

SAEED TEIMOURZADEH

DEPUTY DIRECTOR (PROJECTS)

PH.D. IN ELECTRICAL POWER ENGINEERING

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PERSONAL INFORMATION

Nationality: Iranian
Birth Date: 6 August 1990
Place of Birth: Tabriz, Iran
Marital Status: Single

FIELDS OF INTEREST

- Power System Protection
- Microgrid and Distribution Systems
- Smart Grid Initiatives
- Power System Planning and Optimization

EDUCATION

- 2016-2017** *Research Associated in Electrical Engineering – Power systems*
Illinois Institute of Technology, Chicago, IL, USA.
Supervisor: Prof. Mohammad Shahidehpour
- 2014 – 2018** *PhD. in Electrical Engineering – Power systems,*
University of Tehran, School of Electrical and Computer Engineering, Tehran, Iran.
Overall GPA: **19.79/20**,
Thesis: *Microgrid Protection Preserving Dynamic Security of Distributed Generators.*
(Score: **Excellent**)
Supervisors: Dr. F. Aminifar, Dr. M. Davarpanah
Advisor: Prof. Mohammad Shahidehpour
- 2012 –2014** *M.Sc. in Electrical Engineering – Power systems,*
University of Tabriz, Department of Electrical and Computer Engineering, Tabriz, Iran.
Overall GPA: **19.37/20.00**,
Thesis: *Transmission Expansion Planning Revision to Reduce Short-Circuit Level.*
(Score: **Excellent**)
Supervisor: Dr. H. Seyedi
Advisor: Dr. Behnam Mohammadi-Ivatloo
- 2008-2012** *B.Sc. in Electrical Engineering – Power systems,*
University of Tabriz, Department of Electrical and Computer Engineering, Tabriz, Iran.
Overall GPA: **18.00/20.00**,
Thesis: *Short-Circuit Level Reduction in Power System.*
(Score: **Excellent**)
Supervisor: Dr. H. Seyedi

HONORS AND AWARDS

- Awarded as 2018 “Excellence in Reviewing” by the assessment of *Journal of Modern Power Systems and Clean Energy* (MPCE) Editorial Board Committee
- Awarded for Research Assistant scholarship from Iran Elites National Foundation, 2017-2018.

- Awarded for Ph.D. dissertation scholarship from Iran Elites National Foundation, 2016-2018.
- Awarded as elected engineering and technical M.S. student, Tabriz University, 2014
- Honor Student, M.S. Degree in Power Engineering Group, Electrical Engineering Department, Tabriz University, 2014.
- Recognized as one of the exceptional M.S. talents by office of Exceptional Talents of Tabriz University, 2012-2014.
- Elected as a Member of Iran Elites National Foundation, 2013-Present
- Honor Student, B.S. Degree in Power Engineering Group, Electrical Engineering Department, Tabriz University, 2012.
- Recognized as one of the exceptional B.S. talents by office of Exceptional Talents of Tabriz University, 2008-2012.

PUBLICATIONS

Book Chapter:

- [1] **Saeed Teimourzadeh** and Behnam Mohammadi-Ivatloo. "Probabilistic Load Flow Module for Power Factory DIGSILENT", Book Chapter In: Power Factory Applications for Power System Analysis, Springer International Publishing, May 2014, pp. 61-84.
- [2] Şeyda Ertekin, Ozan Keysan, Murat Göl, Hande Bayazıt, Tuna Yıldız, Andrea Marr, Mehdi Ganji, **Saeed Teimourzadeh**, Osman Bülent Tör, Sıla Özkavaf. "METU Smart Campus Project (iEAST)". Book Chapter In: New Technologies, Development and Application II. NT 2019. Lecture Notes in Networks and Systems, Volume 76, April 2019.

Journal Papers:

