

Curriculum Vitae (CV)

Full name: Reza Jafari

Position: Associate professor

Speciality: Remote Sensing

Discipline: Range and Watershed Management

Department: Natural Resources

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Qualifications

Diploma: Natural Sciences Diploma, 1995, Tehran, Iran

B.Sc: Rangeland and Watershed Management, 1999, Tehran University, Tehran, Iran

M.Sc: Combating Desertification, Tehran University, 2001, Tehran, Iran

Ph.D: Remote Sensing, "Arid Land Condition Assessment and Monitoring Using Multispectral and Hyperspectral Imagery", the University of Adelaide, 2004-2007, Adelaide, Australia

Awards

- First rank in M.Sc Entrance Examination, 1999
- First rank in M.Sc Course Examination, 1999-2001

- First rank in Ph.D Entrance Examination, 2001
- Ph.D postgraduate excellent award 2006, South Australia, Australia

Research Interests

- Application of remote sensing and spatial data to environmental, agricultural and urban management
- Hyperspectral remote sensing
- Imaging Spectrometry
- Land use/cover mapping and monitoring using remote Sensing and Geographic Information Systems (GIS)
- Mapping, assessment and monitoring land degradation
- Geomorphology

Publications

- Jafari, R., Hasheminasab, S., 2017. Assessing the effects of dam building on land degradation in central Iran with Landsat LST and LULC time series. *Environ Monit Assess*, DOI: 10.1007/s10661-017-5792-y.
- Zormand, S., Jafari, R., Soltani, S., 2017. Assessment of PDI, MPDI and TVDI drought indices derived from MODIS Aqua/Terra Level 1B data in natural lands. *Journal: Natural Hazards*. DOI: 10.1007/s11069-016-2715.
- Jafari, R., Bashari, H., Tarkesh, M., 2017. Discriminating and monitoring rangeland condition classes with MODIS NDVI and EVI indices in Iranian arid and semi-arid lands. *ARID LAND RESEARCH AND MANAGEMENT* 2017, 31 (1). 94–110.
- Boali1, A., Bashari, H., Jafari, R., Soleimani, M., 2017. Determining the desertification potential and its influencing factors focusing on soil quality

- indices (case study Segzi plain- Isfaha). *Water and Soil Sci (Sci. & Technol. Agric. & Natur. Resour.)* Vol. 21, No. 2, Summer 2017, 15-28.
- Jafari, F., Jafari, R., Bashari, H., 2017, Assessing the performance of remotely-sensed landscape function indices in semi-arid rangelands of Iran. *The Rangeland Journal (Australia)*, 2017, 39, 253–262.
 - Yaghmaei, L., Soltani, S., Jafari, R., Bashari, H., Jahanbazi, H., 2017, An investigation on impact of drought on rangeland and forest vegetation changes in Chaharmahal & Bakhtiari province using MODIS satellite data. *Iranian Journal of Forest and Range Protection Research* Vol. 15 No. (1), 2017, 91-108.
 - Boali, H, Jafari, R., Bashari, H., 2017. Wind erosion estimation and assessment using Bayesian belief networks in eastern Isfahan township. *Journal of desert ecosystem engineering*, 14(6), 45-58.
 - Rahimian, M., Shayannejad, M., Slamian, S., Gheisari, M., Jafari, R., 2017. SEBAL application to estimate water use efficiency of Pistachio trees in saline condition(Case studyBahadoran PlainIran). *JOURNAL OF BIODIVERSITY AND ENVIRONMENTAL SCIENCES* (Inpress).
 - Hadian, F., Jafari, R., Bashari, H., 2016. Monitoring land use and land cover changes in Semrom region based on spatial development and population variation using satellite data. *Journal of desert and rangeland research*, 2016, 22 (4), 727-743.
 - Jafari, R., Bakhshandehmehr, L., 2016. Quantitative mapping and assessment of environmentally sensitive areas to desertification in central Iran. *Land degradation and development*, 27, 108-119.
 - Jafari, R., Malekian, M., 2015. Comparison and evaluation of dust detection algorithms using MODIS Aqua/Terra Level 1B data and

