Alireza Hamoudzadeh

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🌐 https://phd.uniroma1.it/web/ALIREZA-HAMOUDZADEH_nP1999736_.aspx

Education

2022 – 2025   🔖 **Ph.D. of Infrastructure and Transportation** in Sapienza University of Rome.
Thesis title: *Earth Observation big data exploitation for water reservoirs and glaciers continuous monitoring.*

2018 – 2021   🔖 **M.Sc. of Geographic Information Systems (GIS)** in Shahid Rajaee University.
Thesis title: *User Behavior Analysis Based on Spatial Background.*

2014 – 2018   🔖 **B.Sc. Of Geomatics Engineering** in Jundi-Shapur University of Technology.

Research Publications

Journal Articles

1. A. Hamoudzadeh, R. Ravanelli, and M. Crespi, "Gedi data within google earth engine: Preliminary analysis of a resource for inland surface water monitoring," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. XLVIII-M-1-2023, pp. 131–136, 2023. 🔗 DOI: 10.5194/isprs-archives-XLVIII-M-1-2023-131-2023.

2. A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Global-scale monitoring of inland water surface levels with GEDI geo big data using google earth engine: Potentialities and issues," *Under Preparation*, 2023.

3. A. Hamoudzadeh and S. Behzadi, "Evaluation of effective factors on air pollution using optimized cellular automata. a case study of tehran," *Journal of Engineering Reasearch*, 2021. 🔗 DOI: 10.36909/jer.13749.

4. A. Hamoudzadeh and S. Behzadi, "Predicting user's next location using machine learning algorithms," *Spatial Information Reasearch*, vol. 29, no. 3, pp. 379–387, 2021. 🔗 DOI: 10.1007/s41324-020-00358-2.

Conference Proceedings

1. A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "GEDI data within google earth engine: Potentials and analysis for inland surface water monitoring," in *European Geosciences Union*, 2023. 🔗 DOI: 10.5194/egusphere-egu23-15083.

2. A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Italian lakes water level monitoring through gedi altimetric data within google earth engine: A preliminary analysis," in *XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) (Berlin 2023).*, 2023. 🔗 DOI: 10.57757/IUGG23-3886.

3. A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Global monitoring of inland water surface with GEDI geo big data using google earth engine: Preliminary analysis, potentials and issues," in *Google Summit Geo4Good*, 2022.

4. A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Inland water surface global monitoring with GEDI geo big data using google earth engine: Preliminary analysis, potentials, and issues," in *EARSeL Cyprus 2022*, 2022.

Skills

Languages	▮	English: C2, Italian: A2, Persian: Native
Coding	▮	Python, JavaScript, PHP, MATLAB, LaTeX
Databases	▮	SQL, PostgreSQL
Cloud Computing	▮	Google Earth Engine (JS API), Microsoft Planetary Computer
Web Dev	▮	HTML, CSS, JavaScript, Leaflet
Softwares	▮	ArcGIS, ENVI ,QGIS, SAGA GIS, PostGIS

Miscellaneous Experience

Awards and Achievements

2022	▮	**Grant of young researchers**, funded by Sapienza University of Rome.
	▮	**Doctoral Program fellowship**, at the Sapienza University of Rome.