



AMIN YAZDANINEJADI

Associate Professor, Ph.D.

Electrical Engineer-Power System Protection

Power Engineering Department

School of Electrical Engineering

FIELDS OF INTEREST

- Smart Distribution Grid Protection and Technologies;
- Protection of Active Distribution Networks;
- Protection and Control of Renewable Energy Systems and Microgrids;
- Distance and Overcurrent Relaying;
- Developing Protection Schemes and Strategies in Electrical Networks;
- System Security Enhancement.

ACADEMIC DEGREE

Associate Professor

H Index: 15

Citations: 800

HONORS AND AWARDS

- Outstanding Workshop, 6th Forum on Maintenance and Operation for West and Northwest Power Distribution Companies, 2017;
- Honor Student, Ph.D. Degree, 2019;
- Distinguished Researcher-Student Section, 2019;
- Scholarship Award, Iran's National Elites Foundation, 2018;
- Distinguished Reviewer, IEEE Transaction on Power Delivery, 2021.

EDUCATION

PH.D.: Electrical Power Engineering, Relaying and Protection/Protection coordination in modern meshed structure electrical grids with distribution generation considering transient stability and fault ride through, Urmia University, Urmia, Iran, Supervisor: **Prof. Daryoush Nazarpour**.

M.Sc.: Electrical Power Engineering, Relay and Protection/ Presentation of a General Algorithm for Dynamic and Online Adaptive Protection in Smart Grids, Amirkabir University of Technology, Tehran, Iran Supervisors: **Dr. Mehdi Salay Naderi** and **Prof. Gevork B. Gharehpetian**.

B.Sc.: Discrimination Between Inrush Current and Internal Faults in Transformer by Discrete Wavelet Transform/Electrical Engineering, Urmia University, Urmia, Iran, Supervisor: **Prof. Daryoush Nazarpour**.

Diploma: Mathematics and Physics, Shahed High school, Urmia, Iran.

ABOUT ME

First Name: Amin

Family Name: Yazdaninejadi

Birth: 23th January of 1990 Urmia, West-Azerbaijan, Iran

Nationality: Iranian

Status: Married

PH.D.: Electrical Power Engineering, Relaying and Protection/Protection coordination in modern meshed structure electrical grids with distribution generation considering transient stability and fault ride through, Urmia University, Urmia, Iran, Supervisor: **Prof. Daryoush Nazarpour**.

M.Sc.: Electrical Power Engineering, Relay and Protection/ Presentation of a General Algorithm for Dynamic and Online Adaptive Protection in Smart Grids, Amirkabir University of Technology, Tehran, Iran Supervisors: **Dr. Mehdi Salay Naderi** and **Prof. Gevork B. Gharehpetian**.

CONTACT

Shabanlou Ave, Lavizan, Tehran, Iran, P. O. Box: 16785-163.

+98 21 22970060

a.yazdaninejadi@sru.ac.ir;

a.yazdaninejadi@urmia.com;

a.yazdaninejadi@outlook.com.

PROFILES



HOBBIES

CONFERENCE SERVICES

- **Technical Reviewer**, Workshop, 6th Symposium on Maintenance and Operation for West and Northwest Power Distribution Companies, 2017
- **Technical and Executive Committee Member**, 1th Workshop on Operation of Modern Power System, (Keynote Speaker: Prof. Mohammad Shahidehpour), Urmia University, 2015.

TEACHING EXPERIENCES

Graduate Courses

Advanced Power System Protection, Fall 2020

Under-Graduate Courses

Power System Relaying and Protection, Fall 2020

- Power System Analysis I, Spring 2020 and Fall 2020
- Electrical Circuits II, Spring 2020
- Electrical Machines Lab II, Spring 2020
- Power Systems Lab, Fall 2020

INDUSTRIAL ACTIVITIES

- Operation of copper factory, 2015, Varzeghan, Songon, East Azerbaijan, Iran
- Technical expert in the project of exploitation of the Sangong Mine Factory, East Azarbaijan, Iran
- Expert and technical consultant in Ata and Orum company Arsin Niroo; has been working for more than 3 years