- MODIS/OMI dust products in the Middle East. *International Journal of Remote Sensing*, 2015 Vol. 36, No. 2, 597–617.
- Mahmoudi, F., Jafari, R., Karimzadeh, H., Ramezani, N., 2015. Spatial Distribution Analysis of Soil Properties in Varzaneh Region of Isfahan Using Image Processing Techniques. *Journal of Water and Soil* Vol. 29, No. 4, Sept.-Oct. 2015, 1004-1017.
 - Jafari1, F., Jafari, R., Bashari, H., 2015. Assesment rangeland functionality field- based and remotely- sensed approaches (Case study: Steppe and Semi -Steppe rangeland Isfahan South and Western). *Iranian Journal of Forest and Range Protection Research*, 13(1), 57-73.
 - Moshtagh, N., Jafari, R., Soltani, S., Ramezani, N., 2015. Application of energy balance model and Landsat TM sensor data for evapotranspiration estimation. " *Journal of Science and Technology of Agriculture and Natural Resources, Water and Soil Science*, 19(73), 207-217.
 - Jafari1, F., Bashari, R., Jafari, R., 2015. Evaluating structural and functional characteristics of various ecological patches in different range conditions, (Case study: Semi -Steppe rangeland Aghche-Isfahan). *Applied ecology*, 3(10), 13.24.
 - Hamdamju, M., Rashki, A.R., Jafari, R., 2015. Assessment of Chemical Characteristics of Dust in Shahdad Region of Iran Using XRF Analysis. *Journal of Geography and natural crisis*, 14, 1-20.
 - Fathi, M., Jafari, R., Soltani, S., 2015. Performance comparison of MEDALUD, MICD and FAO-UNEP desertification mapping models in the desertification hotspot of Jarghoyeh region, Isfahan province. 19(71), 299-309.
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- Abbasi, N., Soltani, S., Jafari, R., 2015. Rangeland and forest fire risk mapping using KBDI drought index (case study: Isfahan Province). *Applied ecology*, 3 (10), 13-24.
- Shamshiri1, S., Jafari, R., Soltani, S., Ramezani, N., 2014. Dust detection and mapping in Kermanshah Province using MODIS satellite imagery. *Applied ecology*, 3(8), 29-41.
- Jafari, R., Lewis, M.M., 2012. Arid land characterization with EO-1 Hyperion hyperspectral data. *International Journal of Applied Earth Observation and Geoinformation* 19(1), 298-307.
- Jafari, R., Lewis, M.M. and Ostendorf, B., 2008. An image-based diversity index for assessing land degradation in an arid environment in South Australia. *Journal of Arid Environments* 72(7), 1282-1293.
- Jafari, R., Lewis, M.M. and Ostendorf, B., 2007. Evaluation of vegetation indices for assessing vegetation cover in southern arid lands in South Australia. *The Rangeland Journal* 29(1), 39-49.
- Jebali, J., Jafari, R, Khajeddin, S.J., Pakzad, H. R.,2014, “Detection of aeolian sand sediments using a new satellite ratioing index” *Iranian Journal of Soil and Water Research*, 42(2), 189-197.
- Jebali, J., Jafari, R, Khajeddin, S.J., “Performance comparison of aerial photographs and IRS-P6 and ETM+ panchromatic bands in determining sand dune morphology” *Desert Ecosystems Engineering Journal*, 2(3), 45-54.
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- Jebali A., Jafari R., Khajedin S., 2013."Monitoring sand dunes changes of Gavkhouni international wetland using satellite imagery", *Iranian Remote Sensing and GIS Journal*, 5(3), 33-48.
- Mahmoodi F., Jafari R., Karimzadeh H., Ramezani N., "Soil salinity mapping using satellite TM and field data in southeastern Isfahan", *Journal of Science and Technology of Agriculture and Natural Resources, Water and Soil Science*, 19(71), 31-44.
- Mehrabi S., Soltani Kopaei S., Jafari R., 2014."Analyzing the relationship between dust storm occurrence and climatic parameters", *Journal of Science and Technology of Agriculture and Natural Resources, Water and Soil Science*, 19(71), 69-80.
- Ramezani N., Jafari R., 2014. "Land use/cover change detection in 2025 with CA-Markov chain model (case study: Esfarayen)", *Geographical Research*, 29(4), 83-96.
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- Jafari, R., Ramezani, N., 2013. Application of spectral diversity index for rangeland degradation assessment in North Khorasan province. Iranian Rangeland Journal 6(4), 304-311.
- Khanamani, A., and Karimzadeh, H. R., Jafari, R., 2013. Evaluation of Desertification Intensity Using Soil Indices, The Journal of Science and Technology of Agriculture and Natural Resources, Water and Soil Science 17(63), 49-59.
- Andalibi, L., Jafari, R., Bashari, H., 2012. Analysing the functionality of rangeland landscapes using TM sensor data (Case study: Soh region, Isfahan, Iran). Iranian Rangeland Journal 6(2), 130-141.
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- Ramezani, N. and Jafari, R., 2011. Land use change detection in Esfarayen region, northern Khorasan, in past four decades. Iranian Journal of GIS and Remote Sensing 3(2), 19-38.
- Aliakbari, A., Jafari, R., Vahabi, M.R. and Saadatfar, A., 2011. Determining the potential habitat of Astragalus verus with the integration of GIS and remote sensing. Journal of Applied GIS and Remote Sensing in Natural Resources, No.1, 15-27.
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 - Ramezani, N. and Jafari, R., 2012. Analyzing the vegetation condition of the Sarigol protected area over four decades and predicting its changes in 2025. Iranian Pajouhesh and Sazandeghi Journal (inpress).
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 - Jafari, R., Malekian, M. 2011. A review of remote sensing technology in support of the Kyoto Protocol. Journal of Development and Climate Change, No.2, 28-37.

