

# *Curriculum Vitae*

*Hamidreza Keshtkar*

Email: [Hkeshtkar@ut.ac.ir](mailto:Hkeshtkar@ut.ac.ir)

## ***Education***

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September 2011- April 2016

Friedrich-Schiller-University Jena.

- PhD, Landscape Ecology  
Thesis: Spatial Modeling of Plant Distributions: Coupling Remote Sensing with GIS-based Models

September 2005- February 2008

University of Tehran.

- Master of Science, Natural Resources  
Thesis: Investigating the Capability of IRS-1D Satellite Data for LULC Mapping

September 2000- January 2005

Gorgan University of Agricultural Sciences and Natural Resources.

- Bachelor of Science, Natural Resources

## ***Papers***

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- 1- Alilou, H., A. Moghadam Nia., **H. Keshtkar**, D. Han., M. Bray. 2018. A cost-effective and efficient framework to determine water quality monitoring network locations. *Science of the Total Environment*. 624: 283-293.
- 2- Rimal, B., L. Zhang., **H. Keshtkar**, N. Wang., Y. Lin. 2017. Monitoring and Modeling of Spatiotemporal Urban Expansion and Land-Use/Land-Cover Change Using Integrated Markov Chain Cellular Automata Model. *International Journal of Geo-Information* 6(9): 288.
- 3- **Keshtkar, H.**, W. Voigt., and E. Alizadeh .2017. Land-cover classification and analysis of change using machine-learning classifiers and multi-temporal remote sensing imagery. *Journal of Geosciences*. 10: 154.
- 4- Heydari, E., S. Nasabpoor., **H. Keshtkar**. 2017. Data mining of drought probability in Iran. *Desert Management*. 5(9): 1-14.
- 5- Arzani, H., H. Mohammadi., **H. Keshtkar**. 2017. Estimation of Plant Production for Sustainable Use of Arid and Semi-Arid Rangeland Ecosystems Using Satellite Data. *Journal of Sustainable Development*. 10(6): 11-17.
- 6- **Keshtkar, H.**, and W. Voigt. 2016. Potential Impacts of Climate and Land Use Changes on Plant Distributions: Coupling Multi-Temporal Satellite Imagery with GIS-based Cellular Automata Model.

Ecological Modeling. 32: 145-155.

- 7- Afzali, A., **H. Keshtkar**, S. Pakzad., N. Moazami. 2016. Spatio-Temporal Analysis of Drought Severity Using Drought Indices and Deterministic and Geostatistical Methods (Case Study: Zayandehroud River Basin). *Desert Journal*. 21(2): 165-172.
- 8- **Keshtkar, H.**, W. Voigt. 2016. A spatiotemporal analysis of landscape change using an integrated Markov chain and cellular automata models. *Model. Earth Syst. Environ*. 2: 1-13.
- 9- **Keshtkar, H.**, H. Azarnivand, H. Arzani., S.K. Alavipanah. 2013. Land covers classification using LISS-III data and a decision tree classifier. *Desert Journal*. 17 (2): 137-146.
- 10- **Keshtkar, H.**, H. Yeganeh., A. Jabarzare. 2011. Floristic studies and life forms of Ghorkhood protected area. *Iranian Journal of Biology*. 24(3): 421-431.
- 11- **Keshtkar, H.**, H. Azarnivand., H. Atashi. 2009. Effect of chilling and GA3 on seed germination of *Ferula asafoetida* and *Prangos ferulacea*. *Seed Sci. & Technol*. 37(2): 464-468.
- 12- Moshtaghyan, M.B., **H. Keshtkar**, M. Esmaili Sharif., S.M. Razavi. 2009. Study of Planting Methods Effect on *Astragalus cyclophyllon* Establishment. *Range and Desert Journal*. 16(1): 79-84.
- 13- Keshtkar, A.R., **H. Keshtkar**. 2009. A land covers classification system for environment assessment in semi-arid regions of Iran. *Desert Journal*. 13 (2) 193-202.
- 14- **Keshtkar, H.**, H. Azarnivand., E. Shahriari. 2009. The Effect of Different Methods on Break Seeds Dormancy and Germination of *Ferula gummosa* and *Ferula assafoetida*. *Journal of Rangeland*. 3(2): 281-290.
- 15- Keshtkar. A.R., **H. Keshtkar**, S.M. Razavi., S. dalfardi. 2008. Methods to break seed dormancy of *Astragalus cyclophyllon*. *Journal of Biotechnology*. 7(21): 3874-3877.
- 16- **Keshtkar, H.**, H. Azarnivand., V. Etemad., S. Moosavi. 2008. Seed dormancy-breaking and germination requirements of *Ferula ovina* and *Ferula gummosa*. *Desert Journal*. 13(1): 45-51.

