RESUME

# Asghar Akbari Foroud

**Professor**
**Electrical and Computer Engineering Faculty**
**Semnan University**
**Semnan, Iran**

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Asghar Akbari Foroud, Professor at the Semnan University, Semnan, Iran, received his M.S. from the Teahran University, Tehran, Iran and his Ph.D. from the Tarbiat Modares University, Iran. He has published over 85 papers and has been the project manager or principal investigator of many research projects financed by power industry. He has supervised 9 PhD and 39 M.S. Students.

Personal Information
Birth: Jan. 1971, Hamadan, Iran
Phone: +98 9124618433
Email: aakbari@semnan.ac.ir
http://scholar.google.com/citations?user=BZsfCJoAAAAJ&hl=en&cstart=0&pagesize=20

**Field of Specialty:**
Power System Dynamics, Operation and Control, Power Market, Power System Planning, Power Quality, Power System Distribution

**Education:**
2001-2006 **Ph.D.**, Electrical Engineering, Tarbiat Modares University
            Thesis Topic: Development of New Control Strategies for Voltage Stability
             in Multi-machine Power Systems
1994-1997 **M.Sc.**, Electrical Engineering, Tarbiat Modares University
            Thesis Topic: A New Method for Contingency Ranking for Voltage Stability
            Analysis of Power Systems
1989-1993 **B.Sc.**, Electrical Engineering, Tehran University

**Professional Activities:**
Semnan University- Electrical Engineering Group
  ✓ Faculty member since 1997
  ✓ Assistant Professor since 2006
  ✓ Associate Professor since 2012
  ✓ Professor since 2016
  ✓ Teaching of several courses at graduate and undergraduate levels, including
     Power System Dynamic & Control, Power Market, Optimization, Electrical

Machines, Linear Control Systems, Power System Analysis and Power System Protection. (1997-2001 and (2005 up to now)
- ✓ Responsible for several research projects.

Semnan Electricity Distribution Company
- ✓ Member of Research Committee (since 2007)
- ✓ Senior Advisor on issues of power (since 2009)

Iranian Power System Engineering Research Center (IPSERC) (since 2004)
http://www.modares.ac.ir/en/reu/ctr/IPSERC/ppl/fcl
- ✓ Project Manager or Principal Investigator for several industrial projects

Graduate student supervision:
Ph.D. Completed:  10.
M.Sc. Completed: 53.

## Projects:

Industry funded research projects: Project manager for:
1. Considering and Improvement of Semnan Transmission Network Adequacy and Transfer Capability (for Semnan Regional Electric Company), 2008.
2. Comprehensive Consideration of DGs in Semnan Distribution Network. (for Semnan Electric Distribution Company), 2009.
3. Power Quality Evaluation of Semnan Electric Company. (for Semnan Regional Electric Company), 2010,
4. Power flow control in Khorasan Transmission Network (for Khorasan Regional Electric Company), 2012.
5. Comprehensive Study of Semnan Medium Voltage Distribution Network (for Semnan Electric Distribution Company), 2013.
6. Comprehensive Energy Planning for Industrial Cities of Semnan Province (for Semnan Province Industrial Cities Management Company), 2013.
7. Dynamic Study of Yazd Transmission Network (for Yazd Regional Electric Company), 2014.
8. A new method for power quality evaluation in distribution network (for Semnan Electric Distribution Company), 2015.
9. Comprehensive Study of Shahrod Medium Voltage Distribution Network (for Semnan Electric Distribution Company), 2016.
10. Design and modeling of day ahead energy market with incorporating virtual traders in Iran's wholesale market and energy exchange (for Iran Grid Management Company (IGMC), 2017.
11. Allocation of distributed generations (DGs) for the west of Semnan province (for Semnan Electric Distribution Company), 2018-2019.
12. Investigating and analyzing the status of harmonics in Ferosilis plant of Iran (for Ferosilis plant of Iran). 2020.

13. Investigation of harmonic flow from transmission network to ferrosilicon plant network and corrective solutions (for Ferosilis plant of Iran). 2021.
14. Consideration of Voltage Surges in Semnan Low-Voltage Distribution Network (for Semnan Electric Distribution Company), 2019-2021.