WORKSHOP ACTIVITIES

- **Presentation**, Protection Requirement in Distribution Systems with Distributed Generation Based on Presented Plan by Tvanir in 2013, Workshop, 6th Frorum on Maintenance and Operation for West and Northwest Power Distribution Companies, 2017
- **Presentation**, Protection Concerns in Active Distribution Networks Besides Contemplating Transient Stability Constraints, at Technical and Vocational University, under preparation (The Proposal is Accepted)

PUBLICATIONS

Total publications: 50

Book Chapters

1. [A. Yazdaninejadi](#), A. Hamidi, S. Golshannavaz, *Microgrids Advances in Operation, Control, and Protection / Fault Identification, Protection Schemes, and Restoration Requirements of Microgrids* [Springer](#), 2021.

Manuscripts in Newsletters

1. [A. Yazdaninejadi](#), S. Golshannavaz, & F. Aminifar, Relay-to-Relay Communication in Smart Grids Yields Robust Protection. [IEEE Smart grid](#), Published 2020.

Journal Papers

1. [A. Yazdaninejadi](#), S. Golshannavaz, D. Nazarpour, S. Teimourzadeh, F. Aminifar, Dual-Setting Directional Overcurrent Relays for Protecting Automated Distribution Networks, [IEEE Transactions on Industrial Informatics](#), to appear, 2018.
2. S. Rashaee, [A. Yazdaninejadi](#), An improved dynamic model for overcurrent relays in protection of electrical networks: Addressing two-level fault currents, [Electric Power Systems Research](#), 246, 111713, 2025.
3. [A. Yazdaninejadi](#), H. Ebrahimi, and S. Golshannavaz, An Advanced Local Current-Only Protection for Microgrids: Deep-Learning-based Approach. [IEEE Access](#), 2025.
4. H. Ebrahimi, S. Golshannavaz, [A. Yazdaninejadi](#), & E. Poursmaeil, E, A Hidden Surveillance Transmission Line Protection Layer for Cyber-Attack Resilience of Power Systems. [IEEE Open Journal of the Industrial Electronics Society](#), 2025.
5. M. Mokhtari, I. F. Davoudkhani, S. Golshannavaz, [A. Yazdaninejadi](#), Clean generations in sub-synchronous resonance damping: Mathematical modelling, control, and analysis of tidal power generation. [IET Smart Grid](#), 8(1), e12204., 2025.
6. [A. Yazdaninejadi](#), and M. Akhavan, New Distance Protection Framework in Sub-Transmission Systems through an Innovative User-defined Approach, [Journal of Electrical and Computer Engineering Innovations \(JECED\)](#), 169-180, 2025.
7. M. Esmaeeli, H. Afkar, M. Majidzadeh, S. Golshannavaz, and [A. Yazdaninejadi](#), Coincident Analysis of Photovoltaics Generation and Consumers Consumption Patterns on Distribution Networks. [IEEE Access](#), 2024.
8. A. Amraeimonfared, [A. Yazdaninejadi](#), and S. Teimourzadeh, Developing a New AI-Based Protection Scheme for DER-Integrated Distribution Networks: A Techno-Economic Approach, [IEEE Access](#), 2024.
9. Ebrahimi, H., Golshannavaz, S., [Yazdaninejadi, A.](#) and Poursmaeil, E, Improving protection reliability of series-compensated transmission lines by a fault detection method through an ML-based model, [IET Generation, Transmission & Distribution](#), 18(21), pp.3452-3461, 2024
10. Sheikhi, M., Nazarpour, D., Golshannavaz, S. and [Yazdaninejadi, A.](#) Protection enhancement in modern distribution networks considering on-load tap changer operations side-effects, [IEEE Access](#), 12, pp.76744-76752.
11. Spertip, M., Karbalaei, F., & [Yazdaninejadi, A.](#) Conservation Voltage Reduction Technology Yields Sustainable Electrifications: An Exploratory Study on Implementation Capability. [Scientia Iranica](#), 2023.

