

Curriculum Vitae

PERSONAL DATA



Name	Surname	Date of Birth	Nationality	Sex	Marital Status
Taher	Niknam	June 1976	Iranian	Male	Married

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Department of Electrical and Electronics Engineering, Shiraz University of Technology, Modarres Boulevard, Shiraz, Iran, P.O.Box: 71555-313

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ACADEMIC APPOINTMENTS

Year	Position
March 2013-Now	Full Professor of Power System Group/ Department of Electrical and Electronic Engineering/ Shiraz University of Technology
March2010-March2013	Associate Professor of Power System Group/ Department of Electrical and Electronic Engineering/ Shiraz University of Technology
Jan 2006- March2010	Assistant Professor of Power System Group/ Department of Electrical and Electronic Engineering/ Shiraz University of Technology

EDUCATIONAL BACKGROUND

Certificate Degree	Field of Specialization	Name of Institution Attended	Supervisor/Advisor	Date Received
PHD	Electrical Engineering /Power system	Sharif University of Technology, Tehran, Iran	Prof. A.M. Ranjbar	2005
MSc	Electrical Engineering /Power system	Sharif University of Technology, Tehran, Iran	Prof. S.H. Hossieni	2000
BSc Bachelor	Electrical Engineering /communication	Shiraz University	Prof. Masnadi	1998

TEACHING INTERESTS

Undergraduate Courses	Graduate courses
Power System Analysis	Advanced Power System Operation
Electrical Machinery	Power System Restructuring
Power electronic	Applied Optimization for Power System Engineers
Electrical Circuits	Powers system Planning
Advanced Mathematics	Evolutionary Optimization algorithms

RESEARCH INTERESTS

Power System Operation and Restructuring, Electricity Markets, Power System Security and Reliability, Renewable Power Generation, Smart Electricity Grids, and Application of Optimization in Power Systems Issues

SOFTWARE PROFESSIONALITY

Public Software	Professional Software
Windows, Microsoft Office, Latex, ...	Matlab, DIgSilent, and GAMS

AWARDS, HONORARY DEGREES, MEDALS AND POSITIONS

Title of Award, Medal, Position	Issuing Authority	Country	Year
Youngest Professor of Iran		Iran	2014
Distinguished researcher award of Iran in engineering group	Shiraz University of technology	Iran	2015

Excellent author award of Fars state of Iran	Fars governor general	Iran	From 2008 to 2012
Distinguished researcher award among all universities of Fars state of Iran	Fars governor general	Iran	From 2008 to 2012
Distinguished researcher award of Shiraz university of Technology	Shiraz University of technology	Iran	From 2007 to 2015
Distinguished faculty award of Shiraz university of Technology	Shiraz University of technology	Iran	2010 and 2016
Young Investigator Award of Iranian IEEE Branch	IEEE	Iran	2014
Top 1% scientists in the world	Essential Science Indicators (Thomson Reuters- ISI)	ISI	From 2013 to 2015
Top 0.01% scientists in the world	Essential Science Indicators (Thomson Reuters- ISI)	ISI	2016 till now

INDUSTRIAL RESEARCH ACTIVITIES

- 1 Revising Procedures of Distribution Networks Operation, Fars Distribution Company, Shiraz, Iran
- 2 The Application of Evolutionary Algorithms to Optimize Reading and Bill Distribution of Consumers and PMs, Fars Distribution Company, Shiraz, Iran
- 3 Revising the design and executive procedures of public lighting systems, Fars Distribution Company, Shiraz, Iran
- 4 Comprehensive Distribution Expansion Planning of Kohkilouyeh-and-BoyerAhmad Province, Kohkilouyeh-and-BoyerAhmad Province Distribution Company, Yasouj, Iran
- 5 Scheduling of CCHP based DG units in Distribution Networks considering Power Losses and Voltage Profiles Fars Distribution Company, Shiraz, Iran
- 6 Security constrained reactive power planning with goal of power losses reduction, improvement of network stability and releasing network capacity Fars Regional Electric Company, Shiraz, Iran
- 7 Feasibility Study of Implementing DGs in Fars Network Enhancing Transmission Capacity (Congestion Management) and Power System Security, Fars Regional Electric Company, Shiraz, Iran
- 8 Assessment of Implementation Strategies for Ahwaz Distribution Network Automation Considering Network Load Density, Ahwaz Distribution Company, Ahwaz, Iran
- 9 Distribution Network Automation in Yasuj city, Kohkilouyeh-and-BoyerAhmad Province Distribution Company, Yasouj, Iran

