

Education

- Since 2015: PhD, DIAEE, Faculty of Electrical Engineering, Sapienza University of Rome, Italy.
- 2011-2013: MSc, Power system, Faculty of Electrical and Computer Engineering, Azad University, Birjand Branch, Iran , GPA: 18.49/20.
- 2007-2009: Associated degree, Power system group, Faculty of Electrical and Computer Engineering, Ebnehesam University, Birjand, Iran.

Patent

Inventors: **Mostafa Kermani**, Mohamad Esmaeil Ghasemzadeh.

Title: “Smart Insulators for Electrical Network Monitoring”.(10 Jan 2015).

Statement Number:139350140003008573.

Number of patents:84749.

International Classification: H04B;H04G;G21C17/00;G06.

Further Education

- Successfully Attended and pass “patent arbitration course”, and earned the certificate, namely, the arbiter of projects related to national patents.
- Industrial Electricity professional certificate from Iran Technical and Vocational Training Organization according to Standard No: 83-8-55/15 for 1238 hours.
- Skilled worker of MATLAB certificate from Iran Technical and Vocational Training Organization according to Standard No: 0-32/35/1/1 for 70 hours.
- Skilled worker of PLC S7 certificate from Iran Technical and Vocational Training Organization according to Standard No 45/35/8/21 for 120 hours.

Award

- The third rank between students at Azad University of Birjand with GPA: 18.49/20.
- Best young researcher in Southern Khorasan, 2014, Iran.

Experience

Academic

- Session Chair of Energy Storage for Power Systems Application in IEEE Conference (EEEIC2018, Palermo, Italy).
- Session Chair of Power Systems Stability, Security and Resiliency in IEEE Conference (EEEIC2018, Palermo, Italy).
- Member of Chairs and Committees in 2018 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe 2018), Palermo, ITALY, 12-15 JUNE 2018.

- Member of Local Committees in 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe 2017), Milan, ITALY, 6-9 JUNE 2017.
- Member of Local Committees in 2016 IEEE International Conference on Environment and Electrical Engineering (EEEIC 2016), Florence, ITALY, 6-8 JUNE 2016.
- Lecturer, Faculty of Electrical and Computer Engineering, Ebnehesam University, Birjand, Iran, Since 2013 up to present.
- Lecturer, Faculty of Electrical and Computer Engineering, Hormozan University, Birjand, Iran, Since 2014 up to present.

Non Academic

- Collaboration and Consultation with Science and Technology Park Southern Khorasan.
- Chairman to board of directors in the Brains Trust to Tozi-e Nirooye Kavir Company with the registration No. 46294.
- Collaboration and Consultation in Abrysham Negar Pars Cooperative. Company with the registration No. 95141.

Teaching Experience

- Power Systems Analysis & Laboratory.
- Electrical Machineries.
- Linear Control System.
- Engineering Mathematics.
- Electric Circuits.

Research Interests

- Renewable Energy.
- Distributed Generation.
- Microgrids.
- Energy Storage Systems.
- Power Quality in Power system.

Thesis

- PhD thesis, “ **Optimization of Energy Consumption in STS Cranes by using Ultracapacitor based on PSO algorithm**”, Sapienza University of Rome, Italy, Supervisor: Prof. Giuseppe Parise, Advisor: Prof. Luigi Martirano.

- MSc thesis, “ **Transient Voltage Stability Analysis of an Isolated Micro Grid**”, Azad University, Birjand Branch, Supervisor: Prof. Reza Shariatinasab, Advisor: Prof. Hamid Falaghi. (Val: 19.50/20).
- BSc thesis, “**The feasibility of wind power plants in Birjand**”, Islamic Azad University, Birjand Branch, Supervisor: Prof. Majid Reza Naseh. (Val: 18.50/20).

Publications

- **Mostafa Kermani**, Mostafa Vahedi Pour “**Solution of Linear Control Systems, under publication**”, Simaye Danesh Publication Institute(**Book**).