- [1] **Saeed Teimourzadeh**, Osman Bulent Tor, Mahmut Erkut Cebeci, Adela Bara, and Simona Vasilica Oprea. "A Three-Stage Approach for Resilience-Constrained Scheduling of Networked Microgrids" Journal of Modern Power and Clean Energy, (Accepted for publication).
- [2] **Saeed Teimourzadeh**, Farrokh Aminifar, Mahdi Davarpanah and Mohammad Shahidehpour. "An Adaptive Reclosing Scheme for Preserving Dynamic Security in Low-Inertia Microgrids" IEEE Transactions on Smart Grid, (Accepted for publication).
- [3] **Saeed Teimourzadeh**, Farrokh Aminifar, Mahdi Davarpanah and Mohammad Shahidehpour. "Adaptive Control of Microgrid Security" IEEE Transactions on Smart Grid, Volume 9, Issue 4, July 2018, pp. 3909 - 3910.
- [4] **Saeed Teimourzadeh**, Farrokh Aminifar, and Mohammad Shahidehpour. "Contingency-Constrained Optimal Placement of Micro-PMUs and Smart Meters in Microgrids" IEEE Transactions on Smart Grid, Volume 10, Issue 2, March 2018, pp. 1889 - 1897.
- [5] **Saeed Teimourzadeh**, Farrokh Aminifar, Mahdi Davarpanah and Mohammad Shahidehpour. "Adaptive Protection for Preserving Microgrid Security" IEEE Transactions on Smart Grid, Volume 10, Issue 1, Jan. 2019, pp. 592 - 600.
- [6] **Saeed Teimourzadeh**, Farrokh Aminifar, and Mahdi Davarpanah. "Microgrid dynamic security: Challenges, solutions and key considerations" The Electricity Journal, Volume 30, Issue 4, May 2017, pp. 43-51.
- [7] **Saeed Teimourzadeh**, Mahdi Davarpanah, Farrokh Aminifar and Mohammad Shahidehpour. "An Adaptive Auto-Reclosing Scheme to Preserve Transient Stability of Microgrids" IEEE Transactions on Smart Grid, Volume 9, Issue 4, July 2018, pp. 2638 - 2646.
- [8] **Saeed Teimourzadeh**, Farrokh Aminifar, Mahdi Davarpanah, and Josep M. Guerrero. "Macro Protections for Micro Grids: Toward a New Protection Paradigm Subsequent to Distributed Energy Resource Integration" IEEE Industrial Electronics Magazine, Volume 10, Issue 3, September 2016, pp. 6-18.
- [9] **Saeed Teimourzadeh** and Farrokh Aminifar. "MILP Formulation for Transmission Expansion Planning with Short-Circuit Level Constraints" IEEE Transactions on Power Systems, Volume 31, Issue

4, July 2016, pp. 3109 - 3118.

- [10] Mona Bisadi, Alireza Akrami, **Saeed Teimourzadeh**, Farrokh Aminifar, Mehdi Kargahi, and Mohammad Shahidehpour. "IoT-enabled Humans in the Loop for Energy Management Systems" IEEE Electrification Magazine, Volume 6, Issue 2, June 2018, pp. 64-72.
- [11] Amin YazdaniNejadi, Sajjad Golshannavaz, Daryoosh Nazarpour, **Saeed Teimourzadeh**, and Farrokh Aminifar. "Dual-Setting Directional Overcurrent Relays for Protecting Automated Distribution Networks" IEEE Transactions on Industrial Informatics, Volume 15, Issue 2, Feb. 2019, pp. 730 - 740.
- [12] Amin YazdaniNejadi, Amir Hamidi, Sajjad Golshannavaz, Farrokh Aminifar, and **Saeed Teimourzadeh**. "Impact of Inverter-Based DERs Integration on Protection, Control, Operation, and Planning of Electrical Distribution Grids" The Electricity Journal, Volume 32, Issue 6, July 2019, pp. 43 - 56.
- [13] Manijeh Alipour, **Saeed Teimourzadeh** and Heresh Seyedi. "Improved Group Search Optimization Algorithm for Coordination of Directional Overcurrent Relays." Elsevier, Swarm and Evolutionary Computation, Volume 23, August 2015, pp. 40-49.
- [14] Heresh Seyedi, **Saeed Teimourzadeh** and Peyman Soleiman Nezhad. "Adaptive Zero Sequence Compensation Algorithm for Double-Circuit Transmission Line Protection." IET Generation, Transmission & Distribution, Volume 8, Issue 6, February 2014, pp. 1107-1116.
- [15] Narges Daryani, Mehrdad Tarafdar Hagh, **Saeed Teimourzadeh**. "Adaptive Group Search Optimization Algorithm for Multi-Objective Optimal Power Flow Problem." Elsevier, Applied Soft Computing, Volume 38, January 2016, pp. 1012-1024.
- [16] Mehrdad Tarafdar Hagh, **Saeed Teimourzadeh**, Manijeh Alipour and Parinaz Aliasghary. "Improved Group Search Optimization Method for Solving CHPED in Large Scale Systems." Elsevier, Energy Conversion and Management, Volume 80, Issue 4, April 2014, pp. 446-456.
- [17] **Saeed Teimourzadeh** and Kazem Zare. "Application of Binary Group Search Optimization to Distribution Network Reconfiguration." Elsevier, International Journal of Electrical Power & Energy Systems, Volume 62, April 2014, pp. 461-468.
- [18] Mehrdad Tarafdar Hagh, Manijeh Alipour and **Saeed Teimourzadeh** "Application of HGSO to Security Based Optimal Placement and Parameter Setting of UPFC." Elsevier, Elsevier, Energy Conversion and Management, Volume 86, June 2014, pp. 873-885.

Conference Papers:

- [1] Mehrdad Tarafdar Hagh, **Saeed Teimourzadeh**, Manijeh Alipour. "Combined Heat and Power Dispatch using Modified Group Search Optimization Method." International Power System Conference (PSC), 28th International Conference on, 2013.

