Curriculum Vitae

Ebrahim Omidvar, Ph.D.



Faculty Member, University of Kashan

Watershed Management Science & Engineering — Soil Erosion & Sediment

Faculty of Natural Resources and Earth Sciences, University of Kashan, Kashan, Iran

✉ ebrahimomidvar@kashanu.ac.ir

✉ ebrahimomidvar@gmail.com

◎ faculty.kashanu.ac.ir/ebrahimomidvar

66	24	29	37	12
Journal articles	ISI / JCR-indexed articles	Conference papers	Theses supervised (9 Ph.D., 28 M.Sc.)	Journals & conferences reviewed

Research Interests

Watershed hydrology & geomorphology · Soil erosion & sediment · Hazard modelling (landslide, flood, subsidence) with machine learning · Climate change & drought · Watershed resilience · Performance assessment of watershed management measures · Fractal analysis of soils and channel networks

Education

2014 — Ph.D.

Ph.D., Watershed Management Science & Engineering (Erosion and Sediment)

University of Mazandaran, Iran

Thesis: Distributed simulation of runoff, soil erosion and sediment transport in the Darabkola watershed (Mazandaran Province) using a numerical solution of the kinematic wave approximation

Defended: 3 June 2014 · Grade: 19.69/20 (excellent)

2008 — M.Sc.

M.Sc., Watershed Management Engineering

University of Mazandaran, Iran

Dissertation: Investigation of check dams effects on channels geomorphological characteristics (case study: Chehel Cheshme basin, Fars)

Completed: September 2008 · GPA: 18.61/20 · Dissertation grade: 19.81/20

2006 — B.Sc.

B.Sc., Natural Resources Engineering — Reclamation and Utilization of Desert Regions

University of Yazd, Iran

Completed: February 2006 · GPA: 17.25/20

Awards & Honors

- **First rank** in the Ph.D. entrance examination, Watershed Management Science & Engineering, University of Mazandaran 2008
- **First rank** among M.Sc. students of Watershed Management Engineering, University of Mazandaran 2008

- **Excellent student**, B.Sc. in Reclamation and Utilization of Desert Regions, University of Yazd 2006

Journal Articles

66 papers · 28 in English, 38 in Persian

Listed by year of publication, most recent first. Persian-language articles are marked "in Persian"; their titles are translated. **Omidvar** is highlighted.

2026

66 Forouzan Azarinvand, **Ebrahim Omidvar** and Hamid Gholami
Source identification and multi-index assessment of heavy-metal contamination in surface soils of the Pakal–Shazand watershed
Water and Soil Management and Modelling Scopus ISC *in Persian*

65 Saeed Alizadeh, Reza Ghazavi and **Ebrahim Omidvar**
Predicting watershed resilience in the Marvdasht Plain using a WoE-based hybrid framework
Watershed Management Researches ISC *in Persian*

64 Roya Ghahremani, **Ebrahim Omidvar** and Siamak Dokhani
Effect of mechanical and biological watershed management measures on soil-moisture changes (case study: Ab-Mahi watershed)
Extension and Development of Watershed Management ISC *in Persian*

63 Fatemeh Parakandeh Shahrezaei, Seyed Hassan Alavinia and **Ebrahim Omidvar**
Projections of future climates: exploring temperature and precipitation patterns in Iran's coastal regions with MPI-ESM1.2-HR
Journal of Earth System Science JCR Q3 Scopus

2025

62 Zohreh Zahiri Hashemabadi, Reza Ghazavi and **Ebrahim Omidvar**
Evaluating the Hydrologic Control of Check Dam Systems under Combined Climate and Land-Use Change Scenarios in a Semi-arid Watershed, Iran
Ecopersia

61 Roya Ghahremani, **Ebrahim Omidvar** and Siamak Dokhani
Effects of watershed management measures on flood characteristics in the Ab-Mahi and Chikan–Morzian watersheds, Fars Province
Watershed Management Researches ISC *in Persian*

60 Roya Ghahremani, **Ebrahim Omidvar** and Siamak Dokhani
Assessing the effect of biological measures on soil loss using a remote-sensing-based RUSLE model in the Chikan and Morzian watershed
Geographical Studies of Arid Regions ISC *in Persian*

2024

59 Fatemeh Parakandeh Shahrezaei, Seyed Hassan Alavinia and **Ebrahim Omidvar**
Assessment of future temperature and precipitation changes by downscaling general circulation models (case study: selected synoptic stations on the southern coast of Iran)
Natural Ecosystem Management Quarterly ISC *in Persian*

58 Zeinab Hajizadeh Adinehvand, **Ebrahim Omidvar** and Siamak Dokhani
Effect of spatial scale on specific discharge in the Karkheh basin
Iranian Journal of Watershed Management Science and Engineering ISC *in Persian*

