

## REZA SAFARZADEH RAMHORMOZI

Spatial Data Analyst and software developer

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**URL:** [Safarzadeh-reza.github.io](https://Safarzadeh-reza.github.io)

### EDUCATION AND TRAINING

Sep 2014 – Sep 2017

#### M.Sc. in Geospatial Information Systems

**K. N. Toosi University of Technology, Tehran, Iran**

(Center of Excellence in Geospatial Information Technology (CEGIT) in Iran)

**GPA: 17.25 out of 20**

**Thesis title:** Optimization of Urban Land use allocation using meta-heuristic algorithms and spatial metrics

Sep 2009 - Sep 2013

#### B.Sc. in Geomatics Engineering

**Iran University of Science and Technology, Tehran, Iran**

**GPA: 16 out of 20**

### SKILLS AND INTERESTS

**Programming:** JavaScript, Python, Java, MATLAB, PHP, HTML, CSS

**GIS:** ArcGIS, Quantum GIS, GeoServer, ArcGIS Server, GDAL

**Libraries:** ESRI JS API, OpenLayers, ArcPy, NumPy, GeoPandas, Shapely

**Databases:** MSSQLServer, MySQL, PostgreSQL, PostGIS

**Other software:** Auto CAD, Civil 3D, ENVI, IDRISI

#### Research Interests:

- Spatial Data Mining
- Web-Based Mapping and GIS
- Spatial Decision Support Systems
- Geospatial Computing
- Spatial analysis, spatial statistics and visualization
- Spatial Data Infrastructure (SDI)
- Urban Planning

### HONORS AND DISTINCTION

A member of Iran's National Elites Foundation since January 2018.

Obtained a ranking of 30 among 2700 applicant in The National Examination of Geomatics Engineering for M. S. Entrance, Iran.

Awarded as the best publication in The 2<sup>nd</sup> National Conference on Geospatial Information Technology (NCGIT), Tehran, Iran, Jan. 2017.

Executive board member of the 1<sup>st</sup> National Conference on Geospatial Information Technology, Tehran, Iran, Jan. 2016.

Member of Geomatics academic committee of Iran University of Science and Technology (IUST), 2010-2011.

### PUBLICATIONS

**Safarzadeh R, Karimi M, and Alaei Moghadam S.** Multi Objective Optimization of Urban Land Use Allocation Using Meta-heuristic Algorithms and Spatial Metrics. Journal of Geomatics Science and Technology, JGST. 2018; 7 (3):189-212  
(<http://jgst.issqe.ir/article-1-607-en.html>)

## CONFERENCE PRESENTATION

**Safarzadeh, R** & Karimi, M. Application of Multi-Objective Particle Swarm Optimization Algorithm in Site Selection for Temporary Housing after Earthquakes in Tehran. Paper presented in Persian at the 2<sup>nd</sup> International Congress on Earth Science & Urban Development (ESUD), Tabriz, Iran (2016).

**Safarzadeh, R.**, Karimi, M., & Alaei Moghadam, S. Optimization of Urban Land Use Allocation using Non-dominated sorting Genetic Algorithm and Spatial Metrics. Paper presented in Persian at the 2<sup>nd</sup> National Conference on Geospatial Information Technology (NCGIT), Tehran, Iran (2017).

**Safarzadeh, R** & Karimi, M. Application of None Dominated Sorting Genetic Algorithm-II in Site Selection for Temporary Housing after Earthquakes in Tehran. Paper presented in Persian at the 3<sup>rd</sup> International Congress of Earth Sciences & Urban Development (ESUD), Tehran, Iran (2017).

## WORK EXPERIENCE

- GIS Manager at "Parsa.co (FANAP ICT)" Company (July, 2018 - Currently).
  - Implementation of Web based GIS application (GeoBI) for branches and ATMs network for "Pasargad Bank" in Iran
  - Spatial Analysis and site selection for establishing new branches and ATMs for "Pasargad Bank" in Iran
  - Real-time path planning for ATM cash replenishment considering the four objectives of: the number of vehicles used, shortest path with regard to distance and traffic, fuel consumption, and safeguarding that ATMs do not run out of cash.
  - Using HTML, JavaScript (Spatial libraries: ESRI JavaScript API, OpenLayers), Python (Spatial libraries: GDAL, Shapely, Pyproj, GeoPandas)

(<http://www.parsa-cit.com/en> , <http://en.fanap.ir>)

- GIS Specialist at "Avayarsanat" Company (Feb, 2017 - June, 2018).
  - Implementation and development of web based GIS applications.
  - Providing Iran's cities tourist map
  - Using ARCGIS software, QGIS, GeoServer, MapServer, PostgreSQL, ...

(<http://www.en.avayarsanat.ir>)

## LANGUAGE SKILLS

Persian (Mother Tongue)

English (IELTS Band Score 7.5)

## REFERENCES

Dr. Mohammad Karimi, Associate Professor, GIS Department, Faculty of Geomatics, K. N. Toosi University of Technology, Tehran, Iran. ([mkarimi@mail.kntu.ac.ir](mailto:mkarimi@mail.kntu.ac.ir))

Dr. Mohammad Taleai, Associate Professor, GIS Department, Faculty of Geomatics, K. N. Toosi University of Technology, Tehran, Iran. ([Taleai@mail.kntu.ac.ir](mailto:Taleai@mail.kntu.ac.ir))