PUBLICATION:

JOURNAL PAPERS:

1. Moslem Dehghani, **T. Niknam**, Mohammad Ghiasi, Hamid Reza Baghaee, Frede Blaabjerg, Tomislav Dragicević, and Mohammadrashid Rashidi, "Adaptive Backstepping Control for Master-Slave AC Microgrid in Smart Island" *Energy* (Accepted-Article in press), 2022 (*ISI Index*).
2. H. Saeian, **T. Niknam**, M. Zare, J. Aghaei, "Coordinated Optimal Bidding Strategies Methods of Aggregated Microgrids: A Game Theory-Based Demand Side Management Under an Electricity Market Environment," *Energy* (Accepted-Article in press), 2022 (*ISI Index*).
3. H. Chabok, J. Aghaei, M. Sheikh, M. Roustaei, M. Zare, **T. Niknam**, M. Lehtonen, M. Shafie-khah, and J.P.S. Catalão, "Transmission-Constrained Optimal Allocation of Price-Maker Wind-Storage Units in Electricity Markets", *Applied Energy* (Accepted-Article in press), 2022 (*ISI Index*).
4. F. Faramarzi, **T. Niknam**, and J. Aghaei, "Resiliency Enhancement of Power System Against Intentional Attacks", *IET Renewable Power Generation* (Accepted-Article in press) 2022 (*ISI Index*).
5. H. Hamidpour, J. Aghaei, **T. Niknam**, S. Pirouzi, A. Nikoobakht, M. Lehtonen, M. Shafie-khah, and J.P.S. Catalão, "Coordinated Expansion Planning Problem considering Wind Farms, Energy Storage Systems and Demand Response," *Energy*, vol. 239, Part D, Article no. 122321, January 2022 (*ISI Index*).
6. Mohammadali Norouzi, Jamshid Aghaei, Sasan Pirouzi, **Taher Niknam**, Mahmud Fotuhi-Firuzabad, Flexibility pricing of integrated unit of electric spring and EVs parking in microgrids *Energy*, 2022. (*ISI Index*).