57 Hamid Gholami, Mahdi Jalali, Marzieh Rezaei, **Ebrahim Omidvar** *et al.* (10 authors)
An explainable integrated machine learning model for mapping soil erosion by wind and water in a catchment with three desiccated lakes
Aeolian Research JCR Q2 Scopus

56 Seyed Mehdi Sadat Rasoul, **Ebrahim Omidvar** and Reza Ghazavi
Comparison of rainfall interception by tree species in the urban green space of the Hashtgerd watershed
Iranian Journal of Range and Watershed Management ISC *in Persian*

55 Maryam Nourizadeh, Hamed Naghavi and **Ebrahim Omidvar**

The effect of land use and land cover changes on soil erosion in semi-arid areas using cloud-based google earth engine platform and GIS-based RUSLE model

Natural Hazards JCR Q2 Scopus

2023

54 Maryam Aghaei, Siamak Dokhani and **Ebrahim Omidvar**

Determining the importance of factors in siting in-situ rainwater harvesting in the Tajareh watershed, Kashan

Journal of Applied Researches in Geographical Sciences ISC *in Persian*

53 Reza Ghazavi and **Ebrahim Omidvar**

Evaluating the effects of watershed check dams on peak discharge and flood volume

Technical Strategies in Water Systems *in Persian*

52 Razieh Izanloo, Siamak Dokhani and **Ebrahim Omidvar**

Analysis of the effect of check dams on the flow duration curve of the Zarcheshmeh River, Hunjan basin, Isfahan Province

Hydrogeomorphology ISC *in Persian*

51 Zeinab Hajizadeh Adinehvand, **Ebrahim Omidvar** and Hoda Ghasemieh

Effect of alfalfa vegetation cover on runoff generation at erosion-plot scale using a rainfall simulator

Water and Soil Management and Modelling ISC *in Persian*

50 Reza Ghazavi, Zahra Farahnakian, Siamak Dokhani and **Ebrahim Omidvar**

Effect of climate change on temperature, precipitation and intensity–duration–frequency curves in arid regions (case study: Kashan watershed)

Water and Soil Management and Modelling ISC *in Persian*

49 Emad Fahim, Reza Ghazavi, Hoda Ghasemieh and **Ebrahim Omidvar**

Improving intensity–duration–frequency curves using genetic algorithms and particle swarm optimization in the Lake Urmia watershed

Desert Ecosystem Engineering Journal ISC *in Persian*

48 Narges Saghazadeh, Hoda Ghasemieh, **Ebrahim Omidvar** and Yaser Maghsoudi

Performance evaluation of bivariate models in determining land-subsidence susceptibility of the Kashan Plain aquifer

Geography and Environmental Hazards ISC *in Persian*

47 Danial Sayyad, **Ebrahim Omidvar** and Zahra Nasserian Asl

Comparative evaluation of frequency ratio and Shannon entropy models for landslide susceptibility zonation (case study: Middle Tajan watershed)

Quantitative Geomorphological Researches ISC *in Persian*

2022

46 Maryam Aghaei, Siamak Dokhani and **Ebrahim Omidvar**

Rainwater-harvesting site selection using GIS-based multiple regression methods, case study: Tajareh watershed

Environmental Research and Technology ISC *in Persian*

45 Khabat Khosravi, Ali Golkarian, **Ebrahim Omidvar**, Javad Hatamiafkoueieh and Masoud Shirali

Snow Water Equivalent Prediction in a Mountainous Area using Hybrid Bagging Machine Learning Approaches

Acta Geophysica JCR Q2 Scopus

44 Mahdi Jalali, Hamid Gholami, Marzieh Rezaei and **Ebrahim Omidvar**

Integrated modeling of water and wind erosion using machine-learning methods

Watershed Management Researches ISC *in Persian*

43 Hadiseh Jeyhooni, Ali Najafinejad, Amir Sadoddin and **Ebrahim Omidvar**

Determining factors affecting watershed residents' participation in watershed management projects and analyzing their relationships (case study: Bozorg-e Naein River basin, Isfahan Province)

Integrated Watershed Management *in Persian*

42 Khabat Khosravi, Ali Golkarian, Rahim Barzegar, **Ebrahim Omidvar** *et al.* (8 authors)
Multi-step-ahead soil temperature forecasting at multiple-depth based on meteorological data: Integrating resampling algorithms and machine learning models
Pedosphere JCR Q1 Scopus

41 Mahdi Panahi, Khabat Khosravi, Ali Golkarian, **Ebrahim Omidvar** *et al.* (13 authors)
A country-wide assessment of Iran
Geocarto International JCR Q2 Scopus