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- Hadian, Jafari, R., Bashari, H. and Soltani, S. 2013. Monitoring Land use/cover changes of Choghakhoor wetland protected area using Landsat satellite images. The 19th National Conference on Geomatics, May 2013, National Cartographic Center, Tehran, Iran.
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- Ramezani, N. and Jafari, R. 2012. Application of remote sensing and GIS for developing tourism and ecotourism industry. The National Conference of Strategies for promoting National Production and supporting Iranian Labor and Capital. November 2012, Northern Khorasan, Iran.
 - Jafari, R. 2012. Dust crisis (techniques, consequences, solutions). The 5th National Conference on Range and Range management, May 15-17 2012, Lorestan, Broujerd, Azad University.
 - Andalibi, L., Jafari, R. and Bashari, H. 2012. Mapping and monitoring the semi-steppe vegetation cover of Iran's rangelands using satellite imagery. 19th National Conference on Geomatics, May 2012, National Cartographic Center, Tehran, Iran.
 - Ramezani, N. and Jafari, R. 2012. Water harvesting techniques in arid and semi-arid lands. 9th International Congress on Civil Engineering, May 8-10, Isfahan University of Technology, Isfahan, Iran.
 - Ramezani, N. and Jafari, R. 2011. Fish farms new chances for desert regions. The 1st National Conference on Desert (Sciences, Technologies and Sustainable Development), 17 June, 2012, College of Natural Resources, Karaj, Iran.
 - Andalibi, L., Jafari, R. and Bashari, H. 2011. Analysing rangeland landscape function using remote sensing and field methods. The 7th National Conference on Watershed Management, Apr. 26-27 2011, Isfahan, Isfahan University of Technology, Department of Natural Resources.
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- Management, Apr. 26-27 2011, Isfahan, Isfahan University of Technology, Department of Natural Recourses.
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 - Ramezani, N. and Jafari, R. 2011. Land use change detection in last four decades using remote sensing. National Conference on Geomatics, May 2011, National Cartographic Center, Tehran, Iran.
 - Jabbari, S., Khajeddin, S. J., Soltani, S. and Jafari, R. 2011. Determining rangeland vegetation cover using GIS and remote sensing. National Conference on Geomatics, May 2011, National Cartographic Center, Tehran, Iran.
 - Moshtagh, N., Jafari, R. and Soltani, S. 2011. Analysing changes in land use and land surface temperature using remote sensing data. The 7th National Conference on Watershed Management, Apr. 26-27 2011, Isfahan, Isfahan University of Technology, Department of Natural Recourses.
 - Ramezani, N. and Jafari, R. 2011. Land cover change detection caused by Esfarayen dam in North Khorasan province using remote sensing. The 7th National Conference on Watershed Management, Apr. 26-27 2011, Isfahan, Isfahan University of Technology, Department of Natural Recourses.
 - Khanamani, A., Jafari, R., and Karimzadeh, H. R. 2011. Use of GIS and MPSIAC model to estimate water erosion in eastern Isfahan. The 7th National Conference on Watershed Management, Apr. 26-27 2011, Isfahan, Isfahan University of Technology, Department of Natural Recourses.