7. MA Heidari, M Nafar, **T Niknam**, A Novel Sliding Mode Based UPQC Controller for Power Quality Improvement in Micro-Grids, *Journal of Electrical Engineering & Technology* 17 (1), 167-177, 2022. *(ISI Index)*.
8. Moslem Dehghani, Mohammad Ghiasi, **Taher Niknam**, Kumars Rouzbehi, Zhanle Wang, Pierluigi Siano, Hassan Haes Alhelou, Control of LPV Modeled AC-Microgrid Based on Mixed H₂/H_∞ Time-Varying Linear State Feedback and Robust Predictive Algorithm, *IEEE Access*, 2021. *(ISI Index)*.
9. Mohammad Zohuratar, Jamshid Aghaei, **Taher Niknam**, Ahmad Nikoobakht, Expansion Planning of Automated Sub-transmission and Distribution Networks integrated by Distributed Generations, *Scientia Iranica*, 2021. *(ISI Index)*.
10. Mohsen Farbood, Mokhtar Shasadeghi, Afshin Izadian, **Taher Niknam**, Fuzzy model predictive MPPT control of interconnected wind turbines drivetrain, *Asian Journal of Control*, 2021. *(ISI Index)*.
11. Amid Shahbazi, Jamshid Aghaei, Sasan Pirouzi, **T. Niknam**, Vahid Vahidinasab, Miadreza Shafie-khah, João PS Catalão, Holistic approach to resilient electrical energy distribution network planning, *International Journal of Electrical Power & Energy Systems*, 132, 2021. *(ISI Index)*.
12. Ramin Sadooghi, **Taher Niknam**, Morteza Sheikh, Mohammad Askarpour, Mahmoud Roustaei, Alireza Chabok, Jamshid Aghaei, An Effective Non-Square Matrix Converter Based Approach for Active Power Control of Multiple DGs in Microgrids: Experimental Implementation, *IEEE Transactions on Energy Conversion* 2021. *(ISI Index)*
13. Mohsen Farbood, Mohammad Veysi, Mokhtar Shasadeghi, Afshin Izadian, **Taher Niknam**, Jamshid Aghaei, Robustness Improvement of Computationally Efficient Cooperative Fuzzy Model Predictive-Integral Sliding Mode Control of Nonlinear Systems, *IEEE Access*, 2021. *(ISI Index)*.
14. Mohammadali Norouzi, Jamshid Aghaei, Sasan Pirouzi, **Taher Niknam**, Mahmud Fotuhi-Firuzabad, Miadreza Shafie-khah, Hybrid stochastic/robust flexible and reliable scheduling of secure networked microgrids with electric springs and electric vehicles, *Applied Energy*, 300, 2021. *(ISI Index)*.
15. Mohammad Jafar Mokarram, Mohsen Gitizadeh, **Taher Niknam**, Kenneth E Okedu, A decentralized granular-based method to analyze multi-area energy management systems including DGs, batteries and electric vehicle parking lots, *Journal of Energy Storage*, 42, 2021. *(ISI Index)*.
16. Ali Asghar Baziar, **Taher Niknam**, Mohsen Simab, Strategic offering of producers in the day-ahead coupled gas and electricity market including energy and reserve models, *Electric Power Systems Research*, 199, 2021. *(ISI Index)*
17. S. N. Hashemipour, J. Aghaei, A. Kavousi-fard, **T. Niknam**, L. Salimi, P.C. del Granado, M. Shafie-khah, F. Wang, J.P.S. Catalão, "Optimal Singular Value Decomposition Based Big Data Compression Approach in Smart Grids", *IEEE Transactions on Industry Applications*, vol. 54, no. 4, pp. 0093-9994, July/August 2021 (JUFO 2) *(ISI Index)*.
18. N Javidtash, M Jabbari, **T Niknam**, M Nafar, Optimal distributed generation placement strategy to enhancing resilience against smoke effect, *Journal of Energy Management and Technology* 5 (3), 54-66, 2021. *(ISI Index)*.
19. Motahareh Pourbehzadi, **Taher Niknam**, Jamshid Aghaei, Abdollah Kavousi-Fard, Ali Dehghan, Giti Javidi, Ehsan Sheybani, Short-Term Scheduling of a Renewable-Based Microgrid: Stochastic/Economic Battery Modeling, *IEEE Access*, 9, 2021. *(ISI Index)*.
20. MohammadReza AkbaziZadeh, **Taher Niknam**, Abdollah Kavousi-Fard, Adaptive Robust Optimization for the Energy Management of the Grid-Connected Energy Hubs Based on Hybrid Meta-Heuristic Algorithm, *Energy*, 2021. *(ISI Index)*.