## **Conferences**

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- 1- Alilou, H., A. Mogaddam Nia., **H. Keshtkar**, M. Mohseni., B. Bakhtiare. 2017. Design of water quality sampling locations for data scarce region. 8th International Conference on Sustainable Agriculture for Food, Energy, Industry & Environment, Tehran, Iran.
- 2- Arzani. H., H. Mohammadi., **H. Keshtkar**. 2017. Satellite Images for Production estimation in Arid and Semi-arid Rangelands (Case Study: Northern Fars Province, Iran). International Conference on Sustainable Development, Ottawa, Canada. P: 19.
- 3- Arzani, H. F. Alishah., M. Ghorbani., **H. Keshtkar**. 2009. Investigation of diversity and distribution of plant species in Sorkh Abad watershed. Fourth National Conference on Rangeland of Iran. P:244.
- 4- Azarnivand, H., **H. Keshtkar**, H. Arzani., S.K. Alavipanah. 2008. A Nonparametric Classification Algorithm of IRS-1D Imagery For Land Cover Mapping. 4th EARSeL Workshop on "Remote sensing For Developing Countries" inconjunction with GISDECO 8. Istanbul, Turkey. P: 17.

- 5- Nematolahi, M.J., E. Janfaza., **H. Keshtkar**. 2008. Assessment of ASTER data for severance geomorphology types in Damghan playa. The First Regional Conference of Natural Resources and Environment. Arsenjan, Iran. P: 16-17.
- 6- Salajegheh, A., **H. Keshtkar**., S. Dalfardi., A.R. Keshtkar. 2008. Geology and its effects on water resources in Arid Rangelands of Iran. XXI International Grassland Congress and VIII International Rangeland Congress. China. P: 933.
- 7- **Keshtkar, H.**, F. Mallati. 2008. The effect of chemical scarification and washing on the germination of *Ferula Ovina*. XXI International Grassland Congress and VIII International Rangeland Congress, China. P: 590.
- 8- **Keshtkar, H.**, A. Salajegheh., A.R. Keshtkar. 2007. Investigation of Land Degradation and Desertification in Arid Regions of Iran, 5th International Congress of the European Society for Soil Conservation (ESSC 2007), Italy, Palermo. P: 269.
- 9- Salajegheh, A., A.R. Keshtkar & **H. Keshtkar**, 2007. Water Resources Management in Arid Regions of Iran, International Conference on Environment: Survival and Sustainability (ESS 2007), North Cyprus, Nicosia. P: 630.
- 10- **Keshtkar, H.**, M. Naghilo., M.J. Nematolahi. 2007. Investigation of Sediment Yield Rate in Pelasjan Catchment. First Student Congress on Rangeland, Watershed and Desert. P: 45.
- 11- Keshtkar A.R., A. Salajegheh & **H. Keshtkar**, 2006. Study of Ecological Degradation in Arid Regions of Iran, International Symposium on Drylands Ecology and Human Security (ISDEHS 2006), Unaited Arabia Emirates, Dubai, Sharjah. P:86-87.
- 12- Salajegheh, A., **H. Keshtkar**., A. Malekian & A.R. Keshtkar. 2006. Investigation of Wind Erosion in Khousf Plain Using IRIFR Method, The 14th Conference of International Soil Conservation Organization in Semi-Arid Environments (ISCO 2006), Marakech, Morocco. P: 268-269.
- 13- Nghiloo, M., **H. Keshtkar**., S. Dalfardi. 2005. Investigating the status of Halcyon lands in the north of Lut plain (Case Study: Khosf Plain of Birjand). National Conference on future of Iranian forests. P: 67.

## ***Research & Work Experience***

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### **Postdoctoral Fellow**

Department of Remote Sensing & GIS, University of Tehran, Iran. October 2017- Present.

### **Teaching**

1- University of Tehran, Iran (2016-present)

- Principles of remote sensing

- Remote sensing in urban and rural studies

2- Shahid Bahonar University of Kerman, Kerman, Iran (2009-2011).

- Range Management
- Principles of Ecology
- Application of remote sensing in natural resources

**Hamidreza Keshtkar**

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