- Shamshiri, S. and Jafari, R. 2012. Determination of Kemanshah province's dust sources using satellite image time series. The 1th International Conference on Dust Haze and Combating It's Adverse Effects, 17-18 Feb. 2012. Khozestan.
- Mehrabi, S. and Jafari, R. 2012. A review of dust mapping techniques based on remote sensing imagery. The 1th International Conference on Dust Haze and Combating It's Adverse Effects, 17-18 Feb. 2012. Khozestan.
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- Jafari, R., 2010. Impact of climate change on Gavkhouni playa. Proceedings of 1st Internatioanl Conference on Climate Change and dendrochronology in Caspian Ecosystems, 12-14 May 2010, North of Iran, Sari, Mazandaran University.
- Jafari, R., 2010. Impacts of climate change and global warming on coral reefs: modeling the effects of temperature. Proceedings of 1st Internatioanl Conference on Climate Change and dendrochronology in Caspian Ecosystems, 12-14 May 2010, North of Iran, Sari, Mazandaran University.
- Jafari, R., 2010. River mapping at meter and watershed scale using reflectance data. The 6th National Conference on Watershed Management,

- Apr. 28-29 2010, Gorgan, Gorgan University of Natural Resources and Agricultural Sciences, Paper code: 103
- Jafari, R., 2010. Analysing the potential of hyperspectral data for identifying arid vegetation. National Conference on Geomatics, May 2010, National Cartographic Center, Tehran, Iran.
 - Khanamani, A., Karimzadeh, H. R, and Jafari, R., 2010. Determination of susceptible area to wind erosion using GIS. First International Conference of soil and roots engineering relationship (LANDCON1005), May. 24-26 2010, Ardabil Province, Iran.
 - Khanamani, A., Jafari, R. , and Karimzadeh, H. R, 2010. Soil and wind erosion. First International Conference of soil and roots engineering relationship (LANDCON1005), May. 24-26 2010, Ardabil Province, Iran.
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 - Jafari, R., 2009. Use of remote sensing for drought assessment and monitoring. The First International Conference on Water Crisis, Mar. 10-12 2009, Zabol, Zabol University, pp. 1-5
 - Jafari, R., 2009. Role of satellite remote sensing in water erosion assessment. The 5th National Conference on Watershed Management, Apr. 22-23 2009, Gorgan, Gorgan University of Natural Resources and Agricultural Sciences, Paper code: 128
 - Jafari, R., 2009. Application of Remote Sensing in Biodiversity and Conservation, Apr. 26 2009, The 1st Conference of INERT Members, Tehran, Department of The Environment, pp. 169-174.

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- Jafari, R., 2008. Analysis of arid land degradation using satellite remote sensing data, Proceedings of 2nd Regional conference in Agriculture and Natural Resources, Mar. 3-4 2008, West of Iran, Kurdistan University, pp. 312.
- Jafari, R., 2008. Use of remote sensing for differentiating climate and human impacts on vegetation cover, Proceedings of 1st International Conference on Climate Change and dendrochronology in Caspian Ecosystems,14-15 May 2008, North of Iran, Sari, Mazandaran University, pp. 1-6.
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 - Jafari, R., Lewis, M.M. and Ostendorf, B., 2006. Use of EO-1 Hyperion Hyperspectral imagery for discriminating arid vegetation, Proceedings of the 13th Australasian Remote Sensing and Photogrammetry Conference. The Remote Sensing and Photogrammetry Association of Australia Ltd, November 24-28, Canberra, Australia, Paper code: 290.
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 - Jafari, R., Zehtabian, GH. R., Ahmadi, H., Ekhtessasi, M. R., 2002. Determination of wind erosion intensity using desertification model in Kashan area, Iranian Journal of Natural Resources 55 (2), 145-156.
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 - Jafari, R., 1999. Assessment of rangeland yield in Taleghan region of Tehran Province, B.Sc. project, Faculty of Natural Resource, Tehran University, Tehran, Iran.

Books

- Hyperspectral remote sensing (principles and applications), 2008, Marcus Borengasser, William S. Hungate, Russell Watkins, CRC Press, Taylor & Francis (Translated to Farsi)
- Field Methods in Remote Sensing, 2005, Roger M. McCory, Guildford (Translated to Farsi)