21. M. Alipour, J. Aghaei, **T. Niknam**, S. Hashemi, M. Norouzi, and Matti Lehtonen, "A Novel Cooperative Fuzzy Classifier for Predicting the Permissible Wind Speed Range in Wind Farms," Iranian Journal of Science and Technology Transactions of Electrical Engineering, vol. 45, pp. 29-45, 2021. (*ISI Index*).
22. Rohollah Homayoun, Bahman Bahmani Firouzi, **Taher Niknam**, Planning the multi-objective operation of micro-grids in the presence of thermal loads and the charging and discharging of thermal storage devices using the evolutionary training and learning algorithm (TLBO), Journal of Novel Researches on Electrical Power 10 (1), 53-68, 2021. (*ISI Index*).
23. R Homayoun, B Bahmani-Firouzi, **T Niknam**, Multi-objective operation of distributed generations and thermal blocks in microgrids based on energy management system, IET Generation, Transmission & Distribution 15 (9), 1451-1462, 2021. (*ISI Index*).
24. Hassan Karimi, **Taher Niknam**, Jamshid Aghaei, Mina GhasemiGarpachi, Moslem Dehghani, Switches optimal placement of automated distribution networks with probability customer interruption cost model: A case study, International Journal of Electrical Power & Energy Systems, 127, 2021. (*ISI Index*).
25. Kazem Zare, Mokhtar Shasadeghi, Afshin Izadian, **Taher Niknam**, Mohammad Hassan Asemami, Fuzzy modeling and control of a class of non-differentiable multi-input multi-output nonlinear systems, Asian Journal of Control, 2021. (*ISI Index*).
26. Hassan Karimi, **Taher Niknam**, Moslem Dehghani, Mohammad Ghiasi, Mina GhasemiGarpachi, Sanjeevikumar Padmanaban, Sajad Tabatabaee, Hamdulah Aliev, Automated Distribution Networks Reliability Optimization in the Presence of DG Units Considering Probability Customer Interruption: A Practical Case Study, IEEE Access,9, 2021. (*ISI Index*).
27. Rohollah Homayoun, Bahman Bahmani-Firouzi, **Taher Niknam**, Multi-objective operation of distributed generations and thermal blocks in microgrids based on energy management system, IET Generation, Transmission & Distribution,15, 2021. (*ISI Index*).
28. Morteza Sheikh, Jamshid Aghaei, Hossein Chabok, Mahmoud Roustaei, **Taher Niknam**, Abdollah Kavousi-Fard, Miadreza Shafie-Khah, João PS Catalão, Synergies Between Transportation Systems, Energy Hub and the Grid in Smart Cities, IEEE Transactions on Intelligent Transportation Systems, 2021. (*ISI Index*).
29. Mohsen Farbood, Mokhtar Shasadeghi, **Taher Niknam**, Behrouz Safarinejadian, Fuzzy Lyapunov-Based Model Predictive Sliding Mode Control of Nonlinear Systems: An Ellipsoid Recursive Feasibility Approach, IEEE Transactions on Fuzzy Systems, 2021. (*ISI Index*).
30. Navid Parsa, Bahman Bahmani-Firouzi, **Taher Niknam**, A social-economic-technical framework for reinforcing the automated distribution systems considering optimal switching and plug-in hybrid electric vehicles, Energy, 220, 2021. (*ISI Index*).
31. A Khorshidi, **T Niknam**, B Bahmani, Synchronization of Microgrid Considering the Dynamics of V2Gs Using an Optimized Fractional Order Controller based Scheme, Journal of Operation and Automation in Power Engineering 9 (1), 11-22
32. Mohammad Ghiasi, Moslem Dehghani, **Taher Niknam**, Hamid Reza Baghaee, Sanjeevikumar Padmanaban, Gevork B Gharehpetian, Hamdulah Aliev, Resiliency/cost-based optimal design of distribution network to maintain power system stability against physical attacks: A practical study case, IEEE Access, 9, 2021. (*ISI Index*).
33. Mohammad Ali Hormozi, Bahman Bahmani Firouzi, **Taher Niknam**, A Novel Strategy for Multi-area Dynamic Energy Management, Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 45, 2021. (*ISI Index*).

