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Education			
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BSc	2008	Electrical Engineering	Tehran Polytechnic
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Employment Information				
Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Department of Electrical and Computer Engineering	Assistant Professor	Tenure Track	Full Time	10

Journal Membership

Member of Editorial Board of Journal of IASC-Intelligent Automation & Soft Computing: (ISSN: 1079-8587)

<https://www.techscience.com/journal/iasc>

[Appointment Letter](#)

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Member of Editorial Board of Journal of Energy Engineering (ISSN: 0199-8595)

https://www.techscience.com/energy/info/editor_board

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Research Topic Editor- Special Issue: Frontiers In Energy Research (ISSN: 2296-598X)

<https://www.frontiersin.org/research-topics/31711/reliability-and-resiliency-of-smart-grids-as-cyber-phy>

About this Research Topic

The reliability and resiliency of smart grids are essential concerns. Integrating the cyber systems (communication, control, monitoring, and protection networks) is a new challenge that might affect the smart grids' reliability. Hence, developing the research works in the areas of reliability evaluation of smart grids, considering the cyber-physical interdependencies, cyber-attacks, security constraints, is crucial and has received much attention. The resiliency of smart grids and critical infrastructure systems (CIPs) is another essential issue, which has been highlighted recently. More resiliency is achievable by using the smartness of the communication-aided systems in smart grids. However, some negative impacts like cyber-attacks and cyber-physical interdependencies might affect the resiliency of the smart grids.

This Research Topic encourages researchers to present the recent outputs and achievements in reliability and resiliency of smart grids, focusing on cyber-physical features. The concentrated research topic helps researchers source recent studies about energy hubs and smart grids. The coverage embraces but is not limited to:

- Reliability evaluation methods for smart grids, considering cyber-physical interdependencies,
- Resiliency metrics based on cyber impacts,
- Studying the negative/positive impacts of cyber systems to intensify/mitigate uncertainties,
- Reliability, security, and resiliency metrics for cyber-physical systems,
- Cyber-attacks threats for smart grid's reliability,
- Information transmission errors analyses,
- Cyber security of smart grids,
- Cyber and physical/power failures analyses,
- Critical infrastructure systems' resiliency,
- Smart grids' sensor structures,
- Reliability of different communication protocols,
- Root causes for failures in smart grids, as cyber-physical systems,
- Risk-based maintenance of smart grids, focusing on cyber systems,
- RTU and PMU-based control and monitoring systems incorporating reliability concerns.

Keywords: Reliability, Resiliency, Smart Grids, Cyber-physical systems

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Guest Editor-Special Issue: Smart Grids and Power System Protection, Sustainability, MDPI

https://www.mdpi.com/journal/sustainability/special_issues/Power_System_Protection

Special Issue Information

Dear Colleagues,

Designing an appropriate protection system is one of the essential challenges in conventional power systems and smart grids. The reliable and secure protection of conventional generation, transmission, and distribution systems is crucial. However, the protection of modernized future grids toward smart grids encounters new challenges and opportunities. New challenges in energy system protection appear due to the increase in the penetration of renewable and non-renewable distributed generations. The changes in network topology and operation modes (islanded and grid-connected modes) intensify

the new communicated adaptive protection schemes and novel communication-free ones. Smart communication-aided protection systems should be adopted for communication protocols, IEC 61850 requirements, and cyber–physical features. Although much attention has been paid to the protection of power systems and smart grids, there are still many challenges and research gaps that should be responded to by new research works and ideas. Developing protection schemes for electrical energy systems should consider selectivity, speed, reliability, resiliency, stability, and economic constraints. Investigating the comprehensive aspects of the protection system, particularly in smart grids, might be challenging.

This Special Issue encourages researchers to present the recent outputs and achievements in power system protection and smart grids. The concentrated research topic helps researchers source recent studies dealing with power systems and smart grid protection.

Topics on interest include, but are not limited to, the following:

- Power system protection;
- Protection of microgrids and smart grids;
- Protection system optimization;
- Protective relays (overcurrent, distance, and differential);
- Distribution and transmission system protection;
- Relay testing technologies;
- Determining the settings for protection relays;
- Fault locating methods;
- Wide area measurement, protection, and control (WAMPAC);
- Adaptive protection;
- Cyber–physical features of protection systems;
- Protection of DC microgrids and inverter-based microgrids;
- Special protection;
- IEC 61850 & communication-aided protection systems;
- Power system protection considering power quality challenges;
- Hardware in the loop & real-time simulations in power system protection;
- Instrument transformers, including current transformers and voltage transformers, based on IEC 61889 standards;
- Automation and digitalized protection systems.