12. [Yazdaninejadi, A.](#), & Ebrahimi, H, A new protection algorithm for tackling the impact of fault-resistance and cloud energy storage on coordination of recloser-fuse protection. [IET Generation, Transmission & Distribution](#), 17(8), 1827-1835, 2023.
13. Ebrahimi, H., [Yazdaninejadi, A.](#), & Golshannavaz, S, Transient stability enhancement in multiple-microgrid networks by cloud energy storage system alongside considering protection system limitations. [IET Generation, Transmission & Distribution](#), 17(8), 1816-1826, 2023.
14. Ebrahimi, H., [Yazdaninejadi, A.](#), & Golshannavaz, S, Decentralized prioritization of demand response programs in multi-area power grids based on the security considerations. [ISA transactions](#), 134, 396-408, 2023.
15. Mortezapour, V., Golshannavaz, S., Pouresmaeil, E., & [Yazdaninejadi, A.](#), A new hybrid control technique for operation of DC microgrid under islanded operating mode. [Protection and Control of Modern Power Systems](#), 7(4), 1-11, 2022.
16. Ebrahimi, H., [Yazdaninejadi, A.](#), Golshannavaz, S., & Teimourzadeh, S, An ENS-oriented voltage protection scheme for inverter-based generators in active distribution networks. [IEEE Transactions on Smart Grid](#), 13(4), 2639-2649.
17. [A. Yazdaninejadi](#), M. S. Naderi, G. B. Gharehpetian, V. Talavat, Protection Coordination of Directional Overcurrent Relays: New Time Current Characteristic and Objective Function. [IET Generation, Transmission & Distribution](#), Published, 2017.
18. [A. Yazdaninejadi](#), D. Nazarpour, S. Golshannavaz. Dual-setting Directional Over-Current Relays: An Optimal Coordination in Multiple Source Meshed Distribution Networks. [International Journal of Electrical Power & Energy Systems](#), published, 2017.
19. [A. Yazdaninejadi](#), D. Nazarpour, V. Talavat, Optimal Coordination of Dual-setting Directional Over-Current Relays in Multi-Source Meshed Active Distribution Networks Considering Transient Stability. [IET Generation, Transmission & Distribution](#), Published, 2018.
20. [A. Yazdaninejadi](#), D. Nazarpour, V. Talavat, Coordination of Mixed Distance and Directional Overcurrent Relays: Miscoordination Elimination by Utilizing Dual Characteristics for DOCRs. [International Transactions on Electrical Energy Systems](#), Published, 2018.
21. [A. Yazdaninejadi](#), A. Hamidi, S. Golshannavaz, F. Aminifar, & S. Teimourzadeh, Impact of inverter-based DERs integration on protection, control, operation, and planning of electrical distribution grids. [The Electricity Journal](#), Published, 2019.
22. [A. Yazdaninejadi](#), V. Talavat, & S. Golshannavaz, A dynamic objective function for communication-based relaying: Increasing the controllability of relays settings considering N-1 contingencies. [International Journal of Electrical Power & Energy Systems](#), Published, 2020.
23. [A. Yazdaninejadi](#) & S. Golshannavaz, S. (2020). Robust protection for active distribution networks with islanding capability: An innovative and simple cost-effective logic for increasing fault currents virtually. [International Journal of Electrical Power & Energy Systems](#), Published, 2020.