34. Mohammad Ghiasi, Moslem Dehghani, **Taher Niknam**, Abdollah Kavousi-Fard, Pierluigi Siano, Hassan Haes Alhelou, Cyber-attack detection and cyber-security enhancement in smart DC-microgrid based on blockchain technology and Hilbert Huang transform, IEEE Access, 9, 2021. *(ISI Index)*.
35. M Kazemi, **T Niknam**, B Bahmani-Firouzi, M Nafar, Participation of Grid-Connected Energy Hubs in the Energy and Reserve Markets, Journal of Novel Researches on Electrical Power 9 (4), 49-59, 2021. *(ISI Index)*.
36. J Ebrahimi, **T Niknam**, B Bahmani Firouzi, Electrical and thermal power management in an energy hub system considering hybrid renewables, Electrical Engineering, 2021. *(ISI Index)*.
37. Amid Shahbazi, Jamshid Aghaei, Sasan Pirouzi, **Taher Niknam**, Miadreza Shafie-khah, João PS Catalão, Effects of resilience-oriented design on distribution networks operation planning, Electric Power Systems Research, 191, 2021. *(ISI Index)*.
38. Mina Jafari, Abdollah Kavousi-Fard, **Taher Niknam**, Omid Avatefipour, Stochastic synergies of urban transportation system and smart grid in smart cities considering V2G and V2S concepts Energy, 215, 2021. *(ISI Index)*.
39. Moslem Dehghani, Mohammad Ghiasi, **Taher Niknam**, Abdollah Kavousi-Fard, Elham Tajik, Sanjeevikumar Padmanaban, Hamdulah Aliev, Cyber-attack detection based on wavelet singular entropy in AC smart islands: False data injection attack, IEEE Access, 9, 2021. *(ISI Index)*.
40. Moslem Dehghani, **Taher Niknam**, Mohammad Ghiasi, Navid Bayati, Mehdi Savaghebi, Cyber-Attack Detection in DC Microgrids Based on Deep Machine Learning and Wavelet Singular Values Approach, Electronics,10, 2021. *(ISI Index)*.
41. Moslem Dehghani, **Taher Niknam**, Mohammad Ghiasi, Pierluigi Siano, Hassan Haes Alhelou, Amer Al-Hinai, Fourier Singular Values-Based False Data Injection Attack Detection in AC Smart-Grids, Applied Sciences,11, 2021. *(ISI Index)*.
42. Mohammad Ghiasi, **Taher Niknam**, Moslem Dehghani, Pierluigi Siano, Hassan Haes Alhelou, Amer Al-Hinai, Optimal multi-operation energy management in smart microgrids in the presence of res based on multi-objective improved de algorithm: Cost-emission based optimization, Applied Sciences,11, 2021. *(ISI Index)*.
43. Javad Estakhr, Mohsen Simab, **Taher Niknam**, Security Analysis of Hybrid Multi-Carrier Energy Systems, Sustainability,13 2021. *(ISI Index)*.
44. Moslem Dehghani, Mohammad Ghiasi, **Taher Niknam**, Abdollah Kavousi-Fard, Mokhtar Shasadeghi, Noradin Ghadimi, Farhad Taghizadeh-Hesary, Blockchain-based securing of data exchange in a power transmission system considering congestion management and social welfare, Sustainability,13, 2021. *(ISI Index)*.
45. Moslem Dehghani, Abdollah Kavousi-Fard, **Taher Niknam**, Omid Avatefipour, A robust voltage and current controller of parallel inverters in smart island: A novel approach, Energy, 214,2021. *(ISI Index)*.
46. Alireza Ramezani, Mohammad Ghiasi, Moslem Dehghani, **Taher Niknam**, Pierluigi Siano, Hassan Haes Alhelou, Reduction of Ripple Toothed Torque in the Internal Permanent Magnet Electric Motor by Creating Optimal Combination of Holes in the Rotor Surface Considering Harmonic Effects, IEEE Access, 8,2020. *(ISI Index)*.
47. Mozaffar Vali, **Taher Niknam**, Hamed Gorginpour, Bahman Bahmani-Firouzi, Optimal design procedure of a high-torque-density dual-stator consequent-pole Vernier PM machine, Electrical Engineering, 102,2020. *(ISI Index)*.
48. Kazem Zare, Mokhtar Shasadeghi, Afshin Izadian, **Taher Niknam**, Mohammad Hassan Asemiani, Switching TS fuzzy model-based dynamic sliding mode observer design for non-differentiable nonlinear systems, Engineering Applications of Artificial Intelligence, 96, 2020. *(ISI Index)*.