Dr. Hamed Hashemi-Dezaki

Dr. Ali Karimi

Dr. Hamed Nafisi

Dr. Seyed Amir Hosseini

Guest Editors

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by [registering](#) and [logging in to this website](#). Once you are registered, [click here to go to the submission form](#). Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the [Instructions for Authors](#) page. *Sustainability* is an international peer-reviewed open access semimonthly journal published by MDPI.

Please visit the [Instructions for Authors](#) page before submitting a manuscript. The [Article Processing Charge \(APC\)](#) for publication in this [open access](#) journal is 1900 CHF (Swiss Francs). Submitted papers should be well formatted and use good English. Authors may use MDPI's [English editing service](#) prior to publication or during author revisions.

Keywords

- smart grid
- microgrid
- power system
- relay
- protection
- IEC 61850
- WAMPAC
- protection coordination
- digital relay
- relay testing

</file/download/teachersInfo/1639728268-power-system-protection.pdf>

Papers in Conferences

1. سیدعلیرضا سیدحسینی، حامد هاشمی دزکی، هماهنگی حفاظتی بهینه شبکه‌های توزیع فعال با منحنی مشخصه‌های غیراستاندارد مبتنی بر بهینه‌سازی بهبودیافته با شرایط اولیه حاصل از منحنی مشخصه‌های استاندارد، بیست و هشتمین کنفرانس بین‌المللی شبکه‌های توزیع نیروی برق، ۱ - زنجان، ۲۰۲۴، ۳۰-۴۰.
2. احمدرضا جمالی ابنوی، حامد هاشمی دزکی، بهبود بهره‌وری سیستم‌های کابلی مبتنی بر تحلیل حرارتی با در نظر گرفتن آرایش‌های مختلف و انواع روش‌های اتصال پوشش محافظ کابل به زمین در محیط‌های گوناگون- مطالعه موردی: مجتمع فولاد مبارکه اصفهان، شانزدهمین کنفرانس کیفیت و بهره‌وری، ۱ - تهران، ۲۰۲۲، ۲۰-۲۰.
3. امیرحسین عطایی کچویی، حامد هاشمی دزکی، عباس کتابی، حفاظت تطبیقی بهینه ریزشبکه‌های هوشمند در حالت - ۱، (SGC۲۰۲۰) جزیره‌ای و متصل به شبکه با کاهش قیود مسئله، دهمین کنفرانس شبکه‌های هوشمند انرژی ۹۹ - کاشان، ۲۰۲۰، ۱۲-۱۶.
4. پوریا عمرانی رهنی، حامد هاشمی دزکی، مدیریت انرژی و افزایش بهره‌وری هاب انرژی خانگی بر اساس اطلاعات فصلی تقاضای توان الکتریکی و گرمایش با کمک روش تخمین دونقطه‌ای، چهاردهمین کنفرانس ملی کیفیت و بهره‌وری، ۱ - تهران، ۲۰۱۹، ۱۲-۱۸.
5. علی نریمانی، امیرمسعود کوچک زاده خیابانی، حامد هاشمی دزکی، علی کریمی، هماهنگی بهینه رله‌های اضافه‌جریان با مشخصه زمانی معکوس دوگانه با عنصر سریع بر اساس شرایط پایداری منابع تولید پراکنده، سی و چهارمین کنفرانس بین‌المللی برق، ۱ - تهران، ۲۰۱۹، ۱۲-۰۹.
6. حامد هاشمی دزکی، میثم هرسینی، ارزیابی فنی و اقتصادی نیروگاه بادی-حرارتی با سیستم هیبرید تامین انرژی ورودی . با نگرش ارتقای بهره‌وری انرژی، سیزدهمین کنفرانس ملی کیفیت و بهره‌وری، ۱ - تهران، ۲۰۱۹، ۱۶-۰۲.
7. حامد هاشمی دزکی، میثم هرسینی، ارزیابی فنی و اقتصادی نیروگاه بادی-حرارتی با سیستم هیبرید تامین انرژی ورودی . با نگرش ارتقای بهره‌وری انرژی، سیزدهمین کنفرانس ملی کیفیت و بهره‌وری، ۱ - تهران، ۲۰۱۹، ۱۶-۰۲.
8. با تاکید بر DC ایمان طالب نیا، حامد هاشمی دزکی، مریم السادات اخوان حجازی، مدیریت انرژی چندسطحی ریزشبکه

