0, Num. 0, Page 1-12, December 2017,
- 23 Khadije Moosavi, Behrooz Vahidi, Hossein Askarian Abyaneh, Amin Forooghinehtollahi, "Intelligent Control of Power Sharing between Parallel- Connected Boost Converters in Micro-girds", Journal of Renewable and Sustainable Energy, November 2017 Vol. 9, Num. 6, Page 1-16, November 2017,
- 24 Arman Safaei, S.Hossein Hosseinian, Hossein Askarian Abyaneh, "Enhancing the HVRT and LVRT Capabilities of DFIG- based Wind Turbine in an Islanded Microgrid", Engineering, Technology & Applied Science Research, October 2017 Vol. 7, Num. 6, Page 2118-2123, October 2017,
- 25 Reza Eslami, S.H.H. Sadeghi, Hossein Askarian Abyaneh, "A Probabilistic Approach for Evaluation of Fault Detection Schemes in Microgrids", Engineering, Technology & Applied Science Research, October 2017 Vol. 7, Num. 5, Page 1967-1973, October 2017,

- 26 Sasan Yousefi, Mohammad Mahdi Hosseini Biyouki, Aydin Zaboli, Hossein Askarian Abyaneh, S.Hossein Hosseinian, "Harmonic Elimination of 25 kV AC Electric Railways Utilizing a New Hybrid Filter Structure", *Amirkabir International Journal of Science & Research (Electrical & Electronics Engineering)*, September 2017 Vol. 49, Num. 1, Page 3-10, September 2017,
- 27 Amirsadegh Zakeri, Hossein Askarian Abyaneh, "Transmission Expansion Planning Using TLBO Algorithm in the Presence of Demand Response Resources", *Energies*, September 2017 Vol. 10, Num. 1376, Page 1-15, September 2017,
- 28 Seyed Amir Hosseini, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Farzad Razavi, "Evaluation of effectiveness of uncertainty in communication links on the adaptive protection schemes", *Iranian Electric Industry Journal of Quality and productivity*, September 2017 Vol. 5, Num. 10, Page 8-19, September 2017,
- 29 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,
- 30 Reza Eslami, S.H.H. Sadeghi, Hossein Askarian Abyaneh, Adel Nasiri, "A Novel Method for Fault Detection in Future Renewable Electric Energy Delivery and Management Microgrids, Considering Uncertainties in Network Topology", *ELECTRIC POWER COMPONENTS AND SYSTEMS*, June 2017 Vol. 45, Num. 10, Page 1118-1129, June 2017,
- 31 Arman Safaei, S.Hossein Hosseinian, Hossein Askarian Abyaneh, "Investigation and engancement of SFCL impacts on DFIG-based wind turbine during fault and post-fault", *International transaction on Electrical Energy Systems*, September 2016 Vol. 000, Num. 0, Page 0-0, September 2016,
- 32 Iman Lorzadeh, Hossein Askarian Abyaneh, M.S, "Hierarchal Control for Accurate Sharing of Reactive Power and Harmonic Currents in Islanded Microgrids based on Instantaneous Circulation Currents", *Energies*, September 2016 Vol. 3, Num. 13, Page 0-0, September 2016,
- 33 Iman Lorzadeh, Hossein Askarian Abyaneh, M.S, A.B, J.M.G, "Capacitor Current Feedback-Based Active Resonance Damping Strategies for Digitally-Controlled Inductive- Capacitive-Inductive- Filtered Grid-Connected Inverters", *Energies*, August 2016 Vol. 9, Num. 642, Page 1-32, August 2016,
- 34 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,
- 35 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,
- 36 Seyed Amir Hosseini, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Farzad Razavi, Adel Nasiri, "An overview of microgrid protection methods and the factors involved", *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, June 2016 Vol. 64, Num. 12, Page 174-186, June 2016,
- 37 Seyed Amir Hosseini, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Farzad Razavi, "Merging the retrieval of the protection coordination of distribution networks equipped with DGs in the process of their siting and sizing", *Journal of Renewable and Sustainable Energy*, June 2016 Vol. 8, Num. 3, Page 1-14, June 2016,
- 38 Mohsen Hamzeh, Hamed Hashemi Dezaki, Hossein Askarian Abyaneh, Gevork B. Gharehpetian, Behrooz Vahidi, "Risk management of smart grids based on plug-in hybrid electric vehicles' charging considering transformers' hottest spot temperature-dependent aging failures", *Journal of Renewable and Sustainable Energy*, May 2016 Vol. 8, Num. 3, Page 1-18, May 2016,
- 39 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,
- 40 Arman Safaei, Behrooz Vahidi, Hossein Askarian Abyaneh, E. Azad Farsani, S.M. Ahadi Sarkani, "A Two Step Optimization Algorithm for Wind Turbine Generator Placement Considering Maximum Allowable Capacity", *RENEWABLE ENERGY*, February 2016 Vol. 92, Num. 0, Page 75-82, February 2016,
- 41 Hamed Hashemi Dezaki, Hossein Askarian Abyaneh, Homayoun Haeri-Khiavi, "Impacts of direct cyber-power interdependencies on smart grid reliability under various penetration levels of microturbine/wind/solar distributed generations", *IET GENERATION TRANSMISSION & DISTRIBUTION*, January 2016 Vol. 10, Num. 4, Page 928-937, January 2016,