49. Sajad Gorji, Saeed Zamanian, Majid Moazzami, Mohammad Ali Hormozi, Bahman Bahmani Firoozi, **Taher Niknam**, Abdolkhalegh Hamidi, Jamal Beiza, Taher Abedinzade, Ali Daghigh, Hamidreza Eskandari, Mohammad Reza Moradian, Ali Ahmadpour, SeyedJalal Seyed Shenava, Abdolmajid Dejamkhooy, Elham Mokaramian, Hossein Lotfi, Reza Ghazi, Mohammad Bagher Naghibi Sistani, Techno-economic and environmental base approach for optimal energy management of microgrids using crow search algorithm, *Journal of Intelligent Procedures in Electrical Technology* 11 (43), 49-68, 2020. *(ISI Index)*.
50. Seyed Naser Hashemipour, Jamshid Aghaei, Abdullah Kavousi-Fard, **Taher Niknam**, Ladan Salimi, Pedro Crespo Del Granado, Miadreza Shafie-khah, Fei Wang, João PS Catalão, Big Data Compression in Smart Grids via Optimal Singular Value Decomposition, IEEE Industry Applications Society Annual Meeting, 2020. *(ISI Index)*.
51. Moslem Dehghani, Mohammad Ghiasi, **Taher Niknam**, Abdollah Kavousi-Fard, Sanjeevikumar Padmanaban, False data injection attack detection based on Hilbert-huang transform in AC smart islands, *IEEE Access*, 8,2020. *(ISI Index)*.
52. J Ebrahimi, **T Niknam**, B Bahmanifirouzi, Energy Scheduling in a Hybrid DC/AC Micro-Grid Considering Battery/Wind/Photovoltaic Power Sources using Heuristic Optimization Algorithm, *Majlesi Journal of Electrical Engineering* 14 (3), 101-110, 2020. *(ISI Index)*.
53. Mohammadali Alipour, Jamshid Aghaei, Mohammadali Norouzi, **Taher Niknam**, Sattar Hashemi, Matti Lehtonen, A novel electrical net-load forecasting model based on deep neural networks and wavelet transform integration, *Energy*, 2020. *(ISI Index)*.
54. Marzieh Mokarram, Mohammad Jafar Mokarram, Mohsen Gitizadeh, **Taher Niknam**, Jamshid Aghaei, A novel optimal placing of solar farms utilizing multi-criteria decision-making (MCDA) and feature selection, *Journal of Cleaner Production*, 2020. *(ISI Index)*.
55. Mohamadreza Askari, **Taher Niknam**, An Effective Stochastic Approach for Optimal Energy Resource Management in Hybrid AC–DC Microgrids, *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*,44, 2020. *(ISI Index)*.
56. Sajjad Sharifinia, Mehdi Allahbakhshi, Mohammad Mehdi Arefi, Mohsen Tajdinian, Miadreza Shafie-khah, **Taher Niknam**, João PS Catalão, Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks, *IEEE Systems Journal*, 2020. *(ISI Index)*.
57. M Roustaei, **T Niknam**, S Salari, H Chabok, M Sheikh, A Kavousi-Fard, J Aghaei, A scenario-based approach for the design of Smart Energy and Water Hub, *Energy*, 195,2020. *(ISI Index)*.
58. Seyede Zahra Tajalli, Mohammad Mardaneh, Elaheh Taherian-Fard, Afshin Izadian, Abdollah Kavousi-Fard, Morteza Dabbaghjamesh, **Taher Niknam**, DoS-Resilient Distributed Optimal Scheduling in a Fog Supporting IIoT-Based Smart Microgrid, *IEEE Transactions on Industry Applications*, 56, 3, 2020. *(ISI Index)*.
59. Mohammad Reza Askari, **Taher Niknam**, A novel optimal scheduling framework for hybrid microgrids based on alternating direction method of multipliers, *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, 2020.
60. Mosayeb Bornapour, Reza Hemmati, Motahareh Pourbehzadi, Aliakbar Dastranj, **Taher Niknam**, Probabilistic optimal coordinated planning of molten carbonate fuel cell-CHP and renewable energy sources in microgrids considering hydrogen storage with point estimate method, *Energy Conversion and Management*, 2020. *(ISI Index)*.