WORK

EXPERIENCE

- **Jan. 2019 to present:** Deputy Director (Technical), EPRA, Turkey.
- **June 2018 to Jan. 2019:** project manager and senior R&D engineer, EPRA, Turkey.
- Internship, Azarbaijan Electrical Power Maintenance Company, Tabriz, Iran, 2011.

PROFESSIONAL

ACTIVITIES

- Student Member, IEEE
- Member, IEEE Power & Energy Society
- Young Professionals, IEEE

TEACHING

EXPERIENCES

Under-Graduate Courses:

"Electrical Circuits I", University of Tehran, Spring 2016.

Teaching Assistantship:

Fall 2015,

"Power System Planning", Supervisor: Dr. F. Aminifar

Spring 2014,

“Power System Analysis”, Supervisor: Dr. M. Tarafdar Hagh
Spring 2014,
 “High Voltage Substation Design”, Supervisor: Dr. H. Seyedi
Fall 2013,
 “Power System Analysis”, Supervisor: Dr. H. Seyedi
Fall 2013,
 “Power System Protection”, Supervisor: Dr. H. Seyedi
Spring 2013,
 “Power System Analysis”, Supervisor: Dr. M. Tarafdar Hagh
Fall 2012,
 “Power System Analysis”, Supervisor: Dr. H. Seyedi

INVOLVED INDUSTRIAL PROJECTS	<ul style="list-style-type: none"> • Fall 2018, Multi-Layer Aggregator Solutions to Facilitate Optimum Demand Response and Grid Flexibility (Smart-MLA), funded by ERA-NET (Project Engineer). • Fall 2018, COBENEFITS Project - Assessing the Co-Benefits of Renewable Power Generation in Turkey, funded by Institute for Advanced Sustainability Studies (Project Engineer). • Fall 2018, High Impedance Fault Detection on LV Networks, funded by Republic of Turkey Energy Market Regulatory (EMRA) (Project Consultant). • Fall 2018, METU Smart Campus Road Map, funded by United States Trade and Development Agency (USTDA) (Project Manager for local support) • Summer 2018, Investigation of Necessary Conditions for Feeding the Network in Isolated Island Mode of Hydraulic Power Plants Connected to the Distribution Network, funded by Turkish Energy Market Regulatory Authority (EMRA) (Project Manager) • Fall 2017, Designing Special Protection Scheme for Iranian Power Network (Iran Grid Management Co. (IGMC)). • Fall 2014, Tariff Policy Modifications in Electricity Industry after Restructuring (Iran Grid Management Co. (IGMC)). • Spring 2014, Short-Circuit Level Reduction in Azerbaijan Power Network (Azerbaijan Regional Electric Co.) • Fall 2013, Analysis and simulator on protection system of Azerbaijan Power Network and its Implementation (Azerbaijan Regional Electric Co.) • Spring 2011, Designing Reliable Grounding System for Distribution Systems (Tabriz Electrical Power Distribution Co.)
COMPUTER SKILLS	<ul style="list-style-type: none"> • General: Office, LATEX • Electrical Engineering Software: Power Factory DIGSILENT, PSCAD/EMDC, ATP/EMTP, PSSE/PTI, ETAP. • Programming Languages: MATLAB, C++, DIGSILENT programming language (DPL). • Optimization software: GAMS.
SCIENTIFIC SERVICES	<ul style="list-style-type: none"> • Associate Editor of Journal of Modern Power Systems and Clean Energy • Reviewer of IEEE Transactions on Power Systems • Reviewer of IEEE Transactions on Smart Grid • Reviewer of IEEE Transactions on Sustainable Energy • Reviewer of IEEE Transactions on Power Delivery • Reviewer of IEEE Power Engineering Letters • Reviewer of IEEE Transactions on Industrial Informatics • Reviewer of IET Electronics Letters • Reviewer of IET Smart Grid • Reviewer of IET Generation, Transmission & Distribution • Reviewer of International Journal of Electrical Power & Energy Systems – Elsevier • Reviewer of Electric Power Components and Systems – Taylor & Francis

- Reviewer of Journal of Modern Power Systems and Clean Energy– Springer
- Reviewer of Journal of Ambient Intelligence and Humanized Computing– Springer
- Reviewer of Iranian Journal of Science and Technology, Transactions of Electrical Engineering
- Reviewer of 2016 PowerEnergy Competition – ASME
- Reviewer of 5th Iranian Conference on Smart Grid - Niroo Research Institute - Tehran -Iran (2014)

LANGUAGES

English: Fluent
Persian: Fluent
Turkish: Mother Tongue

REFERENCES

Prof. Mohammad Shahidepour
Dr. Osman Bülent Tör
Dr. Farrokh Aminifar

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