

## Curriculum Vitae

### MANUCHEHR FARAJZADEH

#### Professor of Tarbiat Modares University

Updating Date: May 2026

### GENERAL INFORMATION

**Name and surname:** Manuchehr Farajzadeh Asl

**Marital status:** Married

**Date of Birth:** 25 April 1965, Iran

**Address:** Department of Physical Geography, P. O. Box 14155-4838, Tarbiat Modares University, Tehran, Iran

**Tel: Mobil:** +98 912 1723124, Office: +982182884666

**Fax:** +98 2188006544

**E-mail:** frajzam@modares.ac.ir, farajzam2000@gmail.com, farajzam2000@yahoo.com

### METRICS DATA

**Website:** [http://www.modares.ac.ir/pro/academic\\_staff/farajzam](http://www.modares.ac.ir/pro/academic_staff/farajzam)

**SCOPAS:** <https://www.scopus.com/authid/detail.uri?authorId=6603835241>

**GOOGL SCHOLAR:** <https://scholar.google.com/citations?hl=en&user=6n-aV0sAAAAJ>

**PUBLONS:** <https://publons.com/researcher/3161241/manuchehr-farajzadeh/>

**RESEARCHGATE:** <https://www.researchgate.net/profile/Manuchehr-Farajzadeh/stats>

**LINKEDIN:** <https://www.linkedin.com/in/dr-manuchehr-farajzadeh-52541a22a>

**WOS:** <https://mjl.clarivate.com/home-AAC-2071-2019>

**ORCID:** <https://orcid.org/my-orcid?orcid=0000-0002-4916-9304>

**ISC:** <https://dana.isc.ac/res/IR-0000-RF-FFDE28B5>

### EDUCATION

- **Ph.D., University of Tarbiat Modares\_ Iran, Physical Geography (Climatology), 1995.**
- **M. Sc., University of Tabriz\_ Iran, Physical Geography, 1989.**
- **B.Sc., University of Tabriz\_ Iran, Physical Geography, 1987.**

### COURSES TAUGHT

- **Climate change and global warming**
- **Climate change impacts in Iran**
- **Satellite Meteorology**
- **Geographic Information Systems**
- **Remote Sensing**
- **Applied Climatology**
- **Advanced hydrology**
- **Statistical methods**
- **Tourism climatology**
- **Medical climatology**
- **Iranian climatic hazards**

## **RESEARCH INTERESTS**

- Climatology
- Remote Sensing
- Geographic Information Systems
- Spatial planning

## **HONERS**

- Selected referee in the field of humanities, social sciences and arts of the National Science Foundation of Iran, 2024
- Superior researcher of Tarbiat Modares University, 2022.
- Exemplary professor of Tarbiat Modares University, 2021.
- Superior researcher of Islamic republic of Iran, 2014.
- Superior researcher of Tarbiat Modares University, 2006.

## **International Training Courses Certificates**

- International training course on agriculture in arid areas, China, 2007
- International training course on desertification control, China, 2005,
- Application of geoinformatics in biodiversity, India,2003
- International training course on social and economic effects of climate change, Italy, 2001
- International training course on sediment transportation, Turkey, 1998

## **MEMBERSHIP OF EDITORL BOARD OF JOURNALS AND SCIENTIFIC SOCIETIES**

- Editorial Board Member of the Edelweiss Applied Science and Technology
- Editorial Board Member of the Remote Sensing for Sustainable Oceans
- Chief editor of Journal of Geography and Development, University of Sistan and Baluchestan
- Chief editor of Journal of Geography and Environmental Sustainability, University of Razi
- Member of editorial board of land use planning journal
- Member of Society of Remote Sensing and GIS of Iran
- Member of Society of Iranian climatology
- Member of Society of Iranian Geographer
- Member of International Association of Hydrological Sciences
- Member of Asia-pacific Chemical, Biological & Environmental Engineering Society

## PROJECTS SUPERVISED (IN IRAN)

- Flood in Iran, 2021.
- Climate change in Iran and its impacts, 2020.
- Water crises studies on Nishabour plain using GIS, 2006.
- Project of integrated coastal zone management of Iran, 2005.
- Site location of rest area in Shahid Kalantary highway, 2002.
- The preparing national action program to control of desertification in Iran, 2001.
- The preparing sea surface temperature map for Caspian Sea using NOAA data, 2000.
- Drought zonation of Iran, 2000.
- Natural resources studies for rearrange of rural residents in Qazvin, Azerbaijan, Sistan and Baluchistan provinces, 1997.
- Natural resources studies for project of Hormozgan province development, 1995.
- Landslide zonation project of Jajrood area using GIS, 1994.
- Climatology studies of Bahmanshir river de sedimentation project, 1990.
- Climatology and hydrological studies of Jask estuary sedimentation project, 1990.
- Climatology studies of Salakh breakwater, 1990.
- Basic resources studies of liquefaction zonation of Iran project, 1990.

## BOOKS (IN PERSIAN)

- Farajzadeh Manuchehr, Ahmadi Mohammad, Fundamental of Teleconnection Patterns climatology with Focus on Iran, Entekhab Publisher, 2025.

Ghavidel Rahimi Yousef, Maryam Sadeghi, Manuchehr Farajzadeh, Tracing changes in Iran's climate; Study sample: The effect of sunspots and carbon dioxide on humidity and evaporation in Bandar Abbas, Hozeh Mashkh Publications, 2021.

