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Educations:

PhD: Water Resources Engineering, (GPA: 19.65/20), University of Tabriz, March 2013.

The first order in the admission exam which carried out by University of Tabriz and the first rank student among PhD students of Faculty of Agriculture of University of Tabriz.

Dissertation Title: Application of Copula Functions for Droughts Droughts Analysis in Northwest of Iran

MSc, Hydraulic Structures, Dept. Water Engineering, Shahid Bahonar University of Kerman, Kerman, Iran, August 2007, (GPA: 18.40/20), the first rank student.

Thesis Title: Simulation and Water Resource Management of Sirjan Plain Aquifer

BSc, Irrigation Engineering, Dept. Water Engineering, Shahid Bahonar University of Kerman, Kerman, Iran, July 2004, (GPA: 17.03/20), the first rank student.

BSc Project Title: Flood Frequency Analysis of Gamasiab Watershed, Kermanshah, Iran

Visiting Scientist, Department of Civil & Environmental Engineering, University of Connecticut, Storrs, CT, USA (March 11 to September 5 2012).

Visiting Researcher, Water, Energy and Environmental Engineering Research Unit, Faculty of Technology, University of Oulu, Finland (July 10 to November 28, 2023)

Awards, Honorary Degrees, Medals and Positions:

- First ranked among all BSc students of Irrigation Engineering Department, Shahid Bahonar University of Kerman (2004).
- First ranked among all Masters Students of Hydraulic Structures Department, Shahid Bahonar University of Kerman (2007).
- The first order in the admission exam which carried out by University of Tabriz (2008).
- Distinguished Ph.D. student among all PhD students of Faculty of Agriculture, University of Tabriz (2013).
- The Best Researcher Award from the Governor of Chaharmahal and Bakhtiari Province (2017)
- The Best Researcher Award from the Governor of Chaharmahal and Bakhtiari Province (2020)
- The Best Researcher Award from the Governor of Chaharmahal and Bakhtiari Province (2024)
- The Best Researcher of Faculty of Agriculture, Shahrekord University (2023)
- The Best Researcher of Faculty of Agriculture, Shahrekord University (2024)

Work Experiences and Official Positions:

- Associate Professor of Shahrekord University since 26 May 2018 (to be continued).
- Assistant Professor of Shahrekord University since 7 September 2013 to – 25 May 2018.
- Head of Water Resources Research Center (WRRC) since 2018 to 2023.
- Vice-Chancellor for Research of Water Resources Research Center (WRRC) (2014 to 2018).
- General Chair of the 17th Iranian Hydraulic Conference which held in Shahrekord University 4-6 September 2018.
- Scientific Chair of 2nd National Iranian Conference on Hydrology which held in Shahrekord University 11- 12 July 2017.
- Executive Manager of First National Conference on Development of Chaharmahal and Bakhtiari Province was held in Shahrekord University 19th of February 2015.
- Executive Manager of Second National Conference on Water Crisis was held in Shahrekord University 15- 16 of September 2014.
- Secretary of the Iranian Association of Hydrology from 2016 (to be continued).
- Member of founding board of the Iranian Association of Hydrology
- Designing Engineer for various Iranian consultant companies (e.g. Azarkavab; Teyfsaz Sabz Consult Co.) from 2009 (to be continued).

Publications

Books

- 1- Singh, VP. (Ed.), Jhajharia, D. (Ed.), **Mirabbasi, R.** (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 1: Assessment and Spatial Analyses in Changing Climate. CRC Press, 536p. ISBN: 9781032231709
- 2- Singh, VP. (Ed.), Jhajharia, D. (Ed.), **Mirabbasi, R.** (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 2: Forecasting, Monitoring, and Managing Risk. CRC Press, 664p. ISBN: 9781032231686.
- 3- Kumar, R. (Ed.), Singh, VP. (Ed.), Jhajharia, D. (Ed.), **Mirabbasi, R.** (Ed.). (2020). Agricultural Impacts of Climate Change [Volume 1]. Boca Raton: CRC Press, 304p. eBook ISBN: 9780429326349. <https://doi.org/10.1201/9780429326349>
- 4- Kumar, R. (Ed.), Singh, VP. (Ed.), Jhajharia, D. (Ed.), **Mirabbasi, R.** (Ed.). (2020). Applied Agricultural Practices for Mitigating Climate Change [Volume 2]. Boca Raton: CRC Press, 296p. eBook ISBN: 9780429326400. <https://doi.org/10.1201/9780429326400>
- 5- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi Najafabadi** (2023). Multivariate Analysis of Hydrological Events Using Copula Functions. Publisher: University of Birjand. ISBN: 978-622-6582-58-2 (in Persian)