24. [A. Yazdanejadi](#), D. Nazarpour, & S. Golshannavaz, Sustainable electrification in critical infrastructure: Variable characteristics for overcurrent protection considering DG stability. [Sustainable Cities and Society](#), Published, 2020.
25. [A. Yazdanejadi](#), D. Nazarpour, & V. Talavat, Fast Protection Scheme for Active Distribution Networks: Breaking Chains by Utilizing Auxiliary Relays. [Journal of Modern Power Systems and Clean Energy](#), Published 2020.
26. T. G. Bolandi, & [A. Yazdanejadi](#), Vulnerability assessment approach for real-time and regional monitoring of backup protections: minimizing number of GPS-based distance relays. [IET Generation, Transmission & Distribution](#), Published 2020.
27. S. Sabour, D. Nazarpour, D., Golshannavaz, [A. Yazdanejadi](#), & M. Hassanifar, A new quasi-resonant switched capacitor multilevel inverter with the self-voltage balancing capability. [International Transactions on Electrical Energy Systems](#), Published 2020.
28. M. Khoshbouy, [A. Yazdanejadi](#), TG. Bolandi, Transmission line adaptive protection scheme: A new fault detection approach based on pilot superimposed impedance. [International Journal of Electrical Power & Energy Systems](#), Published 2022.
29. H. Ebrahimi, [A. Yazdanejadi](#), S. Golshannavaz, Demand response programs in power systems with energy storage system-coordinated wind energy sources: A security-constrained problem. [Journal of Cleaner Production](#), Published 2022.
30. H. Ebrahimi, M. Abapour, B. Mohammadi-Ivatloo, S. Golshannavaz, [A. Yazdanejadi](#), Decentralized approach for security enhancement of wind-integrated energy systems coordinated with energy storages, [International Journal of Energy Research](#), Published 2021.
31. [A. Yazdanejadi](#), J. Jannati, M. Farsadi, A New Formulation for Coordination of Directional Overcurrent Relays in Interconnected Networks for Better Miscoordination Suppression. [Trans. Electr. Electron. Mater. \(TEEM\)](#), Published, 2017.
32. J. Jannati, [A. Yazdanejadi](#) and V. Talavat, Simultaneous Planning of Renewable/Non-Renewable Distributed Generation Units and Energy Storage Systems in Distribution Networks. [Trans. Electr. Electron. Mater. \(TEEM\)](#), Published, 2017.
33. J. Jannati, [A. Yazdanejadi](#) and D. Nazarpour, Power System Rotor Angle Stability Improvement via Coordinated Design of AVR, PSS2B, and TCSC-Based Damping Controller. [Trans. Electr. Electron. Mater. \(TEEM\)](#), Published, 2016.
34. [A. Yazdanejadi](#), M. Farsadi, and T. Sattarpour. Simultaneously Optimal Placement and Operation Scheduling of BESSs and DGs in Distribution Networks in order to minimizing net present value related to power losses. [IU-Journal of Electrical & Electronics Engineering](#), published, 2016.

۳۵. رشائی، سالار، یزدانی نژادی، & امین. (۲۰۲۴). ارائه یک طرح حفاظتی جدید برای شبکه‌های توزیع فعال با در نظر گرفتن جریان خطای دو سطحی. نشریه مهندسی برق و الکترونیک ایران، ۲۱(۴)، ۱۴۷-۱۵۵.

۳۶. آقازاده, سینا, یزدانی نژادی, & امین. (۲۰۲۵). تأثیر سو جریان‌های خطای دو سطحی در برآورده‌شدن گذر از خطای تولیدات پراکنده توسط سیستم‌های حفاظتی. نشریه مهندسی برق و الکترونیک ایران, پذیرفته شده.