2002-2009    Iranian Power System Engineering Research Center (IPSERC): Project Manager or principal Investigator for:
http://www.modares.ac.ir/en/reu/ctr/IPSERC/res/prj/prj2

15. Extensive long- term planning studies for Fars electric utility (for 2009-2013).
16. Power transfer enhancement strategies for Khorasan power grid. (http://www.modares.ac.ir/en/reu/ctr/IPSERC/res/prj/prj1)
17. Reliability evaluation of IRAN transmission network (for TAVANIR Company)
18. Extensive long-term planning studies for Yazd electric utility for 2014 and 2017
19. Extensive long-term planning studies for Fars electric utility (2004- 2009).
20. Extensive long-term planning studies for Yazd electric utility (2004- 2009).
21. Long-term transmission planning of Iranian power grid for 2009 and 2019 (for TAVANIR Company).

1998-2000    Semnan University: Project manager for:
22. Reliability evaluation of low voltage distribution systems.
23. Voltage stability considerations in composite power system reliability evaluation.

## Patents:

1. Turbo-expander for cooling of air entering the gas turbine.

## Book & Book Chapter:

**1.** Operation Management of Microgrid Clusters
M Moradi, A Akbari Foroud
Microgrids: Advances in Operation, Control, and Protection, 17-59        2021

## Publications:

## Journal papers:

| | |
|---|---|
| 1- H. Seifi and **A. Akbari Foroud**, 'Contingency Ranking for Voltage | 1998 |

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|---|---|
| Stability Analysis Using Artificial Neural Networks' Amirkabir Journal (Scientific & Research), No. 38, pp.175-186 (in Farsi), 1998. | |
| 2-A new approach for substation expansion planning<br>MS Sepasian, H Seifi, **A Akbari Foroud**, SH Hosseini, EM Kabir<br>Power Systems, IEEE Transactions on 21 (2), 997-1004 | 2006 |
| 3-Advanced HSVC Tuning in Multi-Machine Power Systems for Loadability Improvements<br>**A Akbari Foroud**, H Seifi, AK Sedigh<br>Electric Power Components and Systems 34 (6), 689-706 | 2006 |
| 4-Multi-voltage approach to long-term network expansion planning<br>H Seifi, MS Sepasian, H Haghighat, **A Akbari Foroud**, GR Yousefi, S Rae<br>IET Generation, Transmission & Distribution 1 (5), 826-835 | 2007 |
| 5-A multiyear security constrained hybrid generation-transmission expansion planning algorithm including fuel supply costs<br>MS Sepasian, H Seifi, **A Akbari Foroud**, AR Hatami<br>Power Systems, IEEE Transactions on 24 (3), 1609-1618 | 2009 |
| 6-TCSC Robust Controller by Nonlinear Quantitative Feedback Theory<br>**A Akbari Foroud**<br>The Modares Journal of Electrical Engineering 8 (1), 93-103 | 2009 |
| 7-A multi-objective framework for dynamic transmission expansion planning in competitive electricity market<br>**A Akbari Foroud**, AA Abdoos, R Keypour, M Amirahmadi<br>International Journal of Electrical Power & Energy Systems 32 (8), 861-872 | 2010 |
| 8-Distribution Companies Energy Acquisition Model with Distributed Generations and Interruptible Loads with Considering Uncertainties<br>M Amirahmadi, **A Akbari Foroud**<br>The Modares Journal of Electrical Engineering 10 (1), 39-56 | 2010 |
| 9-Induction Motor Robust Control: a Quantitative Feedback Theory Approach.<br>F Dara, **A Akbari Foroud**<br>International Review of Automatic Control 3 (6) | 2010 |
| 10-Optimal bidding strategy for all market players in a wholesale power market considering demand response programs<br>**A Akbari Foroud**, M Amirahmadi, M Bahmanzadeh, AA Abdoos<br>European Transactions on Electrical Power 21 (1), 293-311 | 2011 |
| 11-Analyzing capacity withholding in oligopoly electricity markets considering forward contracts and demand elasticity | 2011 |