61. N Hashemipour, Jamshid Aghaei, Mohamed Lotfi, **Taher Niknam**, Mohammad Askarpour, Miadreza Shafiekhah, Joao PS Catalão, Multi-objective optimisation method for coordinating battery storage systems, photovoltaic inverters and tap changers, 2020. (*ISI Index*).
62. Elaheh Taherian-Fard, Ramin Sahebi, **Taher Niknam**, Afshin Izadian, Mokhtar Shasadeghi, Wind Turbine Drivetrain Technologies, IEEE Transactions on Industry Applications, 2020. (*ISI Index*).
63. Navid Parsa, Bahman Bahmani-Firouzi, **Taher Niknam**, Probabilistic operation management of automated distribution networks in the presence of electric vehicles and renewable energy sources, Journal of Intelligent & Fuzzy Systems, 2020. (*ISI Index*).
64. M Ghiasi, M Dehghani, **T Niknam**, A Kavousi-Fard, Investigating overall structure of cyber-attacks on smart-grid control systems to improve cyber resilience in power system, Network 1 (1), 2020. (*ISI Index*).
65. A Khorshidi, **T Niknam**, B Bahmani, Robust multi-agent asynchronously compensated decentralized frequency synchronization control scheme for microgrids, Journal of Electrical Engineering & Technology 15 (1), 403-412, 2020. (*ISI Index*).
66. HR Massrur, **T Niknam**, M Fotuhi-Firuzabad, A Nikoobakht, Hourly electricity and heat Demand Response in the OEF of the integrated electricity-heat-natural gas system, IET Renewable Power Generation 13 (15), 2853-2863, 2019. (*ISI Index*).
67. Mohammadali Norouzi, Jamshid Aghaei, Sasan Pirouzi, **Taher Niknam**, Matti Lehtonen, Flexible operation of grid-connected microgrid using ES, IET Generation, Transmission & Distribution, 2019. (*ISI Index*).
68. Mohsen Zare, Hossein Chabok, **Taher Niknam**, Rasoul Azizipanah-Abarghooee, Smart coordinated management of distribution networks with high penetration of PEVs using FLC, IET Generation, Transmission & Distribution, 2019. (*ISI Index*).
69. Mohammad Askarpour, Jamshid Aghaei, Jalil Boudjadar, **Taher Niknam**, Techno-economic potential gains of electric springs in distribution networks operations, IET Generation, Transmission & Distribution, 2019. (*ISI Index*).
70. M Movahedpour, S Mohammadi, M Kiani, **T Niknam**, M Zadehbagheri, Optimal Design of Residential Microgrids with Regard to Fault Occurrence and Possibility of Power Outage, Journal of Intelligent Procedures in Electrical Technology 10 (39), 29-44, 2019. (*ISI Index*).
71. Hamid Reza Massrur, **Taher Niknam**, Mahmud Fotuhi-Firuzabad, Day-ahead energy management framework for a networked gas-heat-electricity microgrid, IET Generation, Transmission & Distribution, 2019. (*ISI Index*).
72. M Pourbehzadi, **T Niknam**, A Kavousi-Fard, Y Yilmaz, IoT in Smart Grid: Energy Management Opportunities and Security Challenges, IFIP International Internet of Things Conference, 319-327, 2019. (*ISI Index*).
73. Morteza Sheikh, Jamshid Aghaei, Armin Letafat, Mohammad Rajabdorri, **Taher Niknam**, Miadreza Shafiekhah, João PS Catalão, Security-constrained unit commitment problem with transmission switching reliability and dynamic thermal line rating, IEEE Systems Journal, 2019. (*ISI Index*).
74. MJ Mokarram, **T Niknam**, J Aghaei, M Shafie-khah, JPS Catalao, Hybrid optimization algorithm to solve the nonconvex multiarea economic dispatch problem, IEEE Systems Journal 13 (3), 3400-3409, 2019. (*ISI Index*).
75. Mohammad Jafar Mokarram, Mohsen Gitizadeh, **Taher Niknam**, Solmaz Niknam, Robust and effective parallel process to coordinate multi-area economic dispatch (MAED) problems in the presence of uncertainty IET Generation, Transmission & Distribution, 13, 2019. (*ISI Index*).