- Farajzadeh Manuchehr, Shamsedini Ali, Zyaeyan Parviz, Fundamentals of Remote Sensing, SAMT Publisher, 2021.
- Farajzadeh Manuchehr, Ghasemifar Elham, Climate change in Iran, Entekhab publisher, 2020.
- Farajzadeh Manuchehr, Baghbanan Parasto, Climatic hazards management, Entekhab publisher, 2018.
- Farajzadeh Manuchehr, Analysis and explanation of theories basis and methodology of current spatial planning, 2016, Iranian and Islamic of advances center publisher.
- Farajzadeh Manuchehr. Vadoodi Mofid Vida, Medical Climatology, 2015, Entekhab Publisher, Iran.
- Farajzadeh Manuchehr, Karimi Nematolah, Satellite Meteorology, 2014, SAMT Publisher, Iran
- Farajzadeh Manuchehr, Iranian climatic hazards, 2014, SAMT publisher, Iran.
- Farajzadeh Manuchehr, Principles of geographic information system, 2010, Entekhab Publisher.
- Farajzadeh Manuchehr, Climatology Techniques, 2007, SAMT Publisher.
- Farajzadeh Manuchehr, Applications of GIS in Tourism Planning, 2005, SAMT Publisher.
- Farajzadeh Manuchehr, Drought (from concepts to solutions), 2005, National Geographic Organization Publisher

## INTERNATIONAL PAPERS

1. Razi Ghalavand, Farajzadeh Manuchehr; Ghavidel Rahimi Yousef, 2026, Non-stationary frequency assessment of return levels and percentiles changes of extreme rainfall under climate change in Iran, International Journal of Environmental Science and Technology, 23 (394), 1-14.
2. Bayan Khaledi; Farajzadeh Manuchehr; Ghavidel Rahimi Yousef, 2026, Trend

- Assessment and Correlation Analysis of Thermal Indices, Snow Depth, and NDSI across Elevational Profiles in the Al-borz Mountain Range, Geographies, Accepted Article.
3. Ramyar Yousef Neghad; Farajzadeh Manuchehr; Ghavidel Rahimi Yousef, 2026, Accuracy Assessment of CMORPH and GPCP Satellite Precipitation Products Across Iran, *Climate*, 14, 82, 1-21.
  4. Mehdi Zadeh Soula Javad, Ghavidel Yousef, Farajzadeh Manuchehr, 2025, High-Resolution Spatiotemporal Analysis of Drought Dynamics in Iran, *Environmental Monitoring and Assessment*, 197, 1005. <https://doi.org/10.1007/s10661-025-14443-2>.
  5. Salehi Pak Tahmineh, Ghavidel Yousef, Farajzadeh Manuchehr; 2025, Synoptic analysis of the most severe and widespread extreme cold wave hazard in Iran, *Natural Hazards*, 121, 11151–11172. { HYPERLINK "<https://doi.org/10.1007/s11069-025-07241-z>" }
  6. Razi Ghalavand Mahin, Farajzadeh Manuchehr, Ghavidel Rahimi Yousef; 2025, Modeling Return Levels of Non-Stationary Rainfall Extremes Due to Climate Change, *Atmosphere*, 16 (2), 136, 1-16.
  7. Jameel Khalid Nazar; Farajzadeh Manuchehr; Ghavidel Rahimi Yousef; Shah Hosseini Majid, Paleoclimatology of Fellaw Lake Area\_ Iraq: A review, *Sustainable Earth Trends*, Accepted.
  8. Farajzadeh Manuchehr, Nazar Jameel Khalid, 2023, Analysis of anthropogenic and climate change effects on Mesopotamian Marshland – Iraq, *Sustainable Earth Review*, Volume 3, No. 2, pp 12-25.
  9. Fanaei Razieh, Yousef Ghavidel, Manuchehr Farajzadeh, 2023, The reanalysis of long term spatial changes in maximum temperature in Iran, *Pure and Applied Geophysics*, No. 180, P 3371-3384.
  10. Rezaei Mohammad, Manuchehr Farajzadeh, Sunny Kant, 2023, The observational evidence of association between types of aerosol mode-cloud-precipitation interaction over Iran, *Atmospheric Pollution Research*, No. 14, P 1-18.
  11. Rezaei Mohammad, Tero Mielonen, Manuchehr Farajzadeh, 2022, Climatology of atmospheric dust corridors in the Middle East based on satellite data, *Atmospheric Research*, 280, 106454, P 1-16.
  12. Karzani Marziye, Yousef Ghavidel, Manuchehr Farajzadeh, 2022, Temporal changes in lethal temperatures above 50° C in the Northern Hemisphere", *Pure and Applied Geophysics*, No. 179, P 3377-3390.
  13. Barati Mohammad Javad, Manuchehr Farajzadeh Asl, Reza Borna, 2022, Analysis of temperature change properties in Tehran using satellite data, *Journal of Rescue and Relief*, Vol. 14, Issue 1, P 10-18.
  14. Sadeghi Farashad, Yousef Ghavidel, Manuchehr Farajzadeh, 2022, long term analysis of the spatiotemporal standardized precipitation evapotranspiration index foe West Asia, *Arabian Journal of Geosciences*, 15, 1183, P 1-15.
  15. Esvandzibaie Frozan, Manuchehr Farajzadeh, Yousef Ghavidel, 2022, Analysis of temporal and spatial changes of precipitation and flow rate in arid regions with a

statistical approach (case study: Central Plateau catchment area of Iran), International Journal of Environmental Science and Technology, 19, P 6803-6824.