تهران، ۲۰۱۸، ۱۰ ۲۲ - ۲۰۱۸، ۱ - PSC توزیع توان بهینه بین منابع تولید و ذخیره سازها، سی و سومین کنفرانس بین‌المللی برق

9. Amir mohammad Entekhabi ,Optimal Protection Scheme Of Micro-Grids Considering N-1 Contingency By A New Hybrid GA-PSO-LP Optimization Algorithm ,11th Smart Grid Conference (SGC 2021) ,1 - 07 12 2021, تبریز .
10. Amirhossein Eshaghi Kuchuyi, Hamid Hashemi Dazki, Abbas Katabi ,Optimal Protection Coordination of Dual-Setting Directional Overcurrent Relays Based on Three-point Coordination Strategy ,11th Smart Grid Conference (SGC 2021) ,1 - 07 12 2021, تبریز .
11. Jamal Faraji ,Developing an Energy Management System for Optimal Operation of Prosumers Based on a Modified Data-Driven Weather Forecasting Method ,99 دهمین کنفرانس شبکه ای هوشمند انرژی (SGC2020) ,1 - 16 12 2020, کاشان .
12. Sensitivity analysis of distribution system reliability for identifying the critical elements ,30 04 2019, بیست و هفتمین کنفرانس مهندسی برق ایران ,1 - یزد .
13. Voltage Regulation in Transmission Line by Shunt Flexible AC Transmission System Devices ,ECTI-CON 2017 : IEEE and ECTI 14th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology ,47 - 27 06 2017, پوکت .

Papers in Journals

1. Amirhossein Eshaghi Kuchuyi, Hamid Hashemi Dazki, Abbas Katabi, Hama Hengki Conservation of Riesz network with use of individual elements of the two-way network, IEEE Transactions on Smart Grid, Vol. 11, No. 4, pp. 3040-3047, 2020.
2. Ali Baqeri, Hamid Reza Aghaie, Mohammad Shamsi, Mohammad Mehdi Ebadati, Hamid Hashemi Dazki, Conservation of Riesz network with use of individual elements of the two-way network, IEEE Transactions on Smart Grid, Vol. 11, No. 4, pp. 3040-3047, 2020.
3. Mohammad Shamsi, Hamid Hashemi Dazki, Conservation of Riesz network with use of individual elements of the two-way network, IEEE Transactions on Smart Grid, Vol. 11, No. 4, pp. 3040-3047, 2020.
4. Poria Emrani Rheyi, Hamid Hashemi Dazki, Behrooz Bardiary, Hama Hengki Conservation of Riesz network with use of individual elements of the two-way network, IEEE Transactions on Smart Grid, Vol. 11, No. 4, pp. 3040-3047, 2020.
5. Ali Mohammad Heriri, Maryam Alsadat Akhavan Hajarzi, Hamid Hashemi Dazki, Model of Riesz network with use of individual elements of the two-way network, IEEE Transactions on Smart Grid, Vol. 11, No. 4, pp. 3040-3047, 2020.
6. Optimal communication-free protection of meshed microgrids using non-standard overcurrent relay characteristics considering different operation modes and configurations based on N-1 contingency, Sustainable Cities and Society, Vol. 106, pp. 1, 2024 03 24, SCOPUS, JCR.
7. Jamal Faraji, Zacharie De Grève, François Vallée, Reliability Analysis of Cyber-Physical Energy Hubs: A Monte Carlo Approach, IEEE Transactions on Smart Grid, Vol. 15, pp. 848, 2023 12 26, SCOPUS, JCR.
8. Hossein Karimkhan Zand, Kazem Mazlumi, Amir Bagheri, Hamid Hashemi Dazki, Optimal Protection Scheme for Enhancing AC Microgrids Stability against Cascading Outages by Utilizing Events Scale Reduction Technique and Fuzzy Zero-Violation Clustering Algorithm, Sustainability (basel), Vol. 15, pp. 1, 2023 11 02, SCOPUS, JCR.
9. Poria Emrani Rheyi, Hamid Hashemi Dazki, Abbas Katabi, Efficient voltage control of low voltage distribution networks using integrated optimized energy management of networked residential multi-energy microgrids, Applied Energy, Vol. 349, pp. 1, 2023 11 01, SCOPUS, JCR.
10. Amirreza Mehri, Kazem Mazlumi, Hamid Hashemi Dazki, Mohammad Hasan Mansouri, Ramin Mahyaei, A