40 Danial Sayyad, Reza Ghazavi and **Ebrahim Omidvar**
Proposing management strategies for urban infrastructure against floods from a passive-defense perspective using SWOT and QSPM (case study: Kashan city)
Water and Soil Management and Modelling ISC *in Persian*

2021

39 Peyman Yariyan, **Ebrahim Omidvar**, Hamidreza Karami, Artemi Cerdà, Quoc Bao Pham and John P.Tiefenbacher
Evaluating novel hybrid models based on GIS for snow avalanche susceptibility mapping: A comparative study
Cold Regions Science and Technology JCR Q2 Scopus

38 Danial Sayyad, Reza Ghazavi and **Ebrahim Omidvar**
Flood hazard mapping using the HEC-RAS hydraulic model and RAS Mapper (case study: Sukcham River, Kashan)
Geography and Environmental Hazards ISC *in Persian*

37 Peyman Yariyan, **Ebrahim Omidvar**, Foad Minaei, Rahim Ali Abaspour and John P. Tiefenbacher
An optimization on machine learning algorithms for mapping snow avalanche susceptibility
Natural Hazards JCR Q3 Scopus

36 Fatemeh Karimi, Reza Ghazavi and **Ebrahim Omidvar**
Effect of gypsum amount and particle size on its performance in reclaiming saline and sodic soils
Quarterly Journal of Environmental Erosion Researches ISC *in Persian*

35 Mahdi Panahi, Khabat Khosravi, Sajjad Ahmad, **Ebrahim Omidvar** *et al.* (8 authors)
Cumulative infiltration and infiltration rate prediction using optimized deep learning algorithms: A study in Western Iran
Journal of Hydrology: Regional Studies JCR Q1 Scopus

34 Danial Sayyad, Reza Ghazavi and **Ebrahim Omidvar**
Evaluating the SWAT model in estimating daily discharge of ungauged basins using a regionalization approach in arid regions
Hydrogeomorphology ISC *in Persian*

33 Peyman Yariyan, Mohammad Taghi Avand, **Ebrahim Omidvar**, Quoc Bao Pham, Nguyen Thi Thuy Linh and John P. Tiefenbacher
Optimization of Statistical and Machines Learning Hybrid Models for Groundwater Potential Mapping
Geocarto International JCR Q2 Scopus

2020

32 Mahdi Panahi, Abolfazl Jafari, Ataollah Shirzadi, **Ebrahim Omidvar** *et al.* (8 authors)
Deep learning neural networks for spatially explicit prediction of flash flood probability
Geoscience Frontiers JCR Q1 Scopus

31 **Ebrahim Omidvar**
Fractal analysis of the infiltration curve and soil particle size in a semi-humid watershed
European Journal of Soil Science JCR Q1 Scopus

30 Zohreh Zahiri Hashemabadi, Reza Ghazavi, **Ebrahim Omidvar** and Aliakbar Davoudi Rad
Comparison of the LARS-WG and SDSM downscaling models in predicting temperature and precipitation changes under RCP scenarios
Geographical Studies of Arid Regions ISC *in Persian*

29 Behnam Farid-Gigloo and **Ebrahim Omidvar**

Evaluation of the EGEM model in predicting ephemeral gully erosion, case study: Ghoorichay watershed, Ardabil Province

Journal of Watershed Engineering and Management Scopus ISC *in Persian*

28 Viet-Ha Nhu, Saeed Janizadeh, Mohammad Taghi Avand, **Ebrahim Omidvar** *et al.* (14 authors)

GIS-Based Gully Erosion Susceptibility Mapping: A Comparison of Computational Ensemble Data Mining Models

Applied Sciences JCR Q3 Scopus

27 Himan Shahabi, Ataollah Shirzadi, Keyvan Ghaderi, **Ebrahim Omidvar** *et al.* (17 authors)

Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier

Remote Sensing JCR Q1 Scopus

2019

26 Binh Thai Pham, Indra Prakash, Wei Chen, **Ebrahim Omidvar** *et al.* (8 authors)

A Novel Intelligence Approach of a Sequential Minimal Optimization-Based Support Vector Machine for Landslide Susceptibility Mapping

Sustainability JCR Q3 Scopus

25 Reza Ghazavi, **Ebrahim Omidvar** and Hadiseh Jeyhooni

Investigation of Zeolite Superabsorbent Effect on Soil Water Retention Curves in the Loamy and Sandy Textures

Journal of Water and Soil Science (Sci. & Technol. Agric. & Natur. Resour.) ISC *in Persian*