Thesis Supervisor

| No. | Title | Name |
|------------|---|--------------|
| 1 | Vegetation decline monitoring using satellite thermal and reflectance data, Ilam province | Hasani, A |
| 2 | The Potential of Hyperion Hyperspectral Data In Endmember Extraction (Case Study: Isfahan County) | Davoudi, L |
| 3 | Studying land use and land cover changes of behesht abad plain Chaharmahal va Bakhtiari province using remote sensing techniques | Mohamadi, Y |
| 4 | Phytogeographical mapping of Isfahan Province using satellite products | Shamshiri, F |
| 5 | Monitoring sand dune movement of Hassanabad-Jarghouyeh region using satellite imagery | Jebali, A |
| 6 | Mapping Snow Cover Changes and Simulating Snow Melt Runoff Using SRM Model and Remote Sensing (Hamedan-Bahar Area) | Azizi, V |
| 7 | Mapping sensitive areas to land degradation based on satellite data at regional scale | Skandari, H |
| 8 | Mapping and monitoring land use changes in Kale Shore basin, North Khorasan, using satellite imagery | Ramezani, F |
| 9 | Mapping and Assessment of Desertification Using MEDALUS Model and Bayesian Belief Networks | Boali, A |
| 10 | Land degradation mapping and monitoring based on satellite data and assessment of its economic losses in Fars province | Dehghani, S |
| 11 | Land Degradation Assessment and Monitoring in South of Isfahan Province Using Remote Sensing and Geostatistical Techniques | Mashadi, A |
| 12 | Investigating the Potential of Remote Sensing Data in Producing Soil Salinity and Alkalinity Map in Southeastern Isfahan | Mah,oudi, F |
| 13 | Integrating Land Use Impact Model with Bayesian Belief Networks to Map and Assess the Risk of Soil Erosion in Karchambooy Catchment, Isfahan | Habibi, H |
| 14 | Integrating Land Use Impact Model and Bayesian Belief Network to Map and Assess the Risk of Water Erosion | Taei, M |
| 15 | Impact of Gavkhouni international wetland drying on desertification process | Fattahi, H |
| 16 | Fire Risk Mapping of Rangelands and Forests Using Remote Sensing and Keetch Byram Drought Index Techniques (Case Study: Isfahan Province, Iran) | Abbasi, N |
| 17 | Fire risk mapping incorporating peripheral and social factors in Marvdasht | Zareh, S |

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| | natural lands | |
| 18 | Evaluating The Potential of Remote Sensing Data to Estimate Evapotranspiration in Semi - Arid Regions | Moshtagh, N |
| 19 | Economic Impact Assessment of Land Use/Land Cover Changes Through Remote Sensing and Survey Methods | Asoudeh, M |
| 20 | Dust source identification in Isfahan Province using satellite and field data | Abedi, M |
| 21 | Dust Prediction, Trajectory and Mapping Using WRF and HYSPLIT Models and Satellite images | Alidadi, S |
| 22 | Dust mapping using satellite images(Case study: Khuzestan province) | Mehrabi, Sh |
| 23 | Dust Mapping Using MODIS Satellite Data (Case Study: Kermanshah Province) | Shamshiri, S |
| 24 | Drought Monitoring Using Remote Sensing and Climatic Indices in Khorasan Razavi Province | Zormand, S |
| 25 | Determining the potential habitat of two rangeland species <i>Agropyron trichophorum</i> & <i>Astragalus verus</i> with the integration of GIS and Remote sensing in southern Karchambouy area, Fereidan-Esfahan | Aliakbari, A |
| 26 | Detection of Drought Effects on Land Cover Changes Using Meteorological and Remote Sensing Data in the West of Isfahan Province | Nourian, M |
| 27 | Desertification Monitoring Using Remotely- Sensed Thermal and Reflectance Data(Case Study: East of Isfahan City) | Hasheminasab, N |
| 28 | Desertification Evaluation with MEDALUS Models in East of Isfahan | Khanamani, A |
| 29 | Comparison of pixel and subpixel methods for mapping rangeland vegetation cover (Case study: Semirom region, Isfahan province) | Farazmand, m |
| 30 | Comparison of FAO - UNEP , MEDALUS and MICD Models for Mapping Desertification Severity (Case Study : Jarghoyeh Sofla Region , Esfahan Province) | Fathi, M |
| 31 | Comparing the performance of IRIFER and LUIM models in wind erosion assessment, Segzi Plain, Isfahan Province | Gorginpour, D |
| 32 | Assessment of Physical and Chemical Variations of Windborn Dust over Kerman province, Iran | Hamdamju, M |
| 33 | Application of rangeland health method and remotely sensed metrics in rangeland function assessment of Ghamishlou and Fereidonshar regions, Isfahan province | Zabzalipour, M |
| 34 | Analysing Vegetation Cover Changes and Its Relationship With Rainfall Using Satellite Data | Hadian, F |
| 35 | Analysing the functionality of rangeland landscapes using remote sensing data | Andalibi, L |
| 36 | Analysing rangeland function and structure using remote sensing data and field-based LFA method | Jafari, F |
| 37 | Rangeland degradation assessment with use of spectral diversity | Tangestani, S |