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|---|---|
| S Salarkheili, **A Akbari Foroud**, R Keypour<br>Iranian Journal of Electrical & Electronic Engineering 7 (4) | |
| 12-Excitation robust control by nonlinear QFT<br>**A Akbari Foroud**, H Seifi<br>European Transactions on Electrical Power 21 (1), 1088-1109 | 2011 |
| 13-A Heuristic Algorithm for Ranking of Transmission and Subtransmission Expansion Plans<br>**A Akbari Foroud**, H Seifi, MR Golsaz Shirazi, K Asiaei<br>The Modares Journal of Electrical Engineering 10 (2), 83-99 | 2011 |
| 14-Case study: simulation and optimization of photovoltaic-wind-battery hybrid energy system in Taleghan-Iran using homer software<br>A Shiroudi, R Rashidi, GB Gharehpetian, SA Mousavifar, **A Akbari Foroud**<br>Journal of Renewable and Sustainable Energy 4 (5), 053111 | 2012 |
| 15-Strategic Bidding in a Pool-Based Electricity Market under Load Forecast Uncertainty<br>S Gorgizadeh, **A Akbari Foroud**, M Amirahmadi<br>Iranian Journal of Electrical & Electronic Engineering 8 (2), 164-176 | 2012 |
| 16-A New Framework for Congestion Management with Exact Modeling of Impacting Factors<br>M Heydaripour**, A Akbari Foroud**<br>Iranian Journal of Electrical & Electronic Engineering 8 (4), 329 | 2012 |
| 17-Modification of DC Optimal Power Flow, Based on Nodal Approximation of Transmission Losses<br>MR Baghayipour, **A Akbari Foroud**<br>Iranian Journal of Electrical & Electronic Engineering 8 (1) | 2012 |
| 18-A Novel Scheme for Dynamic Network Expansion Planning in Deregulated Power System.<br>M AmirAhmadi, **A Akbari Foroud**, AA Abdoos<br>International Review of Electrical Engineering 7 (2) | 2012 |
| 19-Improvement of DC Optimal Power Flow Problem Based on Nodal Approximation of Transmission Losses<br>M Baghayipour, **A Akbari Foroud**<br>Iranian Journal of Electrical and Electronic Engineering 8 (1), 76-90 | 2012 |
| 20-Stochastic multi-objective programming for simultaneous clearing of energy and spinning reserve markets considering reliability preferences of customers<br>M Amirahmadi**, A Akbari Foroud**<br>International Journal of Electrical Power & Energy Systems 53, 691-703 | 2013 |

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| 21-Optimal strategy planning for a retailer considering medium and short-term decisions<br>M Nazari, A **Akbari** Foroud<br>International journal of Electrical power & Energy systems 45 (1), 107-116 | 2013 |
| 22-A stochastic framework for reactive power procurement market, based on nodal price model<br>H Ahmadi, **A Akbari Foroud**<br>International Journal of Electrical Power & Energy Systems 49, 104-113 | 2013 |
| 23-A novel method for maintenance scheduling of generating units considering the demand side<br>SH Elyas, **A Akbari Foroud**, H Chitsaz<br>International Journal of Electrical Power & Energy Systems 51, 201-212 | 2013 |
| 24-A new market clearing mechanism, based on comprehensive welfare allocation, considering participants' optimality, efficiency, and extent of transmission use<br>M Baghayipour, **A Akbari Foroud**<br>International Transactions on Electrical Energy Systems 23 (8), 1335-1364 | 2013 |
| 25-Market power assessment in electricity markets: supply function equilibrium-based model<br>S Salarkheili, **A Akbari Foroud**<br>International Transactions on Electrical Energy Systems 23 (4), 553-569 | 2013 |
| 26-Locational Prices in Capacity Subscription Market Considering Transmission Limitations<br>SB Sarookolaee, **A Akbari Foroud**<br>Iranian Journal of Electrical & Electronic Engineering 9 (2) | 2013 |
| 27-Accurate Fault Classification of Transmission Line Using Wavelet Transform and Probabilistic Neural Network<br>M Mollanezhad Heydar-Abadi, **A Akbari Foroud**<br>Iranian Journal of Electrical and Electronic Engineering 9 (3), 177-188 | 2013 |
| 28-Discrimination of Power Quality Distorted Signals Based on Time-frequency Analysis and Probabilistic Neural Network<br>M Hajian, **A Akbari Foroud**, AA Abdoos<br>International Journal of Engineering-Transactions C: Aspects 27 (6), 881 | 2013 |
| 29-New automated power quality recognition system for online/offline monitoring<br>M Hajian**, A Akbari Foroud**, AA Abdoos<br>Neurocomputing 128, 389-406 | 2014 |
| 30-A new hybrid pattern recognition scheme for automatic discrimination of power quality disturbances | 2014 |

