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Department: Electrical Engineering - Power

Education

Degree	Graduated in	Major	University
BSc	2008	Electricall Engineering	Tehran Polytechnic
MSc	2010	Electrical Engineering	Tehran Polytechnic
Ph.D	2015	Electrical Engineering	Tehran Polytechnic

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 Protectio, 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 61689 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

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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 مشخصه های استاندارد،بیست و هشتمین کنفرانس بین‌المللی شبکه‌های توزیع نیروی برق،۱ - زنجان،۲۰۲۴ ۰۴ ۳۰ .
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3. امیرحسین عطایی کچویی,حامد هاشمی دزکی,عباس کتابی،حفاظت تطبیقی بهینه ریزشبکه‌های هوشمند در حالت جزیره‌ای و متصل به شبکه با کاهش قیود مسئله،دهمین کنفرانس شبکه‌های هوشمند انرژی ۹۹ (SGC۲۰۲۰)،۱ - کاشان،۲۰۲۰ ۱۲ ۱۶ .
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5. علی محمد حریری,مریم السادات اخوان حجازی,حامد هاشمی دزکی،مدل سازی مناسب بار در ارزیابی قابلیت اطمینان شبکه های هوشمند توزیع انرژی الکتریکی با دیدگاه افزایش سرعت و حفظ دقت محاسبات،نشریه کیفیت و بهره وری صنعت برق ایران،مجلد ۷،شماره صفحات ۱۳۹۷/۱۲/۰۸،۹۵ISC.

6. شکیبا صادقی میرلطف اله,حامد هاشمی دزکی,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,مهرداد اصلانی,حامد هاشمی دزکی,عباس کتابی,Zacharie De Gr□ve,Fran□ois Vall□e,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,حامد هاشمی دزکی,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. پوریا عمرانی رهقی,حامد هاشمی دزکی,عباس کتابی,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.

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19. مهرداد اصلانی,حامد هاشمی دزکی,عباس کتابی,Analytical reliability evaluation method of smart micro-grids considering the cyber failures and information transmission system faults,IET Renewable Power Generation,Vol. 16,pp. 2816,2022 10 05,SCOPUS ,JCR.
20. 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.
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