

## CURRICULUM VITAE

**Name: Reza Hassanzadeh**

**Major:** Spatial planning and Geographical Information System

**Position:** Assistant professor in Kerman Graduate University of Advanced Technology, Iran.

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### Academic qualifications

- **1999 – 2003, B.Sc in Geology**, Sistan and Baluchestan University, Zahedan, Iran.
- **2003 – 2006, M.Sc in Environmental Geology**, Shahid Bahonar University of Kerman, Iran.
- **2010 – 2015, PhD in Spatial Planning and GIS**, School of Geography, Planning and Environmental Policy and GIS, University College Dublin

### Areas of Research Interest:

- Geographical Information System (GIS) & Remote Sensing (RS) Technique and Geological Hazard,
- Quantitative and Qualitative analysis in GIS and spatial modelling,
- Risk & Vulnerability Assessment,
- Crowdsourcing and Spatial Data Infrastructure,
- Spatial Modelling and GIS in disaster response.

### Achievements:

- Thesis awarded **first rank** in Iran in May 2007; it was about **Investigation on Urban Geological Conditions and Hazards of Kerman City, Using GIS Techniques**.
- Achieve **First Class Honor student position** among graduation of M.Sc Environmental Geology Shahid Bahonar University of Kerman in 2006.

### Publications:

#### Book:

- **Earthquake Hazard Management**, by: A. Abbasnejad & R. Hassanzadeh Published by Kerman Disaster Management Center, 2008, Pp288.

#### Book chapter

- Hassanzadeh, R. and Z. Nedovic-Budic (2013). **Identification of Earthquake Disaster Hot Spots with Crowd Sourced Data**. Intelligent Systems for Crisis Management. S. Zlatanova, R. Peters, A. Dilo and H. Scholten, Springer Berlin Heidelberg: 97-119.

### Journal Papers:

1. Hassanzadeh, R., Z. Nedović- Budić, et al. (2016). " **Where to Go First: Identification and Prioritization of Damaged Areas for Urban Search and Rescue (USAR) Operations using AHP and GIS-Based Spatial Multi Criteria Decision Making Analysis.**" The international journal of Geomatics, Natural Hazards and Risk, pp. 1-30.
2. Hassanzadeh, R., Z. Nedović- Budić, et al. (2014). " **Assessment of the Contribution of Crowd Sourced Data to Post-earthquake Building Damage Detection.**" International Journal of Information Systems for Crisis Response and Management (IJISCRAM), 6(1), pp. 1-37.
3. Hassanzadeh, R., Z. Nedović- Budić, et al. (2013). " **Interactive Approach for GIS-based Earthquake Scenario Development and Resource Estimation (Karmania Hazard Model).**" The international journal of Computers & Geosciences 51: 324-338.

4. Reza Hassanzadeh, A. Abbasnejad, A. Alavi, **Seismic Assessment of Kerman, with Specific Regard to Preliminary Semi Detailed Micro zoning Using GIS** , Scientific Quarterly Journal (Geosciences), Geological Survey of Iran, 2011.
5. Reza Hassanzadeh, A, Abbasnejad, M. A. Hamzeh, **Assessment of groundwater pollution in Kerman urban areas**, Journal of Environmental Science, Shahid Behshti University of Tehran, 2011.
6. M. A. Hamzeh, M. Mirzaie, R. Hassanzadeh, **Distribution of major, minor and trace elements in rocks, sediments and soils of Kerman urban areas using GIS-based approach**, Journal of Environmental Studies, University of Tehran, 2008.