Novel Approach for Elimination of Defects of Blocking and Unblocking in Distance Relays during Power Swing,Sustainability (basel),Vol. 15,pp. 1,2023 09 07,SCOPUS ,JCR.

11. دزکی,حامد هاشمی عظیمی,ابوالفضل,Optimized protection coordination of microgrids considering power quality-based voltage indices incorporating optimal sizing and placement of fault current limiters,Sustainable Cities and Society,Vol. 96,pp. 1,2023 09 01,SCOPUS ,JCR.

12. دزکی,عباس کتابی,امیرحسین عطایی کچویی,حامد هاشمی,Optimized adaptive protection coordination of microgrids by dual-setting directional overcurrent relays considering different topologies based on limited independent relays' setting groups,ELECTRIC POWER SYSTEMS RESEARCH,Vol. 214,pp. 1,2023 01 01,SCOPUS ,JCR.

13. Saeed Akbari,Seyed Saeed Fazel,دزکی,حامد هاشمی,Energy Management of Networked Smart Railway Stations Considering Regenerative Braking, Energy Storage System, and Photovoltaic Units,Energy Engineering: Journal of The Association of Energy Engineers,Vol. 120,pp. 69,2023 01 01,SCOPUS.

14. دزکی,عباس کتابی,امیرحسین عطایی کچویی,حامد هاشمی,Optimal adaptive protection of smart grids using high-set relays and smart selection of relay tripping characteristics considering different network configurations and operation modes,IET Generation Transmission & Distribution,Vol. 16,pp. 5084,2022 12 31,SCOPUS ,JCR.

15. دزکی,سید سعید فاضل,حامد هاشمی اکبری,سعید اکبری,Optimal clustering-based operation of smart railway stations considering uncertainties of renewable energy sources and regenerative braking energies,ELECTR POW SYST RES,Vol. 213,pp. 1,2022 12 31,SCOPUS ,JCR.

16. دزکی,امیرمحمد انتخابی نوش ابادی,شکیبا صادقی میرلطف اله,حامد هاشمی دزکی,امیرمحمد انتخابی نوش ابادی,Optimized protection coordination of smart grids considering N-1 contingency based on reliability-oriented probability of various topologies,ELECTR POW SYST RES,Vol. 213,pp. 1,2022 12 31,SCOPUS ,JCR.

17. دزکی,عباس کتابی,امیرحسین عطایی کچویی,حامد هاشمی دزکی,عباس کتابی,Optimized Microgrid Protection Considering Different Topologies Based on N-1 Contingency by Dual Setting Directional Overcurrent Relays,International Journal of Industrial Electronics, Control and Optimization (IECO),Vol. 5,pp. 205,2022 10 31,ISC.

18. Seyed Amir Hosseini,Ali Akbar Nazari,Behrooz Taheri,Farzad Razavi,دزکی,حامد هاشمی,Proposing a New Approach to Generate the Differential Trajectory of the Differential Relays Using COMTRADE Files,Sustainability (basel),Vol. 14,pp. 1,2022 10 27,SCOPUS ,JCR.

19. دزکی,عباس کتابی,مهرداد اصلانی,حامد هاشمی دزکی,عباس کتابی,Analytical reliability evaluation method of smart microgrids considering the cyber failures and information transmission system faults,IET Renewable Power Generation,Vol. 16,pp. 2816,2022 10 05,SCOPUS ,JCR.

20. دزکی,عباس کتابی,مهرداد اصلانی,مهدی مشایخی,حامد هاشمی دزکی,عباس کتابی,Robust optimal operation of energy hub incorporating integrated thermal and electrical demand response programs under various electric vehicle charging modes,APPL ENERG,Vol. 321,pp. 1,2022 09 01,SCOPUS ,JCR.

