Parastou Poursoltan

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Education

M.Sc.: Energy Engineering, Sapienza University of Rome, Rome, Italy (September 2018- July 2021)

- **GPA:** 103 out of 110 (94%)
- **Dissertation Title:** Low-cost open-source smart monitoring systems in the secondary substations. Case study: *ASM Terni S.p.A*
  Supervisor: Professor Alberto Geri

M.Sc.: Industrial Engineering,The socio-economic systems of engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran (September 2015- July 2018)

- **GPA:** 17.47 out of 20
- **Dissertation Title:** Determining optimal resource allocation in emergency department to take into account the sharing resources, facility failures and impatient patients based on simulation-based optimization
  Supervisors: *Dr. Seyyed Mojtaba Sajjadi, Dr. Seyyed Jafar Sadjadi*

B.Sc.: Industrial Engineering, Seraj university, Tabriz, Iran (September 2010 - September 2014)

- **Major CGPA**: 15.69 out of 20
- **Dissertation Title:** Business process reengineering and its impact on productivity of Sheller Food Industry Co.

Experience

Teaching:

- University Of Tehran

  Teaching Assistant for "Engineering Statistics" course, Dr. Mojtaba Sajjadi (Spring 2017)

- University of Science and Research
  Teaching assistant for "Simulation" course, Dr. Mojtaba Sajjadi(Spring 2017)

Intern:

- ASM Terni S.p.A., Terni, Italy
  Set up a low-cost, open-source, and scalable monitoring system for smart grid applications using Raspberry Pi single-board computer and temperature, humidity, voltage, and current sensors. The metering device has measured ASM's headquarters power connection demand in the LV substation. (December 2020- July 2021).

Research Interests

- Renewable Energy System Modelling
- Simulation-Based Optimization
- Operation Research
- Smart Grids
- Electrical Power Systems
- Industrial Internet of Things

Publications

Journal articles:

- Ijadi Maghsoodi, A., Ijadi Maghsoodi, A., Poursoltan, P., Antucheviciene, J., & Turskis, Z. (2019). Dam construction material selection by implementing the integrated SWARA–CODAS approach with target-based attributes. *Archives of Civil and Mechanical Engineering*, *19*(4), 1194–1210.

Conference articles:

- Dell'Olmo, J.,Geri, A.,Carere, F., Poursoltan, P., Hadifar, N., Bucarelli, M A., Maccioni, M., Gatta, F M., Paulucci, M. (Distributed generation monitoring: a cost-effective Raspberry Pi-based device). *The 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET'2022)*.
- Geri, F. M. Gatta, M. Maccioni1, J. Dell'Olmo, F. Carere, M. A. Bucarelli, P. Poursoltan, N. Hadifar, M. Paulucci . (A low-cost smart monitoring device for Demand-side response campaigns). *International Congress on Information and Communication Technology*. *(ICICT 2022)*

Projects:

- Renewable energy system design for the touristic island: A case study in the south-west of Iran (10/2019 - 12/2019)
- Design of power system for smart buildings (09/2018 - 12/2018)
- Project work in Geothermal Energy (03/2019 - 06/2019)
- Ranking the performance of smart city practices using incidence matrix method: A case Study in Rome, Italy. (09/2019 - 01/2020)
- A comprehensive study of sizing and optimization of wind technologies the electricity supply of Giglio Island by wind plant (01/2020 - 04/2020)
- Energy audit in residential buildings: A case study in Tehran, Iran (10/2019 - 02/2020)

Computer & General Skills:

- MS. Office software (Excel, PowerPoint, Word, Visio, and MS. Project)
- RStudio, Python, and Matlab
- Minitab
- Teamwork
- Data collection
- Analytical Skills

Language Skills:

- **English**, Full working proficiency
- **Italian**, Limited working proficiency
- **Turkish**, Native