#### Symposium Articles:

1. **Hassanzadeh, R., Honarmand, M., Evaluation of land surface changes of mine pit and mine wastes in Sarcheshmeh Copper Mine in period of eleven years of mining activities using ASTER and SRTM DEMs**, National Open Pit Min Conference, Shahdi Bahoar University of Kerman, 2017,
2. **Hassanzadeh, R., How Much Data is Needed to Make a Logical decision: Crowdsourcing and Disaster Response, United Nations / India joint Workshop on “The Use of Earth Observation Data in Disaster Management and Risk Reduction: Sharing the Asian Experience”**, Hyderabad, India, 2016.
3. Hassanzadeh, R. and Z. Nedovic-Budic, **Assessment of the Contribution of Crowd Sourced Data to Post-earthquake Building Damage Detection**, Joint AESOP / ACSP Congress, Dublin, Ireland, 2013.
4. Hassanzadeh, Reza, Nedovic-Budic, Zorica, **Dynamic Spatial Data Infrastructure for Earthquake Disaster Management**, Association of American Geographers (AAG), Annual Meeting, Seattle, WA, USA, 2011.
5. A, Abbasnejad, Reza Hassanzadeh, **Determination of the suitable geophysical methods for exploring hidden natural caves in Kerman plain**, proceeding of 24<sup>th</sup> Symposium ministry of Industries and Mines Geological Survey of Iran, 2007.
6. S. Khajehpour, A, Abbasnejad, Reza Hassanzadeh, **investigation of groundwater pollution of Rafsanjan plain by Cr & Ni**, Proceedings of 2<sup>nd</sup> Symposium of Environmental Engineering, Tehran university, 2008.
7. Reza Hassanzadeh, A, Abbasnejad, **Assessment of seismicity hazard of Kerman city by Probabilistic and Deterministic methods**, Proceedings of 10<sup>th</sup> Symposium of Geological Society of Iran, Tarbeiat Modares University, 2006.
8. Reza Hassanzadeh, A, Abbasnejad, **Groundwater pollution in The Kerman City bylead and cadmium**, Proceeding of 1<sup>st</sup> Symposium of Environmental Engineering, Tehran university, 2006.
9. A, Abbasnejad, Reza Hassanzadeh, **semi detailed earthquake micro zoning and evaluation of earthquake effects on the Kerman city**, proceeding of 10<sup>th</sup> Symposium of Geological Society of Iran, Tarbeiat Modares University, 2006.
10. Reza Hassanzadeh, A, Abbasnejad, S. Khajehpour, **The Impact of Urbanization on Groundwater Pollution in Kerman City** , Proceeding of 11<sup>th</sup> Symposium of Geological Society of Iran, Ferdosi university of Mashhad, 2006.
11. S. Khajehpour, A, Abbasnejad, Reza Hassanzadeh, **Assessment of groundwater pollution in south of Rafsanjan plain by As & Hg**, Proceeding of 11<sup>th</sup> Symposium of Geological Society of Iran, Ferdosi university of Mashhad, 2006.
12. Reza Hassanzadeh, A, Abbasnejad, **Assessment land subsidence hazard in Kerman city with GIS**, abstract proceeding of 25<sup>th</sup> Symposium ministry of Industries and Mines Geological Survey of Iran, 2007.

### **Research:**

-Using **Remote Sensing, Geographical Information System, and Crowd Sourcing to Assess Flood Risk in Urban Areas: Case Study of Bardsir City**, Kerman Province, KGUT, 2017-2018.

-**The application of Geographic Information System (GIS) and multi-criteria decision-making methods in determination site effect and strong ground acceleration**, KGUT, 2016-2017.

-My **Ph.D. thesis topic is Dynamic Spatial Data Infrastructure and Earthquake Disaster Management**, University College Dublin, 2010.

-My **M.Sc. thesis topic was about Investigation on Urban Geological Conditions and Hazards of Kerman City, Using GIS Techniques**, Shahdi Bahonar University of Kerman, Iran, 2006.

-Cooperation with KDMC and as an assistant for project of preparing **earthquake scenario of Kerman City by using of GIS** in 2008.

-Cooperation with KDMC and as an assistant in the project for **developing the culture of prevention and preparedness for natural disaster in Kindergartens**, project of **analyzing educational needs and informing the public of risk management**, and project of **developing culture prevention and preparedness of natural disaster in Schools** in 2007.

-Assistant in project of **Land use of Kerman Province** in 2007.