21. دزکی,محمد قاسم,مریم السادات اخوان حجازی,حامد هاشمی دزکی,محمد قاسم,مریم السادات اخوان حجازی,Flexibility Optimization in Robust Co-Optimization of Combined Power System and Gas Networks Using Transmission Lines' Switching,Electronics,Vol. 11,pp. 1,2022 08 24,SCOPUS ,JCR.

22. دزکی,حامد هاشمی دزکی,حمیدرضا اقائی,حامد هاشمی دزکی,Optimal communication-aided protection of meshed smart grids considering stability constraints of distributed generations incorporating optimal selection of relay characteristics,IET Renewable Power Generation,Vol. 16,pp. 2313,2022 08 17,SCOPUS ,JCR.

23. دزکی,حامد هاشمی دزکی,یونس نورالهی,امین عباس گلشن فرد,حامد هاشمی دزکی,A scenario-based approach for optimal operation of energy hub under different schemes and structures,ENERGY,Vol. 251,pp. 1,2022 07 15.

24. دزکی,امیرمحمد انتخابی نوش ابادی,شکیبا صادقی میرلطف اله,حامد هاشمی دزکی,امیرمحمد انتخابی نوش ابادی,Optimal Electric Arc Furnace Model's Characteristics Using Genetic Algorithm and Particle Swarm Optimization and Comparison of Various Optimal Characteristics in DlgSILENT and EMTP-RV,International Transactions on Electrical Energy Systems,Vol. 2022,pp. 1,2022 06 20,SCOPUS ,JCR.

25. دزکی,امیرمحمد انتخابی نوش ابادی,شکیبا صادقی میرلطف اله,حامد هاشمی دزکی,امیرمحمد انتخابی نوش ابادی,Optimal Electric Arc Furnace Model's Characteristics Using Genetic Algorithm and Particle Swarm Optimization and Comparison of Various Optimal Characteristics in DlgSILENT and EMTP-RV,International Transactions on Electrical

Energy Systems, Vol. 2022, pp. 1, 2022 06 20, SCOPUS, JCR.

