

Meysam Majidi Nezhad

Education and Training

- PhD** **Engineering of Energy and Environment (Department of Astronautics, Electrical and Energy Engineering (DIAEE))**
Sapienza University of Rome, Italy
Thesis Title: “ Renewable Energy Source Assessment Using Remote Sensing Techniques and Studies for Off-grid System” Oct 2016 – Feb 2020
Supervisor: Prof. Fabrizio Cumo
- M.Sc.** **Engineering of Natural Resources -Wood and Composite industries (Faculty of Agriculture and Natural Resources)**
University Science and Research Branch, Tehran, Iran
Thesis title: “Comparison Longitudinal Strain and Stress in Acer SPP and Quercus Castaneifolia C.A.M in West Mazandaran ” Sep 2010 - Feb 2013
Supervisor: Prof. Habibolah Khademi Eslam
- B.Sc.** **Engineering of Natural Resources -Wood and Paper Industries (Faculty of Agriculture and Natural Resources)**
Azad University Chalus, Iran Sep 2006 – Mar 2010

Research Experiences

1. Researcher at GIS and Forest monitoring laboratory Azad University Science and Research Branch, Tehran, Iran (Nov 2012- Jan 2016).
2. Research Associate in Biomass laboratory of Azad University Science and Research Branch, Tehran, Iran (Apr 2012- Sep 2016).

List of publications

1. A. Heydari, **M. Majidi Nezhad** et al. Short-term electricity price and load forecasting in isolated power grids based on composite neural network and gravitational search optimization algorithm. *Applied Energy* 277 (2020) 115503. <https://doi.org/10.1016/j.apenergy.2020.115503>.
2. **M. Majidi Nezhad** et al. A SWOT Analysis for Offshore Wind Energy Assessment Using Remote-Sensing Potential. *Appl. Sci.* 2020, 10(18), 6398; <https://doi.org/10.3390/app10186398>
3. M. Lamagna, B. Nastasi, D. Groppi, **M. Majidi Nezhad** & D. Astiaso Garcia. Hourly energy profile determination technique from monthly energy bills. *Build. Simul.* (2020). <https://doi.org/10.1007/s12273-020-0698-y>
4. **M. Majidi Nezhad** et al, Wind source potential assessment using Sentinel 1 satellite and a new forecasting model based on machine learning: A case study Sardinia islands. *Renewable Energy.* 155 (2020) 212-224. <https://doi.org/10.1016/j.renene.2020.03.148>
5. A. Razmjoo, N. Khalili, **M. Majidi Nezhad** et al, The main role of energy sustainability indicators on the water management. *Modeling Earth Systems and Environment.* 2020. <https://doi.org/10.1007/s40808-020-00758-1>
6. **M. Majidi Nezhad** et al, Wind energy potential analysis using Sentinel-1 satellite: A review and a case study on Mediterranean islands. *Renewable and Sustainable Energy Reviews* 109 (2019) 499–513. <https://doi.org/10.1016/j.rser.2019.04.059>
7. **M. Majidi Nezhad** et al. A Sediment Detection Analysis with Multi Sensor Satellites: Caspian Sea and Persian Gulf case studies. *Proceedings of the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19) Rome, Italy – April, 2019.* Paper No. ICEPTP 159. DOI: 10.11159/iceptp19.159
8. **M. Majidi Nezhad** et al. Land Cover Classification by using Sentinel-2 Images: A case study in the city of Rome. *Proceedings of the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19) Rome, Italy – April, 2019.* Paper No. ICEPTP 158. DOI: 10.11159/iceptp19.158.

9. **M. Majidi Nezhad** et al. Nearshore wave energy converters comparison and Mediterranean small island grid integration. *Sustainable Energy Technologies and Assessments*. 30(2018)68-76. <https://doi.org/10.1016/j.seta.2018.08.009>
10. D.Vijaykumar, **M. Majidi Nezhad**, G. Laneve. Land Cover Mapping Analysis Using Sentinel 1 Satellite: A Case Study of Hyderabad in INDIA. *The 5th International Symposium on Environment Friendly Energies and Applications (EFEA 2018)*. September 24-26 in Rome, Italy. DOI: 10.1109/EFEA.2018.8617099.
11. **M. Majidi Nezhad** et al. Mapping Sea Water Surface in Persian Gulf, Oil Spill Detection Using Sentinel-1 Images. *4th World Congress on New Technologies (NewTech'18)*. Madrid, Spain, August 19-21, 2018. DOI: 10.11159/icepr18.179.
12. **M. Majidi Nezhad** et al. Nearshore Wave Energy Assessment of Iranian Coastlines. *4th World Congress on New Technologies (NewTech'18)*. Madrid, Spain, August 19-21, 2018. DOI:10.11159/icepr18.180.
13. **M. Majidi Nezhad** et al. Oil Spill Detection Analyzing “Sentinel 2” Satellite Images: A Persian Gulf Case Study. *3rd World Congress on Civil, Structural, and Environmental Engineering (CSEE'18)*. Budapest, Hungary – April 8 - 10, 2018. DOI: 10.11159/awspt18.134.