24 Dieu Tien Bui, Ataollah Shirzadi, Himan Shahabi, **Ebrahim Omidvar** *et al.* (11 authors)

New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed

Forests JCR Q1 Scopus

23 Binh Thai Pham, Ataollah Shirzadi, Himan Shahabi, **Ebrahim Omidvar** *et al.* (10 authors)

Landslide Susceptibility Assessment by Novel Hybrid Machine Learning Algorithms

Sustainability JCR Q3 Scopus

22 **Ebrahim Omidvar**, Zeinab Hajizadeh Adinehvand and Hoda Ghasemieh

Sediment yield, runo ff and hydraulic characteristics in straw and rock fragment covers

Soil and Tillage Research JCR Q1 Scopus

21 Phong Tung Nguyen, Tran Thi Tuyen, Ataollah Shirzadi, **Ebrahim Omidvar** *et al.* (14 authors)

Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction

Applied Sciences JCR Q3 Scopus

20 Abdollah Pirnia, Hamid Darabi, Bahram Choubin, **Ebrahim Omidvar**, Charles Onyutha and Ali Torabi Haghighi

Contribution of climatic variability and human activities to stream flow changes in the Haraz River basin, northern Iran

Journal of Hydro-environment Research JCR Q3 Scopus

19 Dieu Tien Bui, Ataollah Shirzadi, Himan Shahabi, **Ebrahim Omidvar** *et al.* (14 authors)

A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran)

Sensors JCR Q2 Scopus

18 Dieu Tien Bui, Himan Shahabi, **Ebrahim Omidvar** *et al.* (15 authors)

Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm

Remote Sensing JCR Q1 Scopus

17 **Ebrahim Omidvar** and Zahra Nazeri Tahroudi

Evaluation and Prediction of Meteorological Drought Conditions Using Linear Time-Series and Genetic Programming Models

Journal of Earth System Science JCR Q4 Scopus

16 Zahra Barati, **Ebrahim Omidvar** and Ataollah Shirzadi

Spatial prediction of shallow landslides using statistical and machine-learning models (case study: Sorkhoon basin)

Iranian Journal of Range and Watershed Management ISC *in Persian*

15 **Ebrahim Omidvar**, Maryam Rezaei and Abdollah Pirnia

Performance Evaluation of Artificial Neural Network Models for Downscaling and Predicting of Climate Variables

Journal of Watershed Management Research ISC SID *in Persian*

2018

14 Reza Ghazavi, Meysam Nadimi Shahraki, **Ebrahim Omidvar** and Rasoul Imani

Future Climate Change Effect on Discharge Variation of Heroochay River Using SWAT and LARS-WG Models

Hydrogeomorphology ISC *in Persian*

13 Reza Ghazavi, **Ebrahim Omidvar** and Farzaneh Fadaei

Effects of three super-absorbents application (A200, Perlites and Zeolite) on soil erosion and sediments of saturated soils

Iranian Water Research Journal ISC *in Persian*

2017

12 Maziar Mohammadi, Moghadaseh Fallah, Ataollah Kavian, Leila Gholami and **Ebrahim Omidvar**

The Application of RUSLE Model in Spatial Distribution Determination of Soil Loss Hazard

Ecohydrology ISC SID *in Persian*

2016

11 Moghadaseh Fallah, Ataollah Kavian and **Ebrahim Omidvar**

Prioritization of Haraz sub-watersheds in order to Soil and Water Conservation Practices Based on Morphometric and Land Use Characteristics

Journal of Water and Soil Science (Sci. & Technol. Agric. & Natur. Resour.) ISC SID *in Persian*

10 Moghadaseh Fallah, Ataollah Kavian and **Ebrahim Omidvar**

Watershed prioritization in order to implement soil and water conservation practices

Environmental Earth Sciences ISI

9 **Ebrahim Omidvar**, Ataollah Kavian, Karim Solaimani and Somayeh Mashari

Investigation of Applicability of Soil Map Units to Estimate the Spatial Variability of Soil Erodibility

Desert Ecosystem Engineering Journal ISC SID *in Persian*

2014

8 **Ebrahim Omidvar** and Ataollah Kavian

Investigation of possibility of landslide number and area estimation using determination area and volume frequency distribution (case study: Mazandaran province)

Iranian Journal of Range and Watershed Management *in Persian*

7 **Ebrahim Omidvar**, Ataollah Kavian and Karim Solaimani

Identification of the Best Infiltration Model in Order to Investigation of Spatial Variability of Infiltration Parameters (case study: Darabkola River Basin)

Quarterly Journal of Environmental Erosion Researches *in Persian*

6 Somayeh Mashari Eshghabad and **Ebrahim Omidvar and Karim Solaimani**

Efficiency of Some Meteorological Drought Indices in Different Time Scales (Case Study: Tajan Basin, Iran)

Ecopersia

2012

5 Somayeh Mashari, Ahmad Nohegar and **Ebrahim Omidvar**

Runoff simulation using geomorphological instantaneous unit hydrograph (GIUH) (case study: Bar basin, Khorasan Razavi)

