

# Ladan Ebadi

Department of Surveying Engineering, Faculty of Engineering, Golestan University (GU), Golsetan, Iran

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## Personal Information

**Nationality:** Iranian  
**Place of Birth:** Mashhad, Khorasan, Iran  
**Gender:** Female  
**Marital status:** Married

## Educational Background

**2009 - 2014** Universiti Putra Malaysia (UPM), Kuala Lumpur, Malaysia  
**Ph.D.** GIS and Geomatic Engineering  
GPA: 3.938  
Dissertation: *“Improved method for noise removal from hyperspectral vegetation spectrum using second generation wavelets”*

**2007 - 2009** Universiti Putra Malaysia (UPM), Kuala Lumpur, Malaysia  
**M.Sc.**, Remote sensing and GIS  
GPA: 3.792  
Thesis: *“Optimal Daubechies Wavelet Parameters for Noise Removal of Vegetation Spectrum”*

**1999 - 2003** Iran University of Science and Technology (IUST), Arak, Iran  
**B.S.**, Civil Engineering-Surveying

## Research interest

- Remote-sensing applications in Earth sciences: monitoring, change detection, land-use/land-cover maps, hazard mapping,
- Satellite image processing
- Assessment of land subsidence using radar interferometry
- Wavelet transform for processing of remotely-sensed data: classification, compression, noise removal, fusion

## Teaching courses

- Remote sensing
- Digital image processing of remotely-sensed images
- GIS

## Publications

### Journal Papers

Ebadi, L. and H. Z. M. Shafri (2015). "A stable and accurate wavelet-based method for noise reduction from hyperspectral vegetation spectrum." Earth Science Informatics **8**(2): 411-425. (IF: 2.878)

Ebadi, L. and H. Z. M. Shafri (2014). "Compression of remote sensing data using second-generation wavelets: a review." Environmental Earth Sciences **71**(3): 1379-1387. (IF: 2.784)

Ebadi, L., H. M. Shafri, S. Mansor and R. Ashurov (2013). "A review of applying second-generation wavelets for noise removal from remote sensing data." Environmental Earth Sciences **70**(6): 2679-2690. (IF: 2.784)

### Conference Papers

- Ebadi, L. (2022). Investigation of Gorgan City Subsidence using Radar Interferometry Method and Sentinel 1 Satellite Images. 3rd National Conference of Iranian Geological Remote Sensing Society (IGRSS). Shahid Chamran University of Ahvaz, Iran.
- Ebadi, L. and F. Shabanloue. (2021). Water Quality Monitoring of Gorgan Bay using Sentinel 2 Satellite Time Series Images. The 2nd International Conference of Giscience: Basis and Trans/Interdisciplinary Applications. Ferdowsi University of Mashhad, Iran.
- Ebadi, L. and H. Z. M. Shafri (2010). Optimal Daubechies Wavelet Parameters for Noise Removal of Red-edge Region in Vegetation Spectrum, MRSSIC 2010, Kuala Lumpur.
- Ebadi, L. (2014). Mapping of urban area by classification of hyperspectral remote sensing data, First national symposium of surveying in structural engineering, Mashhad

## Teaching Experiences

### Assistant Professor at:

- Ferdowsi University of Mashhad, 2014-2016
  - M.Sc. Courses: *Image processing for remote-sensing images, Space photogrammetry, GPS, Remote sensing applications*
  - B.S. Courses: *Surveying, Introduction to GIS, Photogrammetry*
- Islamic Azad University of Mashhad, 2014-2015
  - B.S. Courses: *Satellite image interpretation, Surveying*
- Khavaran Institute of Higher Education, 2014-2016
  - M.Sc. Courses: *Digital Image processing for remote-sensing images, Space photogrammetry, Advanced GIS, Remote sensing data management*
- Eshragh Institute of Higher Education, 2015-2016
  - B.S. Courses: *Satellite geodesy, GIS applications, Digital image processing, Advanced surveying instruments, Remote sensing, Hydrography, Cadastre, Advanced software, Photogrammetry*
- Surveying faculty, National Geography Organization of Iran, 2016-2017
  - B.C. Courses: *GIS, Remote sensing, Digital image processing*
- Islamic Azad University, South Tehran Branch, 2016-2017
  - M.Sc. Courses: *Physics in remote sensing, Digital Image processing for remote-sensing images, Research methods, Remote sensing data management, Digital Terrain Model*
  - B.C. Courses: *Remote sensing, Digital image processing, Photogrammetry*
- Golestan University, 2018-now
  - B.C. Courses: *Remote sensing, Digital image processing, Digital terrain model, technical English, Advanced softwares*

## Work Experiences

- **Assistant Professor**, Golestan University, Department of surveying engineering, 2018-now
- **University faculty member**, Eshragh Institute of Higher Education, 2015-2016
- **Consulting Engineer**, Kavosh Pay Mashhad Consulting Engineers, 2003-2007
- **Consulting Engineer**, Naghsh Aray Shargh Consulting Engineers, 2007- now
- **Member of the board of directors**, Civil Engineering Organization, Khorasan Razavi, 2015-2018

## Membership

- Civil Engineering Organization, Khorasan Razavi, (2006-now)

## Skills in Computer and Programming

- **Programming Skills:**  
Proficient in: MATLAB
- **Computer Software:**
  - 1- **Surveying Software:** Civil 3D, Land
  - 2- **Remote Sensing Software:** ENVI, ERDAS, PCI Geomatica, ER Mapper
  - 3- **GIS Software:** ArcGIS
  - 4- **General Software:** AUTO CAD, MATLAB, and Microsoft office software

## Language Proficiency

- **Persian** Native
- **English** Fluent

## Personal Interests

- Tennis
- Playing Setar
- Hiking
- Camping
- Swimming
- Music
- Watching movies

## Referees

- **Assoc. Prof. Dr. Helmi Zuhaidi Mohd Shafri**, supervisor at my Master and Ph.D. thesis, Department of Civil Engineering, Universiti Putra Malaysia (UPM), 43400 UPM Serdang, Selangor, Malaysia  
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- **Professor Dr. Shattri Mansor**, co-supervisor at Ph.D. thesis, Department of Civil Engineering, Universiti Putra Malaysia (UPM), 43400 UPM Serdang, Selangor, Malaysia  
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- **Profesor Dr. Mohammadreza Mobasheri**, co-worker at Khavaran Institute of Higher Education, Khajeh Nassir-Al-Deen Toosi University of Technology (KNTU), Civil engineering Faculty, Surveying Department  
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