-Assistant in project of investigation of issues about **Flooding** in Jiroft City by GIS & RS in 2006.

-Assistant in project of investigation of issues about **Geotechnical condition** of Kerman City in 2005.

### **Job Career and teaching:**

- As a tutor in University College Dublin for 3 Term, in **Geographical Information System (GIS)**, 2011 and 2014.

- As a tutor in University College Dublin for 2 Term, in **People, Places, Regions**, 2012 and 2013.

- As a tutor in University College Dublin for 2 Term, in **Spatial Analysis**, 2015.

- As a tutor in University College Dublin for 2 Term, in **Environmental Change and Policy**, 2012 and 2013.

- As a tutor in University College Dublin for 2 Term, in **GIS for Architects**, 2012 and 2015.

- As a tutor in University College Dublin for 2 Term, in **Research Methods in Geography**, 2012 and 2013.

- **GIS Expert** in Kerman Disaster Management Center (KDMC), 2007 - 2009.

-**Teaching Earthquake Scenario in Urban area using GIS Techniques**, the 2<sup>nd</sup> National Conference on Injured Prevention & Safety Promotion in Disaster, Kerman, 2009.

-As a **Teacher** in Payamenoor University of Kerman for 1 term for teaching **Geology Subject**, from 2006-2007.

-As a **Teacher** in Zarand Azad University for teaching the subject of **Photo geology** for 3 Terms, from 2005-2006.

-As an **assistant** in Shahid Bahonar University of Kerman for 1 Term, in **Photo geology Laboratory**.

-**Teaching GIS & Global Positioning System (GPS)** to Staff of Telecommunication Company of Kerman City for 40 hours.

-**Teaching GIS** to Staff of Engineering organization of Rafsanjan City for 30 hours.

-**Teaching GIS & GPS** in Pishgam Samane Shargh Consulting Company for 60 hours.

-**Teaching Remote Sensing (RS)** in Pishgam Samane Shargh Consulting Company for 60 hours.

-**Teaching GIS** in Kerman Disaster Management Center (KDMC) for 30 hours.

-**Teaching GIS & GPS** in Hirs Company for 30 hours.

**Certificates:**

- Certificate of **Spatial Data Infrastructure and Volunteered Geographic Information**, Summer School, Cagliari University, Italy, 2010.
- Certificate of **Environmental Spatial Data Infrastructure**, Summer School, Salzburg University, Austria, 2010.
- Certificate of **Lifeline Earthquake Engineering** and Recent Topics, Tehran University, 2008.
- Certificate of **Mainstreaming Gender in Disaster Risk Management**, UNDP, Tehran, 2008.
- Certificate of International Conference of **disaster management**, Tehran University, 2008.
- Certificate of **Disaster Risk Management** for 36 hours, Kerman Disaster Management Center (KDMC), 2008.
- Certificate of **Gender-Based Violence in Disaster**, UNOCHA, Tehran, 2007.
- Certificate of **Use of GIS in Detail, Semi detail and Regional Studies**, 1<sup>st</sup> Symposium Urban GIS, Shomal University, 2007.
- Certificate of **Use of GIS in Disaster Management and Loss lifeline**, 1<sup>st</sup> Symposium Urban GIS, Shomal University, 2007.
- Certificate of **Retrofitting and Disaster Management**, Shakhes Sazan Consulting Company, Esfahan, 2006.
- Certificate of **Urban Earthquake Risk Management**, UNDP, Kerman, 2006.
- Certificate of **Arc GIS 9.1 Software**, Panjereh Ru be Elm Company, 2006.
- Certificate of **Mining and Environmental Engineering**, Shahid Bahonar University of Kerman, 2004.

**ENGLISH PROFICIENCY: I received grade 7 in IELTS Exam in 2009.**

**Software:**

Windows XP, Arc GIS 10.3, ENVI 5.3, , SPSS 12, Auto CAD2007, ...

**References and letters of recommendation would be presented upon request**

Yours sincerely,  
Reza Hassanzadeh