26. مهرباد اصلانی, جمال فرجی, حامد هاشمی دزکی, عباس کتابی, A novel clustering-based method for reliability assessment of cyber-physical microgrids considering cyber interdependencies and information transmission errors, APPL ENERG, Vol. 315, pp. 1, 2022 06 01, SCOPUS, JCR.
27. مهدیه عادل, مجید حاجتی پور, محمد جواد یزدان پناه, حامد هاشمی دزکی, محسن شفیعی راد, Optimized cyber-attack detection method of power systems using sliding mode observer, ELECTR POW SYST RES, Vol. 205, pp. 1, 2022 04 30, SCOPUS, JCR.
28. مهرباد اصلانی, امیر ایمانلو زاده, حامد هاشمی دزکی, مریم السادات اخوان حجازی, محمد نظیفی فرد, عباس کتابی, Optimal probabilistic reliability-oriented planning of islanded microgrids considering hydrogen-based storage systems, hydrogen vehicles, and electric vehicles under various climatic conditions, J POWER SOURCES, Vol. 525, pp. 1, 2022 03 30, SCOPUS, JCR.
29. احمد رضا جمالی ابنوی, حامد هاشمی دزکی, عبدالرسول احمدی, احسان مهدوی منش, محمد جعفر توکلی, Harmonic-based thermal analysis of electric arc furnace's power cables considering even current harmonics, forced convection, operational scheduling, and environmental conditions, INT J THERM SCI, Vol. 170, pp. 1, 2021 12 31, SCOPUS, JCR.
30. علی نریمانی, حامد هاشمی دزکی, Optimal stability-oriented protection coordination of smart grid's directional overcurrent relays based on optimized tripping characteristics in double-inverse model using high-set relay, INT J ELEC POWER, Vol. 133, pp. 1, 2021 12 31, SCOPUS, JCR.
31. احمد رضا جمالی ابنوی, حامد هاشمی دزکی, Evaluating the electromagnetic forces on the electric arc furnaces' power cables under various operation conditions, ELECTR POW SYST RES, Vol. 201, pp. 1, 2021 12 31, SCOPUS, JCR.
32. پوریا عمرانی رهقی, حامد هاشمی دزکی, سید امیر حسینی, Optimal operation and scheduling of residential energy hubs simultaneously considering optimal sizing of heat storage and battery storage systems, Journal of Energy Storage, Vol. 44, pp. 1, 2021 12 15, SCOPUS, JCR.
33. پوریا عمرانی رهقی, حامد هاشمی دزکی, Arezoo Hasankhani, Optimal stochastic operation of residential energy hubs based on plug-in hybrid electric vehicle uncertainties using two-point estimation method, Sustainable Cities and Society, Vol. 72, pp. 1, 2021 09 01, SCOPUS, JCR.
34. سید علی سادات, محمد رضا وکیل الرعایا فینی, حامد هاشمی دزکی, محمد نظیفی فرد, Barrier analysis of solar PV energy development in the context of Iran using fuzzy AHP-TOPSIS method, Sustainable Energy Technologies and Assessments, Vol. 47, pp. 1, 2021 08 21.
35. احمد رضا جمالی ابنوی, حامد هاشمی دزکی, Harmonic-based 3D thermal analysis of thyristor-controlled reactor's power cable joints considering external electromagnetic fields, ELECTR POW SYST RES, Vol. 205, pp. 1, 2021 04 30, SCOPUS, JCR.
36. مهران معماری, علی کریمی, حامد هاشمی دزکی, Reliability evaluation of smart grid using various classic and metaheuristic clustering algorithms considering system uncertainties, International Transactions on Electrical Energy Systems, Vol. 31, pp. 1, 2021 04 14, SCOPUS, JCR.
37. جمال فرجی, حامد هاشمی دزکی, عباس کتابی, Stochastic operation and scheduling of energy hub considering renewable energy sources' uncertainty and N-1 contingency, Sustainable Cities and Society, Vol. 65, pp. 1, 2021 02 28, SCOPUS, JCR.
38. محمد رضا یعقوبی نیا, حامد هاشمی دزکی, ابو الفضل حلوائی نیاسر, Optimal stochastic scenario-based allocation of smart grids' renewable and non-renewable distributed generation units and protective devices, Sustainable Energy Technologies and Assessments, Vol. 44, pp. 1, 2021 02 05, SCOPUS, JCR.
39. پوریا عمرانی رهقی, حامد هاشمی دزکی, Optimal Scenario-based Operation and Scheduling of Residential Energy Hubs Including Plug-in Hybrid Electric Vehicle and Heat Storage System Considering the Uncertainties of Electricity Price and Renewable Distributed Generations, Journal of Energy Storage, Vol. 33, pp. 1, 2021 01 01, SCOPUS, JCR.
40. امیر محمد انتخابی نوش آبادی, حامد هاشمی دزکی, عباس طاهر, Optimal microgrid's protection coordination considering N-1 contingency and optimum relay characteristics, APPL SOFT COMPUT, Vol. 98, pp. 1, 2021 01 01, SCOPUS, JCR.
41. جمال فرجی, حامد هاشمی دزکی, عباس کتابی, Multi-year load growth-based optimal planning of grid-