- 42 Seyed Amir Hosseini, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Farzad Razavi, Mohsen Karami, "OPTIMAL SIZING AND SITING OF DG RESOURCES AT 63KV/20KV SUBSTATIONS CONSIDERING THE EFFECT OF EARTHQUAKE ON TECHNICAL AND ECONOMIC PARAMETERS", IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, December 2015 Vol. 39, Num. 0, Page 133-153, December 2015,
- 43 Seyed Amir Hosseini, Hossein Askarian Abyaneh, S.H.H. Sadeghi, Farzad Razavi, Mohsen Karami, "PRESENTING A NEW METHOD FOR IDENTIFYING FAULT LOCATION IN MICROGRIDS, USING HARMONIC IMPEDANCE", IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, December 2015 Vol. 39, Num. 0, Page 167-182, December 2015,
- 44 H.H.D, Seyed Mohammad Mousavi Agah, Hossein Askarian Abyaneh, Homayoun Haeri-Khiavi, "Sensitivity analysis of smart grids reliability due to indirect cyber-power interdependencies under various DG technologies, DG penetrations, and operation times", ENERGY CONVERSION AND MANAGEMENT, December 2015 Vol. 108, Num. 0, Page 377-391, December 2015,
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- 47 Hamed Hashemi Dezaki, Mohsen Hamzeh, Hossein Askarian Abyaneh, H.Haeri, "Risk management of smart grids based on managed charging of PHEVs and vehicle-to-grid strategy using Monte Carlo simulation", ENERGY CONVERSION AND MANAGEMENT, July 2015 Vol. 0, Num. 0, Page 262-276, July 2015,
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- 201 Hossein Askarian Abyaneh, "Co- ordination of protection system for industrial network " , , March 1995
- 202 Hossein Askarian Abyaneh, "Combination coordination of overcurrent and distance relays considering and transformer protection " , , March 1994
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Taught Courses

#	Course title	Description	Headlines	Date
1	Adv. Power Systems Protection	Familiarity with advanced topics and increasing professional knowledge in the field of protection systems required to deliver reliable electricity generation, transmission and distribution		Fall 2021
2	Power Systems Protection	1.Introducing protection in power systems 2 Introducing protection devices including relays , fuses etc 3Application of protective relays in electrical industry		Fall 2021
3	Management of Conventional and Smart Distribution Systemns	Discription of conventional and smart managment methods in distribution systems		Spring 2021
4	Power Systems Protection	1.Introducing protection in power systems 2 Introducing protection devices including relays , fuses etc 3Application of protective relays in electrical industry		Fall 2020