



Mehdi mumipur

Associate Professor

College: Faculty of Marine Natural Resources

Work Experience

Dr. Mehdi Mumipour C.V.

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Educational Background:

High School Diploma: **Empirical Sciences**, Bekhradian High school - Behbahan, 1996

Bachelor of Science (BS): **Geology**, Shiraz University- Shiraz, Iran, 2002

Master of Science (MSc): **Remote Sensing and Geographic Information System (GIS)**-
University of Tabriz –Tabriz, Iran, 2004

Ph.D.: **Physical Geography – Geomorphology**, University of Tabriz –Tabriz, Iran, 2012

Master's thesis: Comparison of Two Soil Erosion Models (MPSIAC and RUSLE) Using Remote Sensing Data and GIS, Case Study of Ojan-Chay Sub-basin

Ph.D. thesis: Analysis of the role of active tectonics in evolution of drainage networks - Case study of Dinarkooh area

Full Knowledge of remote sensing and GIS softwares: **ArcGIS 10.4 and ENVI 5.1**

Research records:

Execution of 4 Academic Research Projects:

- "Extracting Geomorphometric Parameters from Digital Elevation Model (DEM) - A

Case Study of Khayiz Region, Behbahan"

- "Study of Coastal Water Quality Using Satellite Images"
- "Investigation of Changes in Soil Salinity and its Relationship to dust storm using satellite images in the Abadan and Khorramshahr districts"
- "Comparison of ASTER and Landsat 8 OLI satellite images for detection of Carbonate and Clay minerals- case study of Anaran Anticline"

Collaboration in 5 Academic Research Projects:

- "Estimating soil erosion using satellite images and GIS in the Abshirin Basin"
- "Preparation of a geological map using satellite ETM+ Landsat images and Geographic Information System (GIS)- Behbahan Case Study"
- "Simulation and Analysis of Relationships Between Rainfall-Runoff and Flood of Karun River Using HEC-RAS HEC-HMS Integrated Model and Remote Sensing"
- "Study of gardens of East Azarbaijan province using remote sensing technology"
- "Establishment of digital database of green space of Municipality of Tabriz region 8".

Teaching history:

9 years of teaching at:

- Khorramshahr University of Marine Science and Technology, Environment Department:

Undergraduate courses: "Aerial photograph interpretation", "Surveying", "Technical drawing", "sociology", "protected areas", "National parks management", "designing and engineering of national and forest parks", "fundamentals of remote sensing and GIS"

Graduate courses: "Hydrometeorology", "Preparation and interpretation of geomorphologic maps", "Environmental Remote Sensing", "Theoretical Thoughts in Geomorphology", "Surface Waters Hydrology", "Karst Hydrology", "Geomorphology of Cultural Landscapes"

- Payam-Noor University of Abadan, Department of Agriculture, course: "Geology"
- Islamic Azad University, Abadan Branch, Civil Engineering and Architecture Departments, Courses: "Mapping", "Building Materials ", "Applied Geology"
- Islamic Azad University, Ahwaz Branch, Environment Department: Courses "Cartography", "Remote Sensing and Geographic Information Systems (GIS)"
- Islamic Azad University, Behbahan Branch: Geology and Surveying Departments: "Photogeology", "Cadastre", "Photogrammetry".
- University of Applied Sciences - Dezful Center, Watershed Management Department: Courses "Remote Sensing", "Spatial Information System (GIS)".

MSc. Thesis Supervising:

- Identifying flood prone areas in Karoon river catchment (Case study: Masjed-Soleyman city)
- perioritize flood risk in hydrologic units for sediment control site selection- Case study: Pol Shah catchment
- Study of Geometric Parameters and Geomorphic Change of Mroon River bed (Behbahan District Section)
- The study of flood risk and side erosion influence on residence site selection (Karkhe river from Abdolkhan to Hamidiye)

Holding workshops:

“Image processing in ENVI”, “GIS spatial analysis”, “formulation in ENVI”.

Executive record:

The National Iranian Oil Company, Surveying Engineering Department: **GIS expert** (one year)

Dezful Bureau of Registration of Deeds and Properties: **Senior Surveyor** (one year and a half)

Arvand Free Zone Organization: **GIS Expert** (two years).

Khorramshahr University of Marine Science and Technology, **Deputy Director of Research and Postgraduate Studies** at the Faculty of Marine Natural Resources (from September, 2016- Cont.)

Khorramshahr University of Marine Science and Technology, **Director of the Environment Department** (from July 2017- Cont.)

Articles published in journals:

- Mehdi Mumipour, Mohammad H. Rezayi-Moghadam, Ali M. Khorshiddoust, 2012, “Active Tectonics Influence on Drainage Networks in Dinarkooh Region, Zagros Mountain Range, Iran”, *Geografia Fisica Dinamica Quatereria*, 35, pp.61-68
- Hadi Tahmasbinejad, Fatemeh Zakerihoseini, **Mehdi Mumipour**, Abdolreza Kaboli, Morteza Najib, 2012, Delineation of the Aquifer in the Curin Basin, South of Zahedan City, Iran, *The Open Geology Journal*, 6: 1-6
- Hadi Tahmasbinejad, Mehdi Feyzolahpour, **Mehdi Mumipour**, Fatemeh Zakerhoseini, 2012. Rainfall-runoff Simulation and Modeling of Karun River Using HEC-RAS and

HEC-HMS Models, Izeh District, Iran. Journal of Applied Sciences, 12: 1900-1908.

- Hadi Tahmasbinnejad, **Mehdi Mumipour**, Reza Kaboli, Omid Najib, 2011. Vertical Electrical Sounding (VES) Resistivity Survey Technique to Explore Groundwater in an Arid Region, Southeast Iran. Journal of Applied Sciences, 11: 3765-3774.
- Mehdi Mumipour, Hadi Tahmasbinejad, 2011, Tectonic Geomorphology setting of Khayiz anticline derived from GIS processing, Zagros Mountains, Iran, *Asian Journal of Earth Sciences*, 4: 171-182.
- Mehdi Mumipour, 2016, Geomorphometric Analysis of Maroon River by Digital Elevation Model, Journal of the Persian Gulf, 7 (23-24) :25-38
- Hadi Tahmasebi Nejad, **Mehdi Mumipour**, 2009, "Detection of Carbonate Formations Using PCA and Crosta Method by ETM+ Satellite Image in Khayiz Anticline Behbahan" Journal of Geology and Environment, Vol. 3, No. 4, pp. 49-60
- Mehdi Mumipour, 2016, Study of Coastal Water Quality with Hyperion Hyperspectral Satellite Images- Case Study: Arvandkenar Beach, Journal of Marine Science and Technology Vol. 15, No. 1, pp. 111-120
- Mehdi Mumipour, 2016, study of Neotectonic and erosion of Maroon basin with geomorphometric technique. Journal of Environmental Erosion Research. 6 (3): 33-51
- Zahra Azadivash, **Mehdi Mumipour**, 2018, Investigation of Maroon River Route Change Using Linear Directional Mean Method and its Effect on Landuse in Behbahan City, Natural Environment Risks, Vol. 7, No. 17, pp. 231- 244
- Bahareh Azami-babani, **Mehdi Mumipour**, Arash Azari, 2018, Prioritizing the Flooding risk of Hydrological Units, Case Study of Pole-Shah Basin, Geography and Development, No. 53 pp. 84-69
- Mehdi Mumipour, 2018, Investigation of temporal and spatial variations of soil salinity in Abadan city in a 24-year interval with satellite images, geography and environmental stability, Vol. 8, No. 27, pp. 47-58

Articles presented in conferences:

- The International Conference on Urban Construction in the vicinity of active faults, "Planning for development of land on or close to active faults: some guidelines for Iran" - September 2011- Tabriz (Lecture)
- Geomatics 84 conference "Estimation of soil erosion in the Ojan-Chay basin using remote sensing and GIS techniques" Tehran-May 2005 (poster)
- International Conference on Terrestrial Hazards and its Coping Strategies "Application of Geographic Information System (GIS) in Modeling Soil Erosion", Tabriz, October 2005 (Lecture)
- International Conference on Terrestrial Hazards and its Coping Strategies "Application of Landsat TM Satellite Images to Prepare Soil Erosion Map" Tabriz -

October 2005 (Poster)

- The 1st International Conference on Geoinformation Technology for Natural Disaster Management, "Soil Erosion Estimation Using Geographic Information System (GIS), Ojan Chai Catchment, Iran", Isfahan - May 2008 (Poster)
- The first Iranian applied geology congress "Geologic mapping using the ETM+ Landsat satellite images ", Mashhad, May 2007 (lecture)
- National Water Resources Management Conference "Soil erosion zonation using remote sensing techniques and GIS as a tool for flood control - A case study of the Ojan-Chay Sub-basin, Northwest Iran", Ghaemshahr- Nov, 2007 (lecture).
- National Water Resources Management Conference "Using Satellite Images and GIS to Prepare Soil Erosion Map - Case Study of Abshirin Basin" Ghaemshahr-Nov. 2007 (Poster)
- National earthquake congress and building rehabilitation titled "Using satellite images and GIS for earthquake risk zonation in Behbahan city" Behbahan- march 2007 (lecture)
- National earthquake congress and building rehabilitation "Crisis Management; A Strategic Plan to Reduce Earthquake Damages" Behbahan- march 2007 (Poster)
- 12th Annual Conference of Map Asia 2007 "Using Principal Component Analysis (PCA) for Carbonate and Clay Minerals Mapping" Malaysia-Kuala Lumpur-August 2007 (Poster)
- Map India 2005 conference "Developing a MPSIAC-GIS Soil Erosion Model", New Delhi-India-February 2005 (Poster)
- National Conference on Water Challenges in Qom province "Study of the Erosion Status and Related Environmental Issues Using the EPM Model in the Urtaso Basin" - June 2010 - Qom-Qom University (Poster)
- National Conference on Water Challenges in Qom province "Estimating runoff in mountainous areas using SCSCN and fuzzy logic" - June 2010 - Qom-Qom University (Poster)
- 14th Iranian Geological Survey Conference "Using Geographic Information System (GIS) and satellite imagery to estimate sediment content Case study: Abshirin Basin" - September 2010 - Urmia-Urmia University (lecture)
- National Geomatics 90 Conference "Using Hyperion Hyperspectral Images to Prepare Lithology Map - Case Study of Behbahan" - May 2011 - National Mapping Organization-Tehran (lecture)
- Mehdi Mumipour (2014) Estimation and monitoring of suspended sediments of Arvand River to the Persian Gulf using satellite imagery of ETM + Landsat, the first sustainable development conference on sea axis, Khorramshahr
- Mehdi Mumipour (2014) Investigation of Spectral Relationships of Hyperion Hyperion with Biomass of Algae-A Case Study of Arvand Coast waters, The First Marine Sustainable Development Conference, Khorramshahr
- Mahdi Mumipour (2014) Study of coastal waters quality using satellite images of hyper-phenomena-case study of Arvandrood entrance to Persian Gulf, the First Marine Sustainable Development Conference, Khorramshahr

- Mehdi Mumipour (2014) Extracting Geomorphometric Parameters from Digital Elevation Model (DEM) Case Study Upstream of Maroun Dam Lake, The First Marine Sustainable Development Conference, Khorramshahr
- Fatemeh Rezaei - Mehdi Mumipour (2016) Appropriate Atmospheric Correction Algorithms for Satellite Images for Marine Regions The 2nd Marine Sustainable Development Conference, Khorramshahr
- Masoumeh Sharifi - Mehdi Mumipour (2016) Dust Survey Using Satellite Images on the Coast of Khuzestan Province, The 2nd Marine Sustainable Development Conference, Khorramshahr