Under Review:

14. **M. Majidi Nezhad** et al. A novel forecasting model for wind source assessment using Sentinel 1 images and machine learning method: a case study Favignana island. *12th International Conference on Sustainable Energy & Environmental Protection “SEEP 2019”*. November 18-21, 2019. University of Sharjah. Under Review: Renewable Energy Journal.
15. Heydari, **M. Majidi Nezhad** et al. Short-term Wind Turbine Power Production Forecasting using a Novel Combined Intelligent Model and SCADA Data. *4th South East European Conference on Sustainable Development of Energy, Water and Environment Systems (4th SEE SDEWES)*. June 28-July 2, 2020. Sarajevo, Bosnia and Herzegovina. Under Review: Energy Conversion and Management
16. **M. Majidi Nezhad** et al. Wind speed analysis using Sentinel-1 images and compared with SCADA data: a case study Lillgrund offshore wind farm. *4th South East European Conference on Sustainable Development of Energy, Water and Environment Systems (4th SEE SDEWES)*. June 28-July 2, 2020. Sarajevo, Bosnia and Herzegovina. Under Review: Journal of Environmental Management
17. M. Neshat, **M. Majidi Nezhad** et al. Hybrid Neuro-Evolutionary Method for Predicting Wind Turbine Power Output. *4th South East European Conference on Sustainable Development of Energy, Water and Environment Systems (4th SEE SDEWES)*. June 28-July 2, 2020. Sarajevo, Bosnia and Herzegovina. Under Review: Energy- an international journal.
18. M. Neshat, **M. Majidi Nezhad** et al. Adaptive Evolutionary Deep Learning Method for Short-term Wind Speed Prediction. *The 1th Asia pacific conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES)*. April 6- 9, 2020, Gold Coast, Australia. Under Review: Energy Conversion and Management
19. **M. Majidi Nezhad** et al. Wind energy potential reported by ERA-Interim Re-analysis dataset: A case study Samothraki Small Island. *1th Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems (1th SDEWES)*. April 06-09, 2020. Gold Coast, Australia. Under Review: Journal of Environmental Management

Conference
Certifications and
Participation's

1. **Presented a paper** in the 12th International Conference on Sustainable Energy & Environmental Protection “SEEP 2019”. November 18-21, 2019. University of Sharjah.
2. **Presented a paper** in the 14th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES). SPECIAL SESSION: Smart cities vs. smart islands: unique and common points, transferability of solutions and comparison of modelling approaches. 1- 6 October 2019, Dubrovnik, Croatia.
3. **Presented a paper** in the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19), Rome, Italy - April, 2019.
4. **Co-chair** of the Renewable energy sources Session (Session Chair: Prof, MOLDOVAN) in the 13th SDEWES Conference on Sustainable Development of Energy, Water and Environment Systems. September 30 – October 4, 2018. Palermo, Italy.
5. **Presented a paper** in the 13th SDEWES Conference on Sustainable Development of Energy, Water and Environment Systems. SPECIAL SESSION: Smart Islands - living labs for 100% renewable and sustainable communities, September 30 – October 4, 2018. Palermo, Italy.
6. **Session Chair** of the “Poster Session” in the 8th International Conference on Environmental Pollution and Remediation (ICEPR 18). August 19-21. 2018. Madrid, Spain.
7. **Presented a paper** in 4th World Congress on New Technologies (NewTech'18) Madrid, Spain – August

- 19 – 21, 2018.
8. **Session Chair** of the "Pollution and Health Issues" session at the 3rd World Congress on Civil, Structural, and Environmental Engineering (CSEE'18) Budapest, Hungary – April 8 - 10, 2018.
 9. **Presented a paper** in the 3rd World Congress on Civil, Structural, and Environmental Engineering (CSEE'18) Budapest, Hungary – April 8 - 10, 2018.
 10. **Presented a paper** in 9th European Seminar Offshore Wind and other marine renewable Energies in Mediterranean and European Seas (OWEMES). Politecnico di bari, Bari, Italy. October 11-13, 2017.