- 5- Mohammad Nazeri Tahroudi; Yousef Ramezani, **Rasoul Mirabbasi Najafabadi**, Keivan Khalili (2022). Statistical Analysis of Time Series in Water Resources Using R software. Publisher: University of Birjand. ISBN: 978-622-6582-44-5 (in Persian)
- 6- Eslamian, S.S., **Mirabbasi, R.** and Ostad-Ali-Askari, K. 2017, Advance Engineering Statistics (Simulation and Modeling of Uncertainty and Sensitivity Analysis). Publisher: Kankash Publication ISBN: 978-600-136-359-7 (in Persian)

Book chapters

- 1- Mohammad Nazeri Tahroudi, Farshad Ahmadi, Yousef Ramezani, Mohsen Pourreza-Bilondi, **Rasoul Mirabbasi**, (2023). Investigating the relationship between the temporal distribution of precipitation and flow shortness volume over Lake Urmia Basin, Iran. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 1: Assessment and Spatial Analyses in Changing Climate. (Chapter 7). CRC Press, 536p. ISBN: 9781032231709
- 2- Mohammad Nazeri Tahroudi, Farshad Ahmadi, Yousef Ramezani, **Rasoul Mirabbasi**, (2023). Analysis of drought using a modified version of the Standardized Precipitation Evapotranspiration Index. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 1: Assessment and Spatial Analyses in Changing Climate. (Chapter 11). CRC Press, 536p. ISBN: 9781032231709.
- 3- Farshad Ahmadi, Mohammad Nazeri Tahroudi, Yousef Ramezani, **Rasoul Mirabbasi**, (2023). Analysis of meteorological drought using Joint Deficit Index based on downscaled precipitation data. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 1: Assessment and Spatial Analyses in Changing Climate. (Chapter 13). CRC Press, 536p. ISBN: 9781032231709.
- 4- Tommaso Caloiero and **Rasoul Mirabbasi**, (2023). A copula-based joint deficit index for the analysis of droughts in New Zealand. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 2: Forecasting, Monitoring, and Managing Risk. (Chapter 13). CRC Press, 664p. ISBN: 9781032231686.
- 5- P. Kanthavel, D. Jhajharia, G. S. Yurembam, **R. Mirabbasi**, (2023). Comparative copula-based multivariate meteorological drought analysis: a case study from Northeast India. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 2: Forecasting, Monitoring, and Managing Risk. (Chapter 14). CRC Press, 664p. ISBN: 9781032231686.
- 6- **Rasoul Mirabbasi** and Deepak Jhajharia, (2023). Multivariate Assessment of Drought Using Composite Drought Index. In: Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.), Kumar, R. (Ed.). (2023). Integrated Drought Management, Volume 2: Forecasting, Monitoring, and Managing Risk. (Chapter 15). CRC Press, 664p. ISBN: 9781032231686.
- 7- Farshad Ahmadi, Mohammad Nazeri Tahroudi, **Rasoul Mirabbasi**, Keivan Khalili, and Deepak Jhajharia, (2020). Spatial Distribution of a Daily, Monthly and Annual Precipitation Concentration Index. In: Kumar, R. (Ed.), Singh, VP. (Ed.), Jhajharia, D. (Ed.), Mirabbasi, R. (Ed.). Agricultural Impacts of Climate Change (Chapter 1). Boca Raton: CRC Press, eBook ISBN: 9780429326349. <https://doi.org/10.1201/9780429326349>
- 8- **Rasoul Mirabbasi** (2015). Application of Artificial Intelligence Methods for Groundwater Quality Prediction. In: Ata Allah Nadiri (Ed.). Application of Artificial Intelligence Methods

in Geosciences and Hydrology (Chapter 4). Foster City, CA. USA, OMICS Group eBooks. ISBN: 978-1-63278-061-4-04. DOI: <http://dx.doi.org/10.4172/978-1-63278-061-4-062>.

International Journals

- 73- **Rasoul Mirabbasi**, Mohammad Nazeri Tahroudi, Alireza Sharifi, Ali Torabi Haghighi. (2025). Investigating the dependence structure of temperature and precipitation concentration with evapotranspiration in Finland. Water Resources Management. <https://doi.org/10.1007/s11269-025-04320-5> (IF=4.7). Q1 (Accepted).
- 72- Amin Gharehbaghi, Redvan Ghasemlounia, Farshad Ahmadi, **Rasoul Mirabbasi**, Ali Torabi Haghighi. (2025). A Comparative Study on Novel Hybrid Approaches Based on CEEMDAN, Random Forest, Deep Learning Methods for Predicting Daily Wind Speed. Earth Systems and Environment, <https://doi.org/10.1007/s41748-025-00714-y> (IF=4.7). Q1
- 71- Amin Gharehbaghi, Redvan Ghasemlounia, Farshad Ahmadi, **Rasoul Mirabbasi**, Ali Torabi Haghighi (2025). Developing a novel hybrid model based on GRU deep neural network and Whale optimization algorithm for precise forecasting of river's streamflow. Scientific Reports, 15, 19436. <https://doi.org/10.1038/s41598-025-03185