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| M Hajian, **A Akbari Foroud**<br>Measurement 51, 265-280 | |
| 31-A comprehensive fair nodal pricing scheme, considering participants' efficiencies and their rational shares of total cost of transmission losses<br>M Baghayipour, **A Akbari Foroud**, A Soofiabadi<br>International Journal of Electrical Power & Energy Systems 63, 30-43 | 2014 |
| 32-Optimal Spinning Reserve Requirement Determination Considering Reliability Preferences of Customers<br>M Amirahmadi, **A Akbari Foroud**<br>Arabian Journal for Science and Engineering 39 (6), 4945-4962 | 2014 |
| 33-Joint Energy and Reactive Power Market Considering Coupled Active and Reactive Reserve Market Ensuring System Security<br>H Ahmadi, **A Akbari Foroud**<br>Arabian Journal for Science and Engineering 39 (6), 4789-4804 | 2014 |
| 34-Nodal Market Power Detection under Locational Marginal Pricing<br>A Soofiabadi, **A Akbari Foroud**<br>Iranian Journal of Electrical & Electronic Engineering 10 (1), 45 | 2014 |
| 35-Power transformer protection scheme based on MRA-SSVM<br>M Hajian, **A Akbari Foroud**, AA Abdoos<br>Journal of Intelligent and Fuzzy Systems 27 (4), 1659-1669 | 2014 |
| 36- A New Approach to Locational Pricing and Settlement of Day-Ahead Spinning Reserve Market<br>M Amirahmadi, **A Akbari Foroud**<br>European Transactions on Electrical Power, (DOI: 10.1002/etep.2078) | 2015 |
| 37- Recognition and Assessment of Different Factors which Affect Ficker in Wind Turbines<br>Milad fooladi, **A Akbari Foroud**<br>IET, Renewable Power Generation, doi: 10.1049/iet-rpg.2014.0419 | 2015 |
| 38- Improvement of the simultaneous active and reactive power markets pricing and structure<br>Hamed Ahmadi, **A Akbari Foroud**<br>IET, Generation, Transmission & Distribution, doi: 10.1049/iet-gtd.2015.0261 | 2015 |
| 39- Design of Joint Active and Reactive Power Reserve Market: A Multi-objective Approach Using NSGA II<br>Hamed Ahmadi, **A Akbari Foroud**<br>Accepted for publication in IET, Generation, Transmission & Distribution | 2015 |
| 40- Cost-Effective Optimal Allocation and Sizing of Active Power Filters Using a New Fuzzy-MABICA Method | 2015 |

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| Amir Moradi Far, **A Akbari Foroud**<br>Accepted for publication in Taylor & Francis IETE Journal of Research. | |
| 41- Modifying Nodal Pricing Method Considering Market Participants Optimality and Reliability<br>Alireza Soofiabadi, **A Akbari Foroud**<br>Iranian Journal of Electrical & Electronic Engineering, 11 (2), 165-173 | 2015 |
| 42- A New Method for Merchandizing Surplus Allocation<br>Iman ehsani, **A Akbari Foroud,** Alireza Soofiabadi<br>Accepted for publication in Iranian Journal of Electrical & Electronic Engineering, | 2015 |
| 43- Economic analysis and optimal capacity sizing of turbo-expander-based microgrid<br>R Ghanaee, **AA Foroud**<br>IET Renewable Power Generation 11 (4), 511-520 | 2016 |
| 44-Stochastic-based resource expansion planning for a grid-connected microgrid using interval linear programming<br>MHS Boloukat, **AA Foroud**<br>Energy 113, 776-787 | 2016 |
| 45-Reserve market scheduling considering both capacity and energy bids of reserve<br>M Bahmanzadeh, **AA Foroud**<br>International Journal of Electrical Power & Energy Systems 81, 1-11 | 2016 |
| 46-Cost-effective optimal allocation and sizing of active power filters using a new fuzzy-MABICA method<br>A Moradi Far, **A Akbari Foroud**<br>IETE Journal of Research 62 (3), 307-322 | 2016 |
| 47-Recognition and assessment of different factors which affect flicker in wind turbines<br>M Fooladi, **AA Foroud**<br>IET Renewable Power Generation 10 (2), 250-259 | 2016 |
| 48-Design of joint active and reactive power reserve market: a multi-objective approach using NSGA II<br>H Ahmadi, **AA Foroud**<br>IET Generation, Transmission & Distribution 10 (1), 31-40 | 2016 |
| 49-Improvement of the simultaneous active and reactive power markets pricing and structure<br>H Ahmadi, **AA Foroud**<br>IET Generation, Transmission & Distribution 10 (1), 81-92 | 2016 |
| 50-Development of reinforcement learning algorithm to study the capacity | 2016 |