Papers

- **Kermani, M.**, Parise, G., Martirano, L., Parise, L., & Chavdarian, B. Power Balancing in STS Port Cranes Based on Supercapacitor Bank with Optimization Algorithm. (Submitted on RTUCON) 2018 IEEE 59th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON). (Riga, November 2018).
- Martirano, L., **Kermani, M.**, Bayatmakoo, A., & Grasselli, U. Design and Implementation of Testbed Microgrid Lab under SCADA System. (Submitted on WorldS4 2018) World Conference on Smart Trends in Systems, Security and Sustainability (WS4 2018) ,IEEE Conference(London, October 2018).
- **Kermani, M.**, Parise, G., Martirano, L., Parise, L., & Chavdarian, B. Optimization of peak load shaving in STS Cranes Based on PSO Algorithm. 18th IEEE International Conference on Environment and Electrical Engineering & 2nd IEEE Industrial and Commercial Power Systems Europe Conference(Palermo, June 2018).
- Kalesar, B. M., Noshahr, J. B., Meykhosh, M. H., **Kermani, M.** & Bavandsavadkoohi, B., Effect of Angles of Harmonic Components of Back to Back Converter of Distributed Generation Resources on Current Behavior of Distribution Networks. 18th IEEE International Conference on Environment and Electrical Engineering & 2nd IEEE Industrial and Commercial Power Systems Europe (Palermo, June 2018).
- Kalesar, B. M., Noshahr, J. B., Meykhosh, M. H., **Kermani, M.** &. Multi-objective fuzzy model for optimal siting and sizing of DG units to reduce losses using Genetic Algorithm. 18th IEEE International Conference on Environment and Electrical Engineering & 2nd IEEE Industrial and Commercial Power Systems Europe (Palermo, June 2018).
- Noshahr, J. B., Meykhosh, M. H., & **Kermani, M.** (2017, June). Current harmonic losses resulting from first and second generation LED lights replacement with sodium vapor lights in a LV feeder. In Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe), 2017 IEEE International Conference on (pp. 1-5). IEEE.

- Parise, G., Martirano, L., **Kermani, M.**, & Kermani, M. (2017, June). Designing a power control strategy in a microgrid using PID/fuzzy controller based on battery energy storage. In Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe), 2017 IEEE International Conference on (pp. 1-5). IEEE.
- **Kermani, M.** (2016, June). Transient voltage and frequency stability of an isolated microgrid based on energy storage systems. In Environment and Electrical Engineering (EEEIC), 2016 IEEE 16th International Conference on (pp. 1-5). IEEE.
- Reza Shariatinasab, **Mostafa Kermani** , Moslem Monjezi,“ Control Strategies of Microgrid for Transient Stability Analysis: A Comparative Study”,Ist Author et al., International Journal of Advanced Research in Computer Science and Software Engineering,Vol.3, No.4, March - 2013, pp. 464-469.
- Ashkan Edrisian, Mohsen Hajian, **Mostafa Kermani**, Mahmoud Ebadian,“ Impact of Reactive Power on Stable Production of Wind Farms”, Majlesi Journal of Energy Management, Vol. 3, No. 4, December 2014.
- **Kermani, M.**, E. Ghasemzadeh, T. Vahidi, M. R. Naseh,“ Implementing BMS in household and commercial complexes using industrial PLCs as well as its impact on optimizing energy consumption”, 9th International energy conference, 2013.
- E.Ghasemzadeh, S. Khorashadi, M. Taghavi, **Kermani, M.** “SCADA and GIS systems link in order to the management of electricity distribution networks optimisation”, Iranian society of smart grid, 2013.
- Ashkan Edrisian, Mohsen Hajian, **Mostafa Kermani**, Mahmoud Ebadian,“ The effect of reactive power output on wind farms power stable ”, 6th Iranian Conference on Electrical and Electronics Engineering, 2014.
- **Mostafa Kermani**, Morteza Kermani, Hasan Marzani, Ali Fanudi, Mohamad Kermani,“ Energy supply for areas away from the network using hybrid systems and energy storage ”, 7th Conference renewable energy, clean and efficient, 2015.

Computer Skills

- Simulation Tools: Matlab Simulink, Homer, Digsilent, Calculux, Zuken E3.series.
- Technical Drawing: Visio, Edraw Max.
- General Package: MS-Word, Excel, Power Point.

Language Proficiency

- Persian: Native
- English: Certificate of IELTS Academic C1.
- Italiano: Certificate score of A1.

References

- Prof. G. Parise, full Professor, Electrical Eng. Dep., Sapienza University, Rome, Italy,(Email: giuseppe.parise@uniroma1.it).
- Prof. L. Martirano, full Professor, Electrical Eng. Dep., Sapienza University, Rome, Italy,(Email: luigi.martirano@uniroma1.it).
- Prof. M. R. Naseh, Assistant Professor of Electrical Eng., Dep., Islamic Azad University, Birjand Branch, Iran,(Email: naseh@iaubir.ac.ir)
- Prof. R. Shariatinasab, Associated Professor, Electrical and Computer Eng. Dep., Birjand University, Birjand, Iran,(Email: shariatinasab@birjand.ac.ir.)
- Prof. H. Falaghi, Assistant Professor, Electrical and Computer Eng. Dep., Birjand University, Birjand, Iran,(Email: h.falaghi@birjand.ac.ir.)

Rome, Italy.
August 2018.
Mostafa Kermani