16. Alijahan Mehdi, Anthony R. Lupo<sup>2</sup>, Bromand Salahi, Yousef Ghavidel Rahimi, Manuchehr Farajzadeh, 2022, The long-term (142 years) spatiotemporal reconstruction and synoptic analysis of extreme low temperatures ( $-15^{\circ}\text{C}$  or lower) in the northwest region of Iran, Theoretical and Applied Climatology, No. 147, P 1415-1436.
17. Ghavidel Yousef, Mahdi Shojaei, Manuchehr Farajzadeh, 2021, Temporal variations in the frequency of thunderstorm days in Tabriz and its relationship with sunspots frequency and global atmospheric  $\text{CO}_2$  concentration, Meteorology and Atmospheric Physics, 133, P 1591-1601.
18. Zerafati Hadi, Yousef Ghavidel, Manuchehr Farajzadeh, 2021, Historical reconstruction and statistical survey on long-term temporal changes in temperatures above  $50^{\circ}\text{C}$  in West Asia, { HYPERLINK "<https://www.researchgate.net/journal/Arabian-Journal-of-Geosciences-1866-7538>" } 14(21), DOI:{ HYPERLINK "<http://dx.doi.org/10.1007/s12517-021-08611-0>" \t "\_blank" }.
19. Parasto Baghbanan, Yousef Ghavidel, Manuchehr Farajzadeh, 2021, Spatial Analysis of the Temporal Long-Term Variations in Frequency of Dust Storm Days in Iran, { **HYPERLINK** "<https://www.scopus.com/sourceid/28579?origin=resultslist>" \o "Show document details" }, 178(10), P 4181-4194.
20. Hosseini Alireza, Yousef Ghavidel, Manuchehr Farajzadeh, 2021, Characterization of drought dynamic in Iran by using S-TRACK method, Theoretical and Applied Climatology, 145 (1-2), P 661–671.
21. Hosseini Alireza, Yousef Ghavidel, Ali Mohammad Khorshiddoust, Manuchehr Farajzadeh, 2021, Spatio-temporal analysis of dry wet periods in Iran by using Global Precipitation center- Drought index(GPCC-DI), Theoretical and Applied Climatology, 143, P1035–1045.
22. Parasto Baghbanan, Yousef Ghavidel, Manuchehr Farajzadeh, 2020, Temporal long-term variations in the occurrence of dust storm days in Iran, Meteorology and Atmospheric Physics, No 132, P 885-898.
23. Mousavi Seyed Mohsen, Samereh Falahatkar, Manuchehr Farajzadeh, 2020, The role of wind flow on sources of carbon dioxide concentration in the provincial scale, Journal of Environmental Science and Technology, 22, 6, 147-160.
24. Baghbanan Parasto, Ghavidel Rahimi Yousef, Manuchehr Farajzadeh, 2020, Spatial analysis of spring dust storms hazards in Iran, Theoretical and applied climatology, No. 139, P

1447-1457.

25. Ghasemifar Elham, Manuchehr Farajzadeh, Chenour Mohammadi, Ebrahim Alipoor, 2020, Long-term change of surface temperature in water bodies around Iran- Caspian sea ,Gulf of Oman and Persian Gulf-using 2001-2015 MODIS data, *Physical Geography*, Vol. 41, No. 1, P 21-35.
26. Alibakhsi Zahra, Mahmoud Ahmadi, Manuchehr Farajzadeh Asl, 2020, Modeling biophysical variables and land surface temperature using the GWR model: case study- Tehran and its satellite cities, *Journal of the Indian society of remote sensing*, No. 48(1), P 59-70.
27. Ghasemifar Elham, Chenour Mohammadi, Manuchehr Farajzadeh, 2019, Spatiotemporal analysis of snow cover in Iran based on topographic characteristics, *Theoretical and applied climatology*, No. 137, P 1855-1867.
28. Rezaei Mohammad, Manuchehr Farajzadeh, Yousef Gavidel Rahimi, 2019, Discrimination of aerosol types over the Tehran city using 5 years (2011-2015) of MODIS Collection 6 aerosol products, *Journal of Environmental Health Science and Engineering*, No. 17, P 1-12.
29. Aalijahan Mehdi, Bromand Salahi, Yousef Ghavidel Rahimi, Manuchehr Farajzadeh, 2019, A new approach in temporal-spatial reconstruction and synoptic analysis of cold waves in the northwest of Iran, *Theoretical and Applied Climatology*, No. 137, P 341-352.
30. Gavidel Rahimi Yousef, Alimohamad Khorshiddoust, Manuchehr Farajzadeh, Hamideh Porshahbaz, 2019, Identification of the thresholds of extreme values and synoptic analysis of PM10 pollution in the atmosphere of Ahvaz, *Pollution*, Vol. 5, No. 3, P611-621.
31. Rezaei Mohammad, Manuchehr Farajzadeh, Tero Mielonen, Yousef Gavidel Rahimi, 2019, Analysis of spatio-temporal dust aerosol frequency over Iran based on satellite data, *Atmospheric Pollution Research*, No 10, P 508-519.
32. Mohamadi Chonour, Farajzadeh, Manuchehr, Gavidel Rahimi Yousef, Aliakbar Bidokhoti Abbasali, 2018, Comparison of univariate and multivariate weighted regression for estimating air temperature over Iran, *Arabian Journal of Geosciences*, Vol. 11, No. 360.
33. Ghasemifar Elham, Farajzadeh, Manuchehr, Charles Perry Matthew, Gavidel Rahimi Yousef, Aliakbar Bidokhoti Abbasali, 2018, Analysis of spatiotemporal variation of cloud fraction based on geographic characteristics over Iran, *Theoretical and Applied Climatology*, 134, 3-4, 1429-1445.
34. Ghasemifar Elham, Farajzadeh, Manuchehr, Gavidel Rahimi Yousef, Aliakbar Bidokhoti Abbasali, 2018, Precipitation rate climatology related to different cloud types using satellite imagery over Iran, *Arabian Journal of Geosciences*, Vol. 11, No. 78, P 1-14.
35. Rezaei, M., Farajzadeh M., Gavidel Y., Alam K., 2018, Spatio-temporal variability of aerosol characteristics in Iran using remotely sensed datasets, *Pollution*, Vol. 4, No, 1, P 53-67.