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| withholding in electricity energy markets<br>H Bakhshandeh, **A Akbari Foroud**<br>Iranian Journal of Electrical and Electronic Engineering 12 (1), 42-51 | |
| 51-A new approach to locational pricing and settlement of day-ahead spinning reserve market<br>M Amirahmadi, **A Akbari Foroud**<br>International Transactions on Electrical Energy Systems 26 (1), 155-174 | 2016 |
| 52- Stochastic-based resource expansion planning for a grid-connected microgrid using interval linear programming<br>MHS Boloukat, **AA Foroud**<br>Energy 113, 776-787 | 2016 |
| 53-Impact of fault resistance and fault distance on fault current reduction ratio of hybrid SFCL<br>MR Barzegar-Bafrooei, **A Akbari Foroud**<br>International Transactions on Electrical Energy Systems 27 (11), e2409 | 2017 |
| 54-Accurate modeling of uncertainties based on their dynamics analysis in microgrid planning<br>MS Borujeni, **AA Foroud**, A Dideban<br>Solar Energy 155, 419-433 | 2017 |
| 55-A Hybrid Fuzzy DIAICA Approach for Cost-Effective Placement and Sizing of APFs<br>A Moradifar, **A Akbari Foroud**<br>IETE Technical Review 34 (5), 579-589 | 2017 |
| 56-Behavioural market power indices in a transmission-constrained electricity market<br>H Khajeh, **AA Foroud**<br>IET Generation, Transmission & Distribution 11 (18), 4608-4616 | 2017 |
| 57- Design of Reactive Power Reserve Market by Incorporating Excitation System Response Improvement Methods<br>A Khandani, **A Akbari Foroud**<br>Electric Power Components and Systems 45 (8), 825-838 | 2017 |
| 58- Intelligent localisation of multiple non-linear loads considering impact of harmonic state estimation accuracy<br>A Moradifar, **AA Foroud,** KG Firouzjah<br>IET Generation, Transmission & Distribution 11 (8), 1943-1953 | 2017 |
| 59- Detection and evaluation of effective factors on flicker phenomenon in diesel-engine driven generators<br>M Fooladi, **AA Foroud**, AA Abdoos<br>Applied Thermal Engineering 113, 1194-1207 | 2017 |

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| 60- Design of reactive power and reactive power reserve market<br>A Khandani, **AA Foroud**<br>IET Generation, Transmission & Distribution 11 (6), 1443-1452 | 2017 |
| 61-Robust Bidding Strategies and Scheduling of a Price-maker Microgrid Aggregator Participating in a Pool-based Electricity Market<br>H Khajeh, **AA Foroud**, H Firoozi<br>IET Generation, Transmission & Distribution, 13 (4), 468-477 | 2018 |
| 62-Optimal sizing methodology for photovoltaic and wind hybrid rooftop generation systems in residential low voltage distribution networks<br>V Behravesh, **AA Foroud**, R Keypour<br>Solar Energy 173, 17-33 | 2018 |
| 63-Stochastic analysis of solar and wind hybrid rooftop generation systems and their impact on voltage behavior in low voltage distribution systems<br>V Behravesh, R Keypour, **AA Foroud**<br>Solar Energy 166, 317-333 | 2018 |
| 64-Performance evaluation of distance relay in the presence of hybrid SFCL<br>MR Barzegar-Bafrooei, **AA Foroud**<br>IET Science, Measurement & Technology, 12 (5), 581-593 | 2018 |
| 65-Wind speed scenario generation based on dependency structure analysis<br>MS Borujeni, **AA Foroud**, A Dideban<br>Journal of Wind Engineering and Industrial Aerodynamics 172, 453-465 | 2018 |
| 66-Multiperiod Planning of Distribution Networks under Competitive Electricity Market with Penetration of several Microgrids Part I: Modeling and Solution Methodology<br>MH Shaban Boloukat, **A Akbari Foroud**<br>IEEE Transactions on Industrial Informatics, Volume: 14 , Issue: 11 , Nov. 2018, pp. 4884 - 4894 | 2018 |
| 67-Optimizing the multi-objective bidding strategy using min–max technique and modified water wave optimization method<br>A Azadi Hematabadi, **A Akbari Foroud**<br>Neural Computing and Applications - Springer | 2018 |
| 68-Investigation of the performance of distance relay in the presence of saturated iron core SFCL and diode bridge type SFCL<br>MR Barzegar-Bafrooei, **AA Foroud**<br>International Transactions on Electrical Energy Systems, 29 (2), e2736 | 2019 |
| 69-Identification of multiple harmonic sources in power system containing inverter-based distribution generations using empirical mode | 2019 |