Quarterly Journal of Environmental Erosion Researches *in Persian*

4 Somayeh Mashari eshghabad and **Karim Solaimani & Ebrahim Omidvar**

Landslide Susceptibility Mapping Using Multiple Regression and GIS Tools in Tajan Basin, North of Iran

Environment and Natural Resources Research

3 Ataollah Hoseini, **Ebrahim Omidvar**, Hamed Naghavi and Aydin Parsakhoo
Estimation of Sediment Yield from Forest Roads Using SEDMODL
Iranian Journal of Wood and Forest Science and Technology *in Persian*

2011

2 **Ebrahim Omidvar** and Ataollah Kavian
Landslide volume estimation based on landslide area at a regional scale (case study: Mazandaran province)
Iranian Journal of Range and Watershed Management *in Persian*

2008

1 Karim Soilaimani, **Ebrahim Omidvar** and Ataollah Kelarestaghi
Investigation of Check dams Effects on Channels Geomorphological Characteristic (case study: Chehel Cheshme Basin)
Journal of Biological Sciences

Conference Papers

29 papers

2025

29 Sahar Gholizadeh Tehrani, Reza Ghazavi and **Ebrahim Omidvar**
Application of artificial intelligence in predicting the interaction of drought and land subsidence in the Zayandeh-Rud watershed (east of Isfahan)
20th National Conference on Watershed Management Science and Engineering of Iran (Smart Watershed Management) — Razi University, Kermanshah
National *in Persian*

2024

28 Roya Ahmadi, Hoda Ghasemieh and **Ebrahim Omidvar**
Temporal changes of meteorological drought in the Qom–Kahak Plain
1st National Conference on Natural Resources Governance and Futures Studies for Sustainable Development — Lorestan
National *in Persian*

27 Mohsen Moinzadeh, Hoda Ghasemieh and **Ebrahim Omidvar**
Assessing the effect of climate change on monthly and annual precipitation (case study: Natanz station)
1st National Conference on Natural Resources Governance and Futures Studies for Sustainable Development — Lorestan
National *in Persian*

26 Mohsen Moinzadeh, Hoda Ghasemieh and **Ebrahim Omidvar**
Assessing the effect of climate change on SPI meteorological drought at the Kashan synoptic station
18th National Conference on Watershed Management Science and Engineering of Iran — Kashan National
in Persian

2023

25 Reza Ghazavi and **Ebrahim Omidvar**
Evaluating the hydrological effects of check dams built in the upstream watershed of urban areas (case study: Khaveh watershed)
17th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Sustainable Food Security) — University of Jiroft
National *in Persian*

24 Zeinab Hajizadeh Adinehvand, **Ebrahim Omidvar** and Hoda Ghasemieh
Effect of vegetation cover on runoff generation in laboratory plots
17th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Sustainable Food Security) — University of Jiroft
National *in Persian*

23 **Ebrahim Omidvar** and Reza Ghazavi

Economic evaluation of mechanical watershed management measures (case study: Khaveh watershed, Delijan)

17th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Sustainable Food Security) — University of Jiroft

National *in Persian*

2021

22 Reza Ghazavi, **Ebrahim Omidvar** and Fatemeh Karimi

The Effects of Gypsum Particle Size on Physico-Chemical Properties of Saline and Sodic Soils

3rd International Youth Forum on Soil and Water Conservation (3rd IYFSWC) — Tarbiat Modares University

International Abstract

2020

21 Roya Ghahremani and **Ebrahim Omidvar**

A review of rainwater-harvesting methods with emphasis on their advantages and disadvantages

9th National Conference on Catchment-Surface Systems (Rainwater Harvesting) — University of Tabriz National

in Persian

2019

20 Fatemeh Karimi Zafarabadi, Reza Ghazavi and **Ebrahim Omidvar**

Evaluation of the quality of drainage water from modified soils using gypsum

14th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Integrated Water and Soil Resources Management) — Urmia University

National *in Persian*

19 **Ebrahim Omidvar**

Application of Fractal Dimension of Soil Particles as a Predictive Indicator of Erodibility

14th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Integrated Water and Soil Resources Management) — Urmia University

National *in Persian*

18 Atefeh Sattarvand, **Ebrahim Omidvar** and Ataollah Shirzadi

Investigating the Effect of Soil Physical Properties on Rill Erosion

14th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Integrated Water and Soil Resources Management) — Urmia University

National *in Persian*

2017

17 Zeinab Hajizadeh Adinehvand, **Ebrahim Omidvar** and Hoda Ghasemieh

Evaluation of the effect of rock fragment cover on runoff in experimental plots under rainfall simulation

12th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Environmental Crises) — Malayer University