Research Projects

PRISMI Project (Interreg MED framework): PRISMI project has been completed with success and the PRISMI international network has been successfully developed. It comprehends academic and research institutions and, public or private organizations, at local or national level, and specialized agencies, interested or involved in the conversation and sustainable energy planning of Mediterranean islands. Web Site: <https://prismi.interreg-med.eu/>

ODYSSEA Project (2020 framework): The platform will collect its data from the many databases maintained by agencies, public authorities, and institutions of Mediterranean EU and non-EU countries, integrating existing earth observation facilities and networks in the Mediterranean Sea building on key initiatives such as Copernicus, GEOSS, GOOS, EMODNet, ESFRI, Lifewatch, Med-OBIS, GBIF, AquaMaps, Marine IBA e-atlas, MAPAMED. Web Site: <http://odysseaplatform.eu/>

Awards and Scientific Committee Member

1. **Scientific Committee.** 6th International Conference on Environmental Pollution, Treatment and Protection (ICEPTP'21). March 14, 2021 - March 16, 2021, London, England. <https://2021.iceptp.com/scientific-committee/>
2. **Symposium & Workshop.** 5th International Conference on Environmental Pollution, Treatment and Protection (ICEPTP'20). Energy and Environment Assessment based on Remote Sensing and Machine Learning. <https://iceptp.com/symposium-workshop/>
3. **Reviewer Board Members** of *Remote Sensing Journal*, MDPI (ISSN 2072-4292; IF 4.118), https://www.mdpi.com/journal/remotesensing/submission_reviewers.
4. **Reviewer Board Members** of *Sustainability Journal*, MDPI (IMPACT FACTOR 2.592).
5. Organizing Committee. International Conference on Renewable Energy and Sustainable Technologies. Theme: Navigating the Future: A Spectrum of Innovations for next generation. June 22-23, 2020. Rome, Italy. <https://www.coalesceresearchgroup.com/conferences/energytech/>
6. **Scientific Advisory Board**, 15th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 1-5, 2020. Cologne, Germany. <https://www.cologne2020.sdewes.org/scientific-advisory-board>.
7. **Scientific Advisory Board**, the 1st Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems. April 6-9, 2020, Gold Coast, Australia. <http://www.goldcoast2020.sdewes.org/scientific-advisory-board>.
8. **Scientific Committee:** 5th World Congress on Civil, Structural, and Environmental Engineering (CSEE'20) April 19 - 21, 2020. Lisbon, Portugal. <https://cseecongress.com/committee>.
9. **Scientific Advisory Board**, the 4th South East European Conference on Sustainable Development of Energy, Water and Environment Systems. June 28- July 02, 2020. Sarajevo, Bosnia and Herzegovina. <http://www.sarajevo2020.sdewes.org/organizers-and-committees>.
10. **Scientific Advisory Board**, 14th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), October 1 – 5, 2019 Dubrovnik. Croatia <http://www.dubrovnik2019.sdewes.org/sab.php>
11. **Scientific Advisory Board**, 13th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 30- October 4, 2018. Palermo, Italy. <http://www.palermo2018.sdewes.org/sab.php>.
12. **Scientific Advisory Board**, 13th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 30- October 4, 2018. Palermo, Italy. <http://www.palermo2018.sdewes.org/sab.php>.
13. **Scientific Committee Member**, The 4th International Conference on Environmental Pollution, Treatment and Protection (ICEPTP'19), April 7 - 9, 2019. Rome, Italy. <https://iceptp.com>.
14. Council of Agriculture and Natural Resources in IRAN.
15. **Best award paper** in the 3rd World Congress on Civil, Structural, and Environmental Engineering (CSEE'18) Budapest, Hungary – April 8 - 10, 2018.

Courses, Summer School and Mobility

1. **Ph.D. mobility:** Royal institute of technology (KTH) and the school of Electrical Engineering. Managing Renewable energies Efficiency based on environment emission reduction using machine learning methodologies of KTH under Supervision of Prof, Lina Bertling Tjernberg. 1 April- June 30, 2019/
2. **PhD Summer School:** Remote Sensing for Wind Energy. DTU Wind Energy, Risø Campus,

Roskilde. 24 – 28 June 2019.

3. **1st ODYSSEA Summer School:** Operational Oceanography for Science, Business and Society, Organised by the ODYSSEA Project. Hosted by the Democritus University of Thrace. Nea Karvali, Kavala, Greece 3-12 September 2018.
4. **Use Remote Sensing Sensing Satellite of Environment and Renewable energy** (such as: oil spills, ship detection, agriculture and urbanization, wave, solar, wind, forest and geothermal source), By Prof. Giovanni Laneve. School of Aerospace Engineering, Sapienza Università di Roma. Italy.

Skills

Python. SNAP software, ENVI software, ADIOS model, GNOME software, GIS software, Image processing, MATLAB, HOMER software, NASA and ESA (European Space Agency) satellite images analysis data and reanalysis dataset (MERRA and ECMWF).

Teaching Experience

1. Guest Lecturer of Renewable Energy: Course “source assessment”, Razi University, Kermanshah. Iran (2019)
2. Teaching Satellite SAR Images Analysis workshop, Razi University. Kermanshah. Iran (2019)
3. Reviewed and revised thesis for 5 MSc students in a broad range of subject areas including Natural Resources, Environment pollution, Forest and biomass (2019-present).
4. Teaching Assistant, “Satellite data and GIS” of Razi University, Kermanshah. Iran (2018).

Mother tongue (s)

Language (s)

Persian, Kurdish

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	A2	A1	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user European Framework of Reference for Languages- IELTS Academic