76. M Heidari, **T Niknam**, M Zare, S Niknam, Integrated battery model in cost-effective operation and load management of grid-connected smart nano-grid, IET Renewable Power Generation 13 (7), 1123-1131, 2019. *(ISI Index)*.
77. Ahmad Nikoobakht, Jamshid Aghaei, **Taher Niknam**, Hossein Farahmand, Magnus Korpås, Electric vehicle mobility and optimal grid reconfiguration as flexibility tools in wind integrated power systems, International Journal of Electrical Power & Energy Systems, 110, 2019. *(ISI Index)*.
78. M Javidsharifi, **T Niknam**, J Aghaei, G Mokryani, P Papadopoulos, Multi-objective day-ahead scheduling of microgrids using modified grey wolf optimizer algorithm, Journal of Intelligent & Fuzzy Systems 36 (3), 2857-2870, 2019. *(ISI Index)*.
79. M Mohammadi, S Soleymani, T Niknam, T Amraee, Stochastic multi-objective distribution automation strategies from reliability enhancement point of view in the presence of plug in electric vehicles, Journal of Intelligent & Fuzzy Systems 36 (3), 2933-2945, 2019. *(ISI Index)*.
80. M Saeidi, **T Niknam**, J Aghaei, M Zare, Multi-objective coordination of local and centralized volt/var control with optimal switch and distributed generations placement, Journal of Intelligent & Fuzzy Systems 36 (6), 6605-6617, 2019. *(ISI Index)*.
81. SZ Tajalli, **T Niknam**, A Kavousi-Fard, Stochastic electricity social welfare enhancement based on consensus neighbor virtualization, IEEE Transactions on Industrial Electronics 66 (12), 9571-9580, 2019. *(ISI Index)*.
82. M Ahmadi, K Kazemi, A Aarabi, **T Niknam**, MS Helfroush, Image segmentation using multilevel thresholding based on modified bird mating optimization, Multimedia Tools and Applications 78 (16), 23003-23027, 2019. *(ISI Index)*.
83. Mahshid Javidsharifi, **Taher Niknam**, Jamshid Aghaei, Miadreza Shafie-khah, João PS Catalão, Probabilistic model for microgrids optimal energy management considering AC network constraints, IEEE Systems Journal,14, 2019. *(ISI Index)*.
84. Kouros Amiri, **Taher Niknam**, Optimal planning of a multi-carrier energy hub using the modified bird mating optimizer, Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 43, 2019. *(ISI Index)*.
85. Hamidreza Hamidpour, Jamshid Aghaei, Sasan Pirouzi, Shahab Dehghan, **Taher Niknam**, Flexible, reliable, and renewable power system resource expansion planning considering energy storage systems and demand response programs IET Renewable Power Generation,13, 2019. *(ISI Index)*.
86. Sasan Pirouzi, Jamshid Aghaei, **Taher Niknam**, Mohammad Hassan Khooban, Tomislav Dragicevic, Hossein Farahmand, Magnus Korpås, Frede Blaabjerg, Power conditioning of distribution networks via single-phase electric vehicles equipped, 2019. *(ISI Index)*.
87. H Hamidpour, J Aghaei, S Dehghan, S Pirouzi, **T Niknam**, Integrated resource expansion planning of wind integrated power systems considering demand response programmes, IET Renewable Power Generation 13 (4), 519-529, 2019. *(ISI Index)*.
88. Ali Jamali, Jamshid Aghaei, Masoud Esmaili, Ahmad Nikoobakht, **Taher Niknam**, Miadreza Shafie-khah, João PS Catalão, Self-scheduling approach to coordinating wind power producers with energy storage and demand response, IEEE Transactions on Sustainable Energy, 2019. *(ISI Index)*.
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LANGUAGE PROFICIENCY

Language	Degree of Proficiency											
	Writing				Reading				Speaking			
	Native	Good	Fair	Poor	Native	Good	Fair	Poor	Native	Good	Fair	Poor
Persian	<input type="checkbox"/>				<input type="checkbox"/>				<input type="checkbox"/>			
English		<input type="checkbox"/>				<input type="checkbox"/>					<input type="checkbox"/>	