36. Falahatkar Samereh, Mousavi Seyed Mohsen, Manuchehr Farajzadeh, 2018, Spatial and temporal distribution of carbon dioxide gas using GOSAT data over IRAN, *Environmental Monitoring and Assessment*, 189, 627.
37. Halimi M., M. Rezaei, Ch Mohamadi, M. Farajzadeh, 2017, Association between cloudiness and rainfall over Fars Province in Iran, *Russian Metrology and hydrology*, Vol. 42, No. 10, 671-676.
38. Farajzadeh Manuchehr, Mohammad Ahmadi, 2017, A Synoptic-Climatology Approach to Increase Skill of Numerical Weather Predictions over Iran, *Natural environment change*, volume 3, No. 3, 1-9.
39. Davtalab Rahman, Ali Mirchi, Sina Khatami, Rabi Gyawali, Alireza Massah, Manuchehr Farajzadeh, Kaveh Madani, 2017, Improving Continuous Hydrologic Modeling of Data-poor River Basins using HEC-HMS: Case study of Karkheh River Basin, *ASCE's Journal of Hydrologic Engineering*, V. 22, No. 8, P 1-13.
40. Mousavi Seyed Mohsen, Samereh Falahatkar, Manuchehr Farajzadeh, 2017, Assessment of seasonal variations of carbon dioxide concentration in Iran using GOSAT data, *Natural Resources Forum*, No. 41, P 83-91.
41. Ghavidel Yousef, Baghbanan Parasto, Farajzadeh Manuchehr, 2017, The spatial analysis of thunderstorm in Iran, *Arabian Journal of Geoscience*, 10, 123-12.
42. Halimi M., Farajzadeh M., Zarei Z., 2016, Modeling spatial distribution of Tehran air pollutant using geostatistical methods incorporate uncertainty maps, *Pollution*, Vol. 2, No, 4, 375- 386.
43. Ghavidel Rahimi Yousef, Tolabi Nejad Maysam, Farajzadeh Manuchehr, 2016, *Natural Environment Change*, Vol. 2, No. 1, 47-55.
44. Mousavi Syyed Shafi, Farajzadeh Manuchehr, Ghavidel Rahimi Yousef, Bidokhti Abbasali Aliakbari, 2017, climatic variability of the column ozone over the Iranian plateau, *Meteorology and Atmospheric Physics*, No.129, 309-320.
45. Ghavidel Rahimi Yousef, Farajzadeh Manuchehr, khaleghy Meysam, 2016, Synoptic backgrounds of the widest wildfire in Mazandaran Province of Iran during December 11-13, 2010, *Meteorology and Atmospheric Physics*, 128, 763-777.
46. Ghavidel Yousef, Baghbanan Parasto, Farajzadeh Manuchehr, 2016, A statistical survey on linking between thunderstorm frequency and teleconnection patterns in Iran, *Arabian journal of geoscience*, 9, 426,1-12.
47. Farajzadeh Manuchehr, Halimi Mansour, Ghavidel Yousef, Delavari Mehdi, 2015, Spatiotemporal anopheles population dynamics response to climatic conditions: the case of Chabahar, south Baluchistan, Iran, *Annals of Global Health*, Vol. 81, No. 5, 694-704.
48. Halimi Mansour, Farajzadeh Manuchehr, Delavari Mahdi, Arbabi Mohsen, 2015, Developing a climate-based risk map of fascioliasis in Iran, *Journal of Infection and Public Health*, Vol. 8, No. 5, 481-486.
49. Farajzadeh Manuchehr, Kamangar Mohammad, Bahrami Fahimeh, 2015, Assessing landscape change of Minab delta morphs before and after dam construction, *Journal of*

Natural Environment Change, Vol. 1, No. 1, 21-29.