- connected microgrid considering long-term load demand forecasting: A case study of Tehran, Iran, *Sustainable Energy Technologies and Assessments*, Vol. 42, pp. 1, 2020 12 15, SCOPUS ,JCR.
42. علی محمد حریری, مریم السادات اخوان حجازی, حامد هاشمی دزکی, Investigation of impacts of plug-in hybrid electric vehicles' stochastic characteristics modeling on smart grid reliability under different charging scenarios, *J CLEAN PROD*, Vol. 287, pp. 1, 2020 12 10, SCOPUS ,JCR.
43. جمال فرجی, حامد هاشمی دزکی, عباس کتابی, Optimal probabilistic scenario-based operation and scheduling of prosumer microgrids considering uncertainties of renewable energy sources, *Energy Science and Engineering*, Vol. 8, pp. 3942, 2020 12 01, SCOPUS ,JCR.
44. جمال فرجی, عباس کتابی, حامد هاشمی دزکی, MIADREZA SHAFIE, & KHAH, JOÃO P. S. CATALÃO, Optimal Day-Ahead Self-Scheduling and Operation of Prosumer Microgrids Using Hybrid Machine Learning-Based Weather and Load Forecasting, *IEEE Access*, Vol. 8, pp. 157284, 2020 08 26, SCOPUS ,JCR.
45. جمال فرجی, عباس کتابی, حامد هاشمی دزکی, Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting, *Journal of Energy Storage*, Vol. 31, pp. 1, 2020 07 14, SCOPUS ,JCR.
46. جمال فرجی, عباس کتابی, حامد هاشمی دزکی, Miadreza Shafie, & Khah, João P. S. Catalão, Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting, *IEEE Access*, Vol. 8, pp. 83561, 2020 04 30, SCOPUS ,JCR.
47. علی محمد حریری, حامد هاشمی دزکی, مریم السادات اخوان حجازی, A novel generalized analytical reliability assessment method of smart grids including renewable and non-renewable distributed generations and plug-in hybrid electric vehicles, *RELIAB ENG SYST SAFE*, Vol. 196, pp. 1, 2019 11 11, SCOPUS ,JCR.
48. علی محمد حریری, مریم السادات اخوان حجازی, حامد هاشمی دزکی, Reliability optimization of smart grid based on optimal allocation of protective devices, distributed energy resources, and electric vehicle/plug-in hybrid electric vehicle charging stations, *J POWER SOURCES*, Vol. 436, pp. 1, 2019 10 01, SCOPUS ,JCR.
49. حامد هاشمی دزکی, علی محمد حریری, مریم السادات اخوان حجازی, Impacts of load modeling on generalized analytical reliability assessment of smart grid under various penetration levels of wind/solar/non-renewable distributed generations, *Sustainable Energy, Grids and Networks*, Vol. 20, pp. 1, 2019 09 04, SCOPUS ,JCR.
50. حامد هاشمی دزکی, حسین عسکریان ابیانه, امیرحسین شمس انصاری, محمد دهقانی سنیچ, مریم السادات اخوان حجازی, Direct cyber-power interdependencies-based reliability evaluation of smart grids including wind/solar/diesel distributed generations and plug-in hybrid electrical vehicles, *INT J ELEC POWER*, Vol. 93, pp. 1, 2017 12 11, ISI.
51. Hamed Hashemi , Dezakia Hossein Askarian , Abyanehb Amirhasan Shams , Ansaric Mohammad Dehghani Sanijd Maryam A. Hejazia, Direct cyber-power interdependencies-based reliability evaluation of smart grids including wind/solar/diesel distributed generations and plug-in hybrid electrical vehicles, *International Journal of Electrical Power & Energy Systems*, 2017 06 10.
52. M. Hamzeh, H. Hashemi, & Dezaki, H. Askarian Abyaneh, G. B. Gharehpetian, and B. 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*, 2016 10 10.
53. Hamed Hashemi et al., Impacts of direct cyber-power interdependencies on smart grid reliability under various penetration levels of microturbine/wind/solar distributed generations, *IET Generation, Transmission & Distribution*, 2016 10 03.
54. Hamed Hashemi et al., Sensitivity analysis of smart grids reliability due to indirect cyber-power interdependencies under various DG technologies, DG penetrations, and operation times, *Elsevier Energy Conversion and Management*, 2016 06 10.
55. Hamed Hashemi et al., Risk management of smart grids based on managed charging of PHEVs and vehicle-to-grid strategy using Monte Carlo simulation, *Energy Conversion and Management*, 2015 5 15.
56. H. Hashemi , Dezaki H. Askarian , Abyaneh H. Haeri , Khiavi, Reliability optimization of electrical distribution systems using internal loops to minimize energy not-supplied (ENS), *Journal of Applied*

Research and Technology,2015 12 25.

57. Mohammad Dehghani Sanij , Mahdi Dehghani , Ashkezari , Hamed Hashemi , Dezaki,Optimum Reserve Estimation in Micro-Grids containing Renewable Distributed Generation Resources,Indian Journal of Science & Technology,2015 12 10.

58. Hamed. Hashemi , Dezaki, Hossein.Askarian , Abyaneh, Gevork.B. Gharepetian, Hamed. Nafisi,Optimized Allocation of DGs to Improve System Reliability Based on Loading Effects.Arabian Journal for Science and Engineering,Arabian Journal for Science and Engineering,2014 12 20.

59. Masoud Mohammadalizadeh , Shabestary, Hamed Hashemi , Dezaki, Shahed Mortazavian, Hossein Askarian , Abyaneh and Gevork Gharehpetian,A general approach for optimal allocation of FACTS devices using equivalent impedance models of VSCs,International Transactions on Electrical Energy Systems,2014 12 20.