Conference Papers

1. H. Ebrahimi, [A. Yazdanejadi](#), S. Golshannavaz, S., & Pouresmaeil, E. (2024, June). Improving protection reliability of multi-source meshed power systems by an automation-assisted overcurrent protection. In 2024 IEEE [22nd Mediterranean electrotechnical conference \(MELECON\)](#) (pp. 1299-1304). IEEE, Portugal, (In English).
2. Ebrahimi, H., [Yazdanejadi, A.](#), Golshannavaz, S., & Pouresmaeil, E. (2024, June). A Nonstandard Time-Voltage-Current Characteristic for Overcurrent-Distance Coordination. In 2024 IEEE [22nd Mediterranean Electrotechnical Conference \(MELECON\)](#) (pp. 266-271). IEEE, Portugal, (In English).
3. [A. Yazdanejadi](#), D. Nazarpour, S. Golshannavaz, Considering the Effect of Fault Location on Optimal Coordination of Overcurrent Relays in Microgrid in the Presence of Fault Current Limiter. In [Proc. 4th International Congress on Electric Industry Automation](#), Tabriz, Iran, 23-24 February 2016 (In Persian)
4. H. Hosseinnejad, M. Sabri [A. Yazdanejadi](#), M. Farsadi, Design of New Power Supply Model for Automation Systems. In [Proc. 4th International Congress on Electric Industry Automation](#), Tabriz, Iran, 23-24 February 2016 (In English)
5. M. Farsadi, T. Sattarpour, and [A. Yazdanejadi](#), Optimal Placement and Operation of BESS in a Distribution Network Considering the Net Present Value of Energy Losses Cost, [9th International Conference on Electrical and Electronics Engineering](#), (ELECO), IEEE, Bursa, Turkey 2015. (In English)
6. M. Farsadi, [A. Yazdanejadi](#), and A. EsmailiNasab, Reducing Over-Current Relays Operating Times in Adaptive Protection of Distribution Networks Considering DG Penetration, [9th International Conference on Electrical and Electronics Engineering](#), (ELECO), IEEE, Bursa, Turkey, 2015. (In English)
7. [A. Yazdanejadi](#), M. S. Naderi, G. B. Gharehpetian, Improvement Overcurrent Relaying in Microgrids with adaptive relays [10th International Conference on Power Systems Protection and Control](#), (PSPC), 2014. (In Persian)
8. J. Jannati, [A. Yazdanejadi](#) and M. Farsadi, Optimal Power Distribution Reconfiguration with Hyper-Spherical Search Algorithm and Comparing with Other Algorithm, [4th International Conference on Electrical and Computer Engineering](#), Tehran, Iran, 2015. (In Persian)
9. [A. Yazdanejadi](#), M. S. Naderi, G. B. Gharehpetian, Optimal Overcurrent Protection Coordination in Smart Sub-Transmission Networks with DG Units for Off-grid and On-grid Operation, [Smart Grid Conference](#), Iran, 2014. (In Persian)

10. [A. Yazdaninejadi](#), H. Hosseinejad, M. Sabri, Optimal Overcurrent Protection Coordination in Microgrids with considering DG Outage, [21th Power Distribution Conference](#), Iran, 2017. (In Persian)
11. H. Hosseinejad, [A. Yazdaninejadi](#), V. Talavat, Automation of Connecting and outage of DGs in the Case of Load Variations by Smart Multi-Objective Algorithm, [3th Conference on Development of Electrical and Mechanical Engineering \(ECEM\)](#), Iran, 2016. (In Persian)

PROJECTS IN INDUSTRIES & UNIVERSITIES

1. [A. Yazdaninejadi](#), Vulnerability assessment and resiliency enhancement of electrical distribution grids around Urmia lake against dust and salt haze, [West Azerbaijan electricity power distribution](#), 1399.
2. [A. Yazdaninejadi](#), A Multi-objective approach based on fuzzy decision making to protect variable fault currents due to presence of distributed generation, [Urmia University](#), 1397.

EDUCATION

PH.D.: Electrical Power Engineering, Relaying and Protection/Protection coordination in modern meshed structure electrical grids with distribution generation considering transient stability and fault ride through, Urmia University, Urmia, Iran, Supervisor: **Prof. Daryoush Nazarpour**.

M.Sc.: Electrical Power Engineering, Relay and Protection/ Presentation of a General Algorithm for Dynamic and Online Adaptive Protection in Smart Grids, Amirkabir University of Technology, Tehran, Iran Supervisors: **Dr. Mehdi Salay Naderi** and **Prof. Gevork B. Gharehpetian**.

B.Sc.: Discrimination Between Inrush Current and Internal Faults in Transformer by Discrete Wavelet Transform/Electrical Engineering, Urmia University, Urmia, Iran, Supervisor: **Prof. Daryoush Nazarpour**.

Diploma: Mathematics and Physics, Shahed High school, Urmia, Iran.

LANGUAGES

International Language: English (Fluent)

Native Language: Persian (Farsi)

Native Language: Azerbaijani-Turkey

COMPUTER SKILLS

Software: MATLAB/Simulink, PSCAD, DigSILENT Power Factory, and GAMS.

Optimization Algorithms: Genetic and Particle Swarm Optimization.

Operating Systems and Microsoft Office: Microsoft Windows XP/ 7/ 8/ 10, Word, Excel, PowerPoint, Visio.

Graphic Tools: Adobe Photoshop CS4, CorelDraw.