50. Ghavidel Rahimi Yousef, Abbasi Esmaeil, Farajzadeh Manuchehr, 2015, Analysis of the effect of tropical cyclone Phet in the occurrence of heavy rainfall and floods in Chabahar, Iran, *Weather*, Vol. 70, No. 12, 348-352.
51. Salehizadeh Ali Akbar, Rahmanian Mohammad, Farajzadeh Manuchehr, Ayobi Abdolhossein, 2015, Analysis of temperature change on electricity in Fars province, *Mediterranean Journal of Social Sciences*, Volume 6, No. 3 S2, 610-617.
52. Shafizadeh-Moghadam, H., Hagenauer, J., Farajzadeh, M., & Helbich, M., 2015, Performance analysis of radial basis function networks (RBFN) and multi-layer perceptron (MLP) networks in modeling urban change: A case study. *International Journal of Geographical Information Science (IJGIS)*, Volume 29, Issue 4, 606-623.
53. Farajzadeh Manuchehr, Oji Rohollah, Canon A. J., Ghavidel Yousef, Massah A. R., 2015, An evaluation of single-site statistical downscaling techniques in terms of indices of climate extremes for Midwest of Iran. *Theoretical and Applied climatology*, No 120, 377-390.
54. Karimi Neamat, Eftekhari Morteza, Farajzadeh Manuchehr, Namdari Soodabeh, Moridnejad Ali, Karimi Danesh, 2015, Use of multitemporal satellite images to find some evidence for glacier changes in the Haft- Khan glacier, Iran, *Arabian Journal of Geosciences*, 8, 5879-5896.
55. Feizi Vahid, Mollashahi Maryam, Farajzadeh Manuchehr, Azizi Ghasem, 2014, Spatial and temporal trend analysis of temperature and precipitation in Iran, *Ecopersia*, Vol. 2, No. 4, 727-742.
56. Sharifi Hadi, Farajzadeh Manuchehr, Shayan Siavash, 2014, Landslide susceptibility assessment using multiple linear regression and artificial neural networks, in the region Javanrood- Ravansar, *Advances in Environmental Biology*, 8 (11) special, 393-398.
57. Shirazi Amirhoshang, Farajzadeh Manuchehr, Servati Mohammad Reza, 2014, Strength of Damavand cone quaternary rocks against destruction and erosion based on mineralogy composition by using TAS & KUNO diagrams, *International Research journal of Applied and Basic Sciences*, Vol. 8, No. 7, 808-815.
58. Karimi Neamat, Farajzadeh Manuchehr, Moridnejad Ali, Namdari Soodabeh, 2014, Evidence for mountain glacier changes in semi-arid environments based on remote sensing data, *Journal of Indian Society of Remote Sensing*, V. 42, No. 4, 801-815.
59. Fallah Mahdi, Vagharfard Hassan, Farajzadeh Manuchehr, Nick Kheslat Ali, 2014, Assessment of spatial multi-criteria decision-making with process of the artificial neural network methods to sit selection of the wastewater treatment plant (case study: Qeshm Island), *International Journal of Advanced Biological and Biomedical Research*, V. 2, No. 6, 2061-2066.
60. Khorani A., Farajzadeh M., Bazgeer S., Zaeian P., 2014, A statistical approach for estimating wheat yield using bootstrap resampling for rainfed farming; a case study of Kurdistan province, Iran, *Bulgarian Journal of Agricultural Science*, 20 (No 2), 267-274.
61. Farajzadeh Manuchehr, Karimi Neamat, 2014, Evidence for accelerating glacier ice loss

in the Takht'e Solaiman Mountains of Iran from 1955 to 2010, *Journal of Mountain Science*, 11(1), 215-235.

62. Halimi Mansour, Farajzadeh Manuchehr, Delvari Mahdi, Takhtardeshir Ashraf, Moradi Abbas, 2014, Modelling spatial relationship between climatic conditions and annual parasite incidence of malaria in southern part of Sistan & Baluchistan province of Iran using spatial statistic models, *Asian Pacific Journal of Tropical Disease*, No. 4 (Suppl 1), 167-172.
63. Farajzadeh Manuchehr, Taghilo Ali, 2013, The wind energy potential zoning using GIS and fuzzy MCDM-based approach (study area: Zanzan province, Iran), *The International Journal of Humanities*, Vol. 20, No. 2, P 45-61.
64. Hoseini Tavassol Morteza, Arzani Hosein, Farajzadeh Manuchehr, Jafari Mohamad, Babaie Kafaki Sasan, 2013, Monitoring of rangeland vegetation changes in Alborz Province (Iran) using simple ratio index, *Journal of Biodiversity and environmental Sciences(JBES)*, Vol. 3, No. 11, 78-85.
65. Moradi, R. H., Rajabi M., Fragzadeh M., 2011, Investigation of meteorological drought characteristics in Fars province, Iran, *CATENA*, .No 84, pp35-46.
66. Mobasheri M. R., Chahardoli M., Farajzadeh M., 2010, Introducing PASAVI and PANDVI methods for sugarcane physiological date estimation, Using ASTER images, *Journal of Agriculture Sciences and Technology*, Vol. 12, pp 309-320.
67. Farajzadeh Manuchehr, Rahimi Mohamad, Kamali Gholam Ali, Mavronnatis Theodoros, 2010, Modelling apple tree bud burst time and frost risk in Iran, *Meteorological Applications*, No. 17, pp 45-52.
68. Zarrin Azar, Ghaemi Hoshang, Azadi Majid, Farajzadeh Manuchehr, 2010, the spatial pattern of summertime subtropical anticyclones over Asia and Africa: A Climatological review, *International Journal of Climatology*, Volume 30, No. 2, pp 159-173.
69. Farajzadeh Manuchehr, Darand Mohammad, 2009, Analyzing the influence of air temperature on the cardiovascular, respiratory and stroke mortality in Tehran, *Iranian Journal of Environmental Health Science & Engineering*, Vol. 6, No. 4, pp. 261-270.
70. Mobasheri M. R., Chahardoli M., Jokar J., Farajzadeh M. ,2008, Sugarcane phonological date estimation using broad-band digital cameras, *American Journal of Applied sciences*, Vol. 3, No. 2, pp. 475-468.
71. Mobasheri M.R., Purbager Kordi S., Farajzadeh M., Sadeghi Naeini, 2008, Improvement of Remote Sensing Techniques in TPW Assessment Using Radiosonde Data, *Journal of Applied Sciences*, No. 3, pp. 480-488.
72. Rezaei Moghdam M.H., Khayyam M., Ahmadi M., Farajzadeh M.,2008, Mapping Susceptibility Landslide by Using the Weight-of-evidence Model, *Journal of Applied Sciences*, Vol. 7, No. 22, pp. 3342-3355.
73. Farajzadeh Manuchehr, Adab Hamed, Amiri Reza , 2008, The preparation of the Colza (*Brassica Napus*) suitability map using statistical analysis and GIS; case study: Sabzevar Township, Iran, *International Journal of Botany*, , Vol. 4, No. 3, pp. 359-365.
74. Farajzadeh Manuchehr, Asadolah Khorany, Hassan Lashkary, 2008, The relation of Jet

- Stream Location and cyclones over the western Iran, American Journal of Applied Sciences, Vol. 5, No. 1, pp. 1312-1308.
75. Ahmadabadi A., Fathnia A., Karimi Ahmadabad M., Farajzadeh M, 2008, 'The Accuracy of SST Retrievals from NOAA-AVHRR in the Persian Gulf', Journal of Applied Sciences, Vol. 9, No. 7, pp. 1382-1378.
  76. Farajzadeh Manuchehr, Karimi Ahmadabad Mostafa, Gaemy Hoshang, Mobasheri Mohamad Reza, 2007, Studying the moisture flux over of Iran, Journal of Applied Sciences, 13, No. 20, pp. 3023-3030.
  77. Farajzadeh Manuchehr, Hosini Ameneh Bygom, Amiri Reza ,2007, Water crisis analysis using GIS; case study: Nishabur plain- Iran, Asian Journal of Plant Sciences, 6, No. 5, pp. 884-891.
  78. Farajzadeh Manuchehr, Nik Egbal Mahbobeh, 2007, Evaluation of MEDALUS model for desertification hazard zonation using GIS; study area: Iyzad Khast plain, Iran, Pakistan Journal of Biological Sciences, Vol 10, No. 16, pp. 2622-2630.
  79. Pak Ali, Farajzadeh Manuchehr, 2007, Iran's Integrated Coastal Management Plan: Persian Gulf, Oman Sea, and Southern Caspian Sea Coastlines, Ocean & Coastal Management, No. 50, pp. 773-754.

## **SELECTED INTERNAL PAPERS (PERSIAN)**

- Rezaei Mohammad, Farajzadeh Manuchehr, 2025, Analysis of the effect of atmospheric dust corridors in the Middle East and North Africa on Iran's climate, *Journal of Earth and Space Physics*, Volume 51, No. 1. 264-287.
- Yousef Negad Ramiar, Almasi Faegeh Farajzadeh Manuchehr, Yousef Ghavidel, 2025, Evaluation of the accuracy of PERSIANN family satellite precipitation data on daily, monthly and annual scales in Iran. *Journal of application of remote sensing and geographic information system in environmental sciences*, Volume 4, No. 13, P 90-116.
- Almasi Faegeh, Farajzadeh Manuchehr, Yousef Ghavidel, ۲۰۲۳, Assessing the risk of mortality caused by heat stress in Iran's metropolises, *Journal of Natural Environmental Hazards*, Vol.12, Issue 38, P 130-148.
- Esvanzibaie Frozan, Manuchehr Farajzadeh, Yousef Ghavidel, 2022, Sensitivity analysis of rivers in arid regions to changes in atmospheric elements under climate change conditions Case study: Central catchment area of Iran, *Physical Geography Quarterly*, Vol. 14, No. 55. P 1-55.
- Farajzadeh Manuchehr, Yousef Ghavidel, Behroz Asadzadeh, 2021, The evaluation of climate change effects on wheat yield in Iran, *Climate Change Research*, Vol. 2, No. 6, P 1-18.
- Ghasemifar Elham; Manouchehr Farajzadeh; Yousef Ghavidel Rahimi; Abbas Ali Akbari, 2018, Analysis of spatiotemporal variations of cloud fraction based on Geographic characteristics in Iran, *Journal of earth and space physics*, Vol. 44, No. 1, 103-124.
- Ghavidel Rahimi Yousef , Esmail Abbasi, Manuchehr Farajzadeh, 2017, The Properties of Tropical Storm Hazards in Southeast Costs of Iran, *The Journal of Spatial Planning*, Vol. 21, No. 3, 279-293.
- Farajzadeh M, Gholamy S, Ghavidel Y. 2016, Identifying the Climatic Factors Affecting the Prevalence of Cutaneous Leishmaniosis in Ilam Province, Iran, Using Satellite Imagery, *Hakim Health Sys Res*, 19, 3, 152-162.
- Farajzadeh M, Ghavidel Rahimi Y, Mokri S., 2015, The Analysis of Forest Fires with Climatic Approach Using Satellite Data in Alborz Area\_ Iran. *Journal of spatial analysis environmental hazards*, 2 ,3, 83-104.
- Farajzadeh M., Kolsoom Ahmadian, 2014, Temporal and Spatial Analysis of Drought with use of SPI Index in Iran, 3, 4, 1-16.
- Farajzadeh M., Saeed Rajae Najafabadi, 2013, The Analysis of Synoptic Conditions of Flood Occurrence in Heavy Rainfalls (Koohrang County), *Journal of geography and planning*, 17, 45, 142-162.
- Farajzadeh M., Bahoshi A., 2012, Analysis of deathly road accident in Novrooz holidays of year 2007 with climatic approach, *Geography and developments*, Volume 10, No. 26, 73-86.
- Farajzadeh M, Mohammadi O. ,2011, Groundwater vulnerability zonation using Nero fuzzy algorithm (the case study: Zanjan province), *Iranian Journal of remote sensing & GIS*, Vol. 3, No. 1, 1-19.
- Rahimi M., Farajzadeh M., Kamali Gh., 2011, Risk modeling of late spring frost damage on fruit trees, case study: apple tree. Mashhad plain. *Iranian Journal of field crop research*, Vol. 9, No. 2, 273-285.
- Farajzadeh M., Hoseini Seyed Amir, 2011, Analyzing and zoning of temporal and spatial features

of frost regions in Iran, *Journal of geography and regional development*, No. 15, 65-90.

- Farajzadeh M., Khorani A., Bazgeer S., Zeaiean P., 2010, Modeling and prediction of rainfed wheat yield in attention to phonological phases of plant growth; a case study for Kurdistan Province\_ Iran, *Physical Geography Research Quarterly*, No.76, P21-34.
- Farajzadeh M., Fathnia A., Alijani B., Zeaiean P., 2010, Assessment of climatic factors on the vegetation in the Zagros region using satellite images, *Iranian Journal of range and desert research*, Vol. 18, No.1, P 107-124.
- Farajzadeh M., Alizadeh, Kh., 2011, Spatial and temporal Analysis of dust storm in Iran, *Modares\_ Spatial Planning Journal*, Vol. 15, No. 1, P 65-85.
- Farajzadeh M., Pornasir fatemeh, 2011, the potential analysis of rice cultivation in lorestan province using geographic information system (GIS), *Journal of GIS.RS application in planning*, Vol. 1, No. 1, 35.
- Farajzadeh M., Ahadnezhad M., Amini J., 2011, The vulnerability assessment of urban housing in earthquake against (a case study: 9<sup>th</sup> district of Tehran municipality), *Urban- Regional Studies and Research Journal*, Vol. 3, No. 9, P 2-5.
- Farajzadeh M., Fathnia A., Alijani B., Zeaiean P., 2010, Assessment of the effect of climatic factors on the growth of sense pastures of Iran using AVHRR images, *Physical Geography Research Quarterly*, No.75, P1-15.
- Farajzadeh M., Fathnia A., Alijani B., Zeaiean P., 2010, Analysis of climatic threshold for growth of the pastures by remote sensing data, (case study :Zagros), *Modares\_ Spatial Planning Journal*, Vol. 14, No. 3, Tom 177-203.
- Farajzadeh M., Gholizadeh M.H., Azim Adabi Firozjai, 2010, Spatial analysis of Accidents with climatic hazards approach, case study: Karaj- Chalous Road, *Physical Geography Research Quarterly*, No. 73,5-6.
- Mobashri M., Poorbager kordi M., Farajzadeh M., Sadehi Naini, 2010, Total Precipitable water (TPW) assessment using MODIS image Radiosonde data, *Modares\_ Spatial Planning Journal*, Vol. 14, No. 1, Tom 65, 107.
- Farajzadeh M., Bahrami B., 2010, Capability of using remote sensing data to study of sandstorm, flood and heavy rainfall, *Journal of Physical Geography*, Vol. 3, No. 8, 1-17.
- Farajzadeh M., Ahmadabadi A., 2010, Assessment and zoning of tourism climate of Iran using tourism climate index (TCI), *Physical Geography Research Quarterly*, No. 71, 31-42.
- Farajzadeh M., Ahmadi M., Qaemi H., Babaeian I., 2009, An experimental model design, for analysis of perceptibility of synoptic patterns(PSP), *Modares Human Sciences ( Spatial Planning)*, Vol. 13, No. 3, 62, 1-31.
- Farajzadeh M., Kashli A., Shayan S., 2009, Analysis of rain-fed wheat yield product variability using climate change approach (case study area: Khorasan Razavi Province), *Modares Human Sciences ( Spatial Planning)*, Vol. 13, No. 3, 62, 227-257.
- Farajzadeh M., Darand M., 2009, 'Analysis of air temperature influence on mortality in Tehran', *Hakim*, Vol. 11, No. 3, pp. 34-27
- Farajzadeh M., Fathnia Amanollah, Laashkari Hassan, 2008, Tracking and frequency count rainy synoptic system in the west of Iran (Kermanshah and Ilam Provinces), *Journal of Human Science Modares*, Vol. 12, No. 2, 139-161.

- Farajzadeh M., Ghorbani Ahmad, Laashkari Hassan, 2008, The study of architecture fitting of Sanandaj city building with their bioclimatic conditions with Mahoney method, *Journal of Human Science Modares*, Vol. 12, No. 2, 161-181.
- Farajzadeh M., Rostamy M., 2004, Evaluation and allocation of urban educational center using GISs. *Journal of Human Science Modares*, 33, 22-29.
- Farajzadeh, M., Karimy J., 2004, Analysis of spatial patterns of archeological sites in Mianab Shoshtar using remote sensing and GIS techniques, *Journal of Human science Modares*, 40, 32-3-41.
- Farajzadeh M., Karamy, T., 2004, Land use Planning Using Remote Sensing and GIS in Khorramabad Area-Iran, *Journal of Researches in Geography*, 47, 24-32. (In Persian)
- Farajzadeh M., Sarvar H., 2003, Management and allocation of educational center using Geographic Information System, case study: No. 7 educational region of Tehran, *Journal of Geographical Research*, 67, 34-42.
- Farajzadeh, M., 2002, The Estimate of Flood volume in Drainage basins Based on Morphometric Data, Case study: Zohreh & Khyrabad Basins in Iran, *Journal of Kavoshnameh, Yazd University*, 3, 14-21.
- Babaie O., Farajzadeh M., 2002, Patterns of Spatial and Temporal Variations of Rainfall in Iran, *Journal of Human Sciences Modares, Tarbiat Modares University*, (6) 4, 28-36.
- Farajzadeh M., Taklo Bigash A., 2001, Agroclimatic Zoning Using GIS in Hamadan Province, *Journal of Geographical Researches, Tehran University*, 42, 16-27.
- Farajzadeh M., Ganavaty E., 2000, Physiographic Zoning Using Factor Analysis Methods in Drainage Basins, *Journal of Humanities of Tarbiat Moalem University*, 30 & 31, 34-37.
- Farajzadeh M., E. Sobhany, 1998, Soil Erosion Zonation Based on Modified PSIAC Model In Aglaghanchai Basin using RS and GIS, *Journal of Modares*, 7, 35-44
- Farajzadeh M., Salajegeh E., 1998, The Study Of Ground Water Potential In Dehloran Plain using RS and GIS. *Modares*, 5, 39-48.
- Farajzadeh M., 1997, Probability Forecasting of Drought In Iran, *Journal of Modares, Tarbiat Modares University*, 4, 55-68.
- Farajzadeh M., A. Movahed Danesh, H. Gaemy, 1995, Drought in Iran, *Journal of Agricultural Science, Tabriz University*, 3,4, 32-62.
- Farajzadeh M. Karimpanah R., 1994, Possibility study of ecotourism development zones in Kurdistan province using geographic information system (GIS), *Physical Geography research quarterly*, 65, 51-35.
- Farajzadeh M., Fallah M., 1994, Assessing the effects of land use and land cover change on the flood regime of Tajan Basin using remote sensing technique, *Geographical research quarterly*, 65, 105-89.
- Moradi H., Rrajabi M., Farajzadeh M., 1997, Analysis trend and spatial characteristics of drought intensity in Fars province, *Iranian Journal of range and desert research*, 14, 1, 109-97.
- Masoomy Marzyeh, Farajzadeh Manuchehr, Spatial analysis of public libraries in No. 12 district of Tehran using GIS, *Modares*, No. 48, pp. 235-213.

## PAPER PRESENTED IN CONGRESSES AND SEMINARS

- Farajzadeh Manuchehr, 2024, The effect of climate change on thermal stress; case study: Tehran Meteropolitan, Iran, 10<sup>th</sup> World Confecence on Medical and Health Science, Ezmir, Turkey.
- Farajzadeh Manuchehr, Ghavidel Rahimi, Hossinpanhi Nahid, 2024, Analysis of the effects of precipitation and temperature changes on rice yield in northern provinces of iran, Global Conference on Weather Forecast & Climate Change, Virtual event.
- Ghasemifar Elham, Jorge Eiras-Barca, Iago Algarra, Alexandre M. Ramos, Manuchehr Farajzadeh, 2020, Raquel Nieto and Luis Gimeno, A Preliminary Study of Winter Atmospheric River's Precipitation Characteristics Using Satellite Data over Galicia (NW Spain), SCIforum Conference.
- Farajzadeh Manuchehr, Amir Gandomkar, Hamideh Dalaei, 2017, Analysis of urban vulnerability from extreme precipitation indices over Iran (1981-2010), { [HYPERLINK "http://www.atmosfer.itu.edu.tr/atmos2017/en/home/"](http://www.atmosfer.itu.edu.tr/atmos2017/en/home/) \o "8th Atmospheric Sciences Symposium – ATMOS 2017" }, Istanbul, Turkey.
- Farajzadeh Manuchehr, Ghavidel Rahimi Yousef, Ardehirhi Kalhor Mehdi, 2015, The analysis of temporal variation of ultraviolet in Iran, international geographical union regional conference, Moscow, Russia
- Farajzadeh Manuchehr, Taghilo Ali, Safa Mehran, 2013, The wind energy potential zoning using GIS and Fuzzy MCDM based approach; Study area: Zanjan Province\_ Iran, The 3th international geography symposium, Kemer Antalya, Turkey.
- Farajzadeh Manuchehr, 2011, climate change effects on human mortality in Tehran, Iran, Conference on Growing old in a changing climate, Vancouver, Canada.
- Farajzadeh Manuchehr, Basirat Frogh, 2008,' Susceptibility zonation of geological formation against earthquake energy using GIS; case study: Shiraz area\_ Iran', Geoinformation technology for natural disaster management and rehabilitation, pp52-55, Thailand.
- Farajzadeh Manuchehr, Nikegbal M., Rafati S., Adab H., 2008, Meteorological Drought monitoring based on an efficient index using geostatistical analysis in Ghre Aghaj watershed\_ Iran, First International Conference on water crises Zaboul, Iran.
- Farajzadeh Manuchehr, Mirza Bayati Reza, Rahimi Mohammad, Amiri Reza, 2007, Preparation of Saffron Cultivation Suitability Map Based on the Comparison of Different Weighting Methods in GIS Environment', Case study: Nishabour Plain, Iran, proceeding of Map Asia conference, Malaysia
- Farajzadeh, M., 2004, 'Flood Susceptibility Zonation of Drainage Basins using Remote Sensing and GIS, case study area: Gaveh rod\_ Iran, Proceeding of international symposium on Geographic Information Systems, Istanbul, Turkey.
- Farajzadeh, M., 2001, The Flood Modeling using Multiple Regression Analysis in Zohre & Khyrabad Basins, 5<sup>th</sup> International Conference of Geomorphology, Tokyo, Japan.
- Farajzadeh, M., 2000, The Estimate of Rainfall Volume using GIS in Nahavand Area, 29<sup>th</sup> International geographical Congress, Korea.

- Farajzadeh, M., 2000, Determining of Karst Development Homogenous Units using GIS in Zagros area', International symposium and field seminar on karst studies, Turkey.
- Farajzadeh, M., Sobhany E., 1988, The Estimate of Soil Erosion with MPSIAC Model Using RS and GIS in Aglaganchai basin, 27<sup>th</sup> International Symposium on Remote Sensing of Environment , Norway.
- Komakpanah A., Farajzadeh, M., 1995, Liquefaction Susceptibility Macrozonation of Iran, 5<sup>th</sup> conference of Zonation, France.

## **MASTER'S THESIS SUPERVISED**

- More than 150 Master's Thesis supervised with subject of using remote sensing and GIS techniques in climatology and environmental problems.

## **PHD THESIS SUPERVISED**

- More than 20 PhD Thesis supervised with subject of using remote sensing and GIS techniques in climatology and environmental problems.