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| decomposition<br>A Moradifar, **AA Foroud**, M Fouladi<br>IET Generation, Transmission & Distribution 13 (8), 1401-1413 | |
| 70- Comprehensive identification of multiple harmonic sources using fuzzy logic and adjusted probabilistic neural network<br>A Moradifar, **AA Foroud**, KG Firouzjah<br>Neural Computing and Applications 31 (1), 543-556 | 2019 |
| 71-Enhanced structure and optimal capacity sizing method for turbo-expander based microgrid with simultaneous recovery of cooling and electrical energy<br>R Ghanaee, **AA Foroud**<br>Energy 170, 284-304 | 2019 |
| 72-Control strategy for improving voltage quality in residential power distribution network consisting of roof-top photovoltaic-wind hybrid systems, battery storage and electric …<br>V Behravesh, R Keypour, **AA Foroud**<br>Solar Energy 182, 80-95 | 2019 |
| 73-Multiperiod Planning of Distribution Networks Under Competitive Electricity Market With Penetration of Several Microgrids Part II: Case Study and Numerical Analysis<br>MHS Boloukat, **AA Foroud**<br>IEEE transactions on industrial informatics 15 (4), 2023-2031 | 2019 |
| 74-Studying a Novel Method for Mitigation of the Adverse Impacts of SFCL on Transmission Line Distance Protection<br>**AA Foroud**, MR Barzegar-Bafrooei<br>IET Generation, Transmission & Distribution | 2019 |
| 75-On the Advance of SFCL: A Comprehensive Review<br>**AA Foroud**, MR Barzegar-Bafrooei, M Niasati, JD Ashkezari<br>IET Generation, Transmission & Distribution | 2019 |
| 76-Providing transient stability by excitation system response improvement methods through long-term contracts<br>A Khandani, **A.A Foroud**<br>Scientia Iranica. Transaction D, Computer Science & Engineering, Electrical | 2019 |
| 77-Resource Adequacy in Interdependent Electricity Markets Undergoing Heterogeneous Expansion in Renewable Energy<br>SA Mozdawar, **A.A Foroud**,<br>IET Generation, Transmission & Distribution | 2019 |
| 78- Pumped-storage units to address spinning reserve concerns in the grids with high wind penetration | 2020 |

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| I Rahmati, **A.A Foroud**<br>Journal of Energy Storage 31, 101612 | |
| 79- A medium/long-term auction-based coalition-forming model for a virtual power plant based on stochastic programming<br>M Jafari, **A.A Foroud**<br>International Journal of Electrical Power & Energy Systems 118, 105784 | 2020 |
| 80- A new approach for static voltage stability assessment in distribution networks<br>SE Sadeghi, **A Akbari Foroud**<br>International Transactions on Electrical Energy Systems 30 (3), e12203 | 2020 |
| 81- <u>A novel flicker detection method for vertical axis wind turbine using two-dimensional discrete wavelet transform</u><br>H Doustmohammadi, **AA Foroud**<br>international transactions on electrical energy systems | 2020 |
| 82-<u>Market power assessment through modelling of effective anti-competitive behaviour of participants</u><br>E Halakou, **AA Foroud**<br>IET Generation, Transmission & Distribution 14 (23), 5381-5391 | 2020 |
| 83-<u>Harmonic reduction of three-phase power inverter injection current using virtual admittance</u><br>M Izadi, **A Akbari Foroud**<br>international transactions on electrical energy systems | 2020 |
| 84-Power quality disturbances recognition using adaptive chirp mode pursuit and grasshopper optimized support vector machines<br>SZT Motlagh, **AA Foroud**<br>Measurement 168, 108461 | 2021 |
| 85-Reconstructing long-term wind speed data based on measure correlate predict method for micro-grid planning<br>M Salehi Borujeni, A Dideban, **A Akbari Foroud**<br>Journal of Ambient Intelligence and Humanized Computing | 2021 |
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**Conference papers**

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|---|---|
| 1- S. H. Hosseini, H. Seifi, H. Haghighat, M. S. Sepasian, **A. Akbari Foroud**, S. Raei, 'UHV for Iranian Power Grid, Will It Be a Reality?', Canadian Conference on Electrical and Computer Engineering, 2005. | 2005 |
| 2-An Algorithm for Voltage Uprating in a Subtransmission Network<br>**A Akbari Foroud**, H Seifi, K Asiaei<br>31st IAEE Conference Istanbul (Bridging Energy Supply and Demand) | 2008 |
| 3-Solution of Short-term Economic-Emission Hydrothermal Generation | 2010 |

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| Scheduling by an Efficient Particle Swarm Optimization technique<br>**A Akbari Foroud**, HR Soleymanpour<br>Electrical Engineering (ICEE), 2010 18th Iranian Conference on, 812-818 | |
| 4-A reformed capacity subscription market in restructured power systems<br>SB Sarookolaee, SH Elyas, **A Akbari Foroud**<br>Innovative Smart Grid Technologies-India (ISGT India), 2011 IEEE PES, 368-373 | 2011 |
| 5-A novel approach for maintenance scheduling of generation units in restructured power system<br>SH Elyas, SB Sarookolaee, **AA Foroud**<br>Innovative Smart Grid Technologies-India (ISGT India), 2011 IEEE PES, 374-379 | 2011 |
| 6-Stochastic-based risk-constrained optimal self-scheduling for a generation company in electricity market<br>S Bazmohammadi, **A Akbari Foroud**, N Bazmohammadi<br>Electrical Engineering (ICEE), 2012 20th Iranian Conference on, 467-472 | 2012 |
| 7-Modified Invasive Weed Optimization based on Fuzzy PSS in Multi-machine Power System<br>O Abedinia, N Amjady, **A Akbari Foroud**, HA Shayanfar<br>International Conference on Artificial Intelligence, Las Vegas, Nevada, USA ... | 2012 |
| 8- <u>A New Bidding Strategy for Generating Companies in a Pool-Based Transmission-Constrained Electricity Market</u><br>H Khajeh, **A.A Foroud**<br>PSC 2015 | 2015 |
| 9-Effect of Wind Power on Incentive of Other Generators to Exercise Market Power<br>H Khajeh, **AA Foroud**<br>3rd National and First International Conference in applied research on … | 2016 |
| 10-New Ex-ante Indices of Market Power<br>H Khajeh, **AA Foroud**, H Firoozi<br>2016 24th Iranian Conference on Electrical Engineering (ICEE) | 2016 |
| 11-Optimal participation of a wind power producer in a transmission-constrained electricity market<br>H Khajeh, **AA Foroud**, H Firoozi<br>Electrical Engineering (ICEE), 2017 Iranian Conference on, 1230-1235 | 2017 |
| 12-Comprehensive evaluation of Transmission Company considering both value based and market based objectives<br>A Soofiabadi, **AA Foroud**, M Baghayipour<br>Electrical Engineering (ICEE), 2017 Iranian Conference on, 1204-1209 | 2017 |

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| 13- <u>The investigation of the current limitation behavior of saturated iron-core SFCL under different fault resistance and fault distance</u><br>MR Barzegar-Bafrooei, **A.A Foroud**<br>2019 27th Iranian Conference on Electrical Engineering (ICEE), 527-531 | 2019 |
| ۱۴- مقایسه و تحلیل فلیکر  ناشی از توربین‌های بادی محور افقی و محور عمودی، حسین دوست محمدی، اصغر اکبری فرود.<br>۲۸ مین کنفرانس مهندسی برق ایران، دانشگاه تبریز، مرداد ۹۹. | |