National *in Persian*

16 **Ebrahim Omidvar**

Investigating the Impact of Aspect on Landslide Geometric Characteristics

12th National Conference on Watershed Management Science and Engineering of Iran (Watershed Management and Environmental Crises) — Malayer University

National *in Persian*

2016

15 Maryam Aghaei, Siamak Dokhani and **Ebrahim Omidvar**

Effect of Physical Characteristics of Watershed on Area-based Discharges in siting rainwater-harvesting systems

1st International Conference on Water, Environment and Sustainable Development — University of Mohaghegh Ardabili

International *in Persian*

14 Zahra Shabani, Karim Solaimani and **Ebrahim Omidvar**

Landslide Susceptibility Zonation Using AHP (Case Study: Kharestan Basin, Eqlid County)

11th National Conference on Watershed Management Science and Engineering of Iran — Yasouj University

National *in Persian*

13 **Ebrahim Omidvar** and Ataollah Kavian

Investigating the Variations of Infiltration Parameters in Different Land Uses

11th National Conference on Watershed Management Science and Engineering of Iran — Yasouj University

National *in Persian*

2015

12 Moghadaseh Fallah, Ataollah Kavian and **Ebrahim Omidvar**

Watershed Prioritization Based on Morphometric Parameters in order to Soil and Water Conservation (Haraz sub-watersheds)

2nd National Conference on Climate Change and Sustainable Development Engineering in Agriculture and Natural Resources — Shahid Beheshti University, Tehran

National *in Persian*

11 Moghadaseh Fallah, Ataollah Kavian and **Ebrahim Omidvar**

Erosion Hazard Zonation Using RUSLE Model in Haraz Basin

2nd National Conference on Climate Change and Sustainable Development Engineering in Agriculture and Natural Resources — Shahid Beheshti University, Tehran

National *in Persian*

10 Mohammad Ali Hadian Amri, Mahmoud Habibnejad Roshan and **Ebrahim Omidvar**

Evaluation of different statistical distributions in estimating maximum flood discharge with different return periods in the Tajan watershed

6th National Conference on Watershed Management of Iran and 4th National Conference on Erosion and Sediment — Tarbiat Modares University, Noor

National *in Persian*

2012

9 Ali Koolaeian, **Ebrahim Omidvar** and Ali Gholami Sefidkouhi

Investigation of the meteorological drought trend in Mazandaran Province using three drought indices and the Mann–Kendall test

3rd International Conference on Climate Change and Dendrochronology — Sari International *in Persian*

2009

8 Abdollah Pirnia, Ali Eshagh Teimoori, **Ebrahim Omidvar** and Karim Solaimani

Investigation of the general relationship between temperature and precipitation changes in Mazandaran Province and its comparison with climate changes at hemispheric and global scales

5th National Conference on Watershed Management of Iran — Gorgan National *in Persian*

7 **Ebrahim Omidvar**, Karim Solaimani and Ataollah Kavian

Assessment of changes in longitudinal and cross profiles of channels due to construction of check dams (case study: Chehel Cheshme basin, Fars)

5th National Conference on Watershed Management of Iran — Gorgan National *in Persian*

6 **Ebrahim Omidvar**, Somayeh Mashari, Karim Solaimani and Abdollah Pirnia

Nomination of the most suitable precipitation series for some precipitation variables (case study: Rig-Cheshme station, Mazandaran Province)

5th National Conference on Watershed Management of Iran — Gorgan National *in Persian*

2008

5 **Ebrahim Omidvar**, Karim Solaimani, Mahdi Jalali and Hamzeh Mojadadi

Nomination of the suitable drought index for annual time series (case study: Tajan basin)

1st International Conference on Climate Change and Dendrochronology — Sari International *in Persian*

4 **Ebrahim Omidvar** and Abdollah Pirnia

Investigation of the drought trend in the Tajan basin in annual time series using Mann–Kendall and linear regression methods

1st International Conference on Climate Change and Dendrochronology — Sari International *in Persian*

3 **Ebrahim Omidvar** and Karim Solaimani

Investigation of meteorological drought in the Tajan watershed, Mazandaran Province

National Conference on Coping with Natural Disasters — Tehran National *in Persian*

2 Mahdi Jalali, Karim Solaimani, Hamzeh Mojadadi and **Ebrahim Omidvar**

Estimation of suspended sediment load at the Abeloo hydrometric station using an artificial neural network

4th National Conference on Watershed Management Science and Engineering of Iran — Tehran National *in Persian*

1 **Ebrahim Omidvar**, Kaveh Jarareh and Karim Solaimani

Investigation of hydrological changes in the Tajan watershed, Mazandaran Province

1st International Conference on Environmental Changes of the Caspian Region — Babolsar International *in Persian*

Research Projects & Studies

Research projects

2018–2019	**Fractal analysis of soil hydro-physical and chemical properties under land-use effect** Principal investigator
2017–2019	**Effects of different gypsum treatments and particle sizes on physico-chemical properties of saline and sodic soils** Co-investigator PI: Reza Ghazavi
Univ. of Mazandaran	**Assessment of different statistical distributions in peak discharge estimation with different return periods** Co-investigator
Univ. of Mazandaran	**Role of climate change in the yield of some strategic crops in Mazandaran Province** Co-investigator

Applied studies

2022–2023	**Flood management study of the Matinabad watershed, Natanz County** Team member Lead: Siamak Dokhani
2020	**Detailed design studies for flood control and earth-dam siting and design, Ab-Shirin watershed** Team member Lead: Siamak Dokhani
—	**Climatological and meteorological studies of the Abbasabad–Kamfirooz area, Fars Province**
—	**Climatological and meteorological studies of the Ghavamabad–Zarch watershed, Yazd Province**

Teaching Experience

Ph.D. — Watershed Management Science & Engineering, Univ. of Kashan

- Advanced Geomorphology 2016–2019
- Sediment Yield of Geological Formations 2017–2019
- Quantitative Geomorphology 2018–2019

M.Sc. — Watershed Management, Univ. of Kashan

- Erosion and Sediment Models 2012–
- Quaternary Formations 2012–2018
- Snow and Avalanche 2015–2018
- Research Methods 2016–2018
- Landslide 2018–2019
- River Engineering; Applied Sedimentology

B.Sc. — Range & Watershed Management, Univ. of Mazandaran / Kashan

- Applied Hydrology 2011
- Climatology and Meteorology 2011
- Soil and Water Conservation 2011
- Applied Geomorphology

Years are as recorded in the previous CV (2019); course lists should be updated.

Thesis Supervision & Advising

37 completed theses

Ph.D. dissertations 9

9 Sediment source fingerprinting to evaluate the performance of erosion and sediment-transport models (case study: Pakal watershed, Markazi Province)
Forouzan Azarinvand · defended 2026

8 Modeling hydro-social resilience in arid and semi-arid regions (case study: Boushkan watershed, Bushehr Province)
Hamid Mohaghegh-Pour · defended 2026

7 Predicting land-subsidence hazard with a groundwater-resilience approach in urban areas (case study: Marvdasht Plain)
Saeed Alizadeh · defended 2026

6 Evaluation of mechanical and structural watershed management projects (case study: Doroodzan Dam watershed)
Roya Ghahremani · defended 2024

5 Effects of spatial and temporal scales on discharge, sediment and water quality of watersheds
Zeinab Hajizadeh Adinehvand · defended 2024

4 Optimization of intensity–duration–frequency relationships using computational optimization algorithms
Emad Fahim · defended 2023

3 Assessing the effects of climatic factors, land-use change and watershed management measures on surface runoff (case study: Gharehkahriz and Gardoo watersheds)
Zohreh Zahiri Hashemabadi · defended 2023

2 Determining factors affecting land subsidence with emphasis on groundwater abstraction (case study: Kashan Plain)
Narges Saghazadeh · defended 2022

1 Flood-generation assessment of upstream basins and risk-management analysis of urban infrastructure (case study: Kashan city)
Danial Sayyad · defended 2021

M.Sc. theses 28

28 Assessment of groundwater vulnerability potential to identify suitable aquifer recharge sites in urban watersheds
Shahrzad Rahimi Varposhti · defended 2026

27 Evaluating the effect of groundwater abstraction on land subsidence in the Varamin Plain
Reza Farahangiz · defended 2025

26 Spatio-temporal analysis of extreme precipitation and temperature indices to detect climate-change impacts (case study: Lake Namak basin)
Pouria Jassas · defended 2025

25 Flood-generation potential of sub-watersheds and identification of flood-source areas (case study: part of the Kashan watershed)
Mahdi Mahro · defended 2024

24 Predicting future climate of selected synoptic stations in northern and southern Iran by statistical downscaling of general circulation models
Fatemeh Parakandeh Shahrezaei · defended 2024

23 Effect of socio-economic factors on land-use change (case study: Barghan basin)
Nasrin Yadollahi · defended 2024

22 Comparison of annual soil-erosion estimates using the RUSLE and SUSLE models (case study: Sakaneh watershed, Aligudarz)
Fatemeh Janani · defended 2023

21 Performance evaluation of watershed management activities in the Ardestan watershed using a qualitative method
Farshid Askari Ardestani · defended 2023

20 Awareness and participation of local stakeholders in natural-resources projects (case study: selected watersheds of Kashan and Shahrekord)
Maryam Ahmadi Sarmouri · defended 2023

19 Effect of geo-environmental factors on drainage networks using fractal analysis (case study: mountainous part of the Kashan basin)
Abbas Rasoulzadeh Bidgoli · defended 2020

18 Effect of rainfall intensity and amount on interception of different tree species in urban green space
Seyed Mehdi Sadat Rasoul · defended 2019

17 Assessing rill-erosion susceptibility using data-mining methods (case study: Ghebleh sub-watershed, Kashan watershed)
Atefeh Sattarvand · defended 2019

16 Effect of gypsum size and amount and zeolite superabsorbent on the water required for leaching saline and sodic soils and on drainage-water quality
Fatemeh Karimi Zafarabadi · defended 2019

15 Assessment of temporal and spatial drought to explore groundwater potential (case study: Qom–Kahak Plain)
Roya Ahmadi · defended 2019

14 Assessing climate-change impacts on meteorological drought under RCP scenarios (case study: selected stations in Isfahan Province)
Mohsen Moinzadeh · defended 2019

13 Effect of different surface coverings on the quality of water collected from roofs
Mahdi Pakbaz Falavarjani · defended 2019

12 Awareness and acceptance of flood-warning systems among watershed residents (case study: Kashan watersheds)
Seyed Amir Seyedbagheri · defended 2018

11 Temporal changes in sediment concentration and discharge of the Shazand River under land-use change and drought
Negin Oubari · defended 2018

10 Performance evaluation of data-mining methods for landslide susceptibility mapping (case study: part of the Middle Karun basin)
Zahra Barati · defended 2018

9 Spatial variation of intrinsic and fractal properties of soil in the Kashan Plain
Farzaneh Nozarian · defended 2018

8 Effect of different soil coverings on runoff hydraulic characteristics and sediment yield under artificial rainfall
Zeinab Hajizadeh Adinehvand · defended 2017

7 Evaluation of runoff, sediment and nutrient losses under different rainfall-simulation conditions
Shadab Hosseinpour · defended 2017

6 Effect of superabsorbents on soil water-retention curve coefficients of sandy and loamy soils
Hadiseh Jeyhooni · defended 2017

5 Evaluating the effect of climate fluctuations on river runoff, sediment and water quality
Meysam Nadimi Shahraki · defended 2017

4 Determining the importance of information layers in siting rainwater harvesting using multivariate regression in the Tajareh watershed
Maryam Aghaei · defended 2016

3 Effect of model complexity levels on the performance of hydrological models (case study: Hanifaghan watershed)
Zahra Heshmatianzadeh · defended 2016

2 Effect of irrigation-water quality on the performance of superabsorbents in soil amendment
Farzaneh Fadaei · defended 2016

1 Simulation of river discharge using intelligent models and time series (case study: Kashkan watershed)
Zahra Pourzarin Chagha · defended 2016

Peer-Review Service

Desert Ecosystem Engineering Journal
University of Kashan

Iranian Journal of Watershed Management Science and Engineering
Iranian Association of Watershed Management Science and Engineering

Journal of Watershed Management Research
Sari Agricultural Sciences and Natural Resources University

Applied Soil Research
Urmia University

Water Resources Research (Iran)
Iranian Water Resources Science and Engineering Association

Extension and Development of Watershed Management (scientific–extension)
Iranian Association of Watershed Management Science and Engineering

Remote Sensing and GIS in Natural Resources
Iranian Rangeland Society and Islamic Azad University, Bushehr

Ecohydrology
University of Tehran

Geography and Environmental Hazards
Ferdowsi University of Mashhad

Water and Irrigation Engineering
Shahrekord University

Watershed Management Researches
Agricultural Research, Education and Extension Organization (AREEO)

Proceedings of the 12th National Conference on Watershed Management Science and Engineering of Iran
Iranian Association of Watershed Management Science and Engineering and Malayer University

Workshops Attended

- LARS-WG model and its application in long-term climate prediction — Dr. Babaei & Dr. Nokhandan, Sari, May 2010
- Artificial neural networks in environmental science — Sari, 2011
- Hydroclimate and hydrometeorological modeling: requirements, limitations and case studies for arid regions — Prof. Soroosh Sorooshian & Dr. Thomas Pagano, Tehran, 7 February 2012

Software Skills

GIS
ArcGIS, ArcView GIS, SAGA GIS

Remote sensing
ENVI, ERDAS IMAGINE

Hydrology
HEC-HMS, SMADA, HYFA, DIP (Drought Indices Package)

Erosion & sediment
LISEM, WEPP, WATEM-SEDEM, EUROSEM

Statistics
STATISTICA, SPSS, MINITAB, EasyFit, XLSTAT

Surveying & mapping
GS+, Surfer

Professional Memberships

- Iranian Association of Watershed Management Science and Engineering
- Agriculture and Natural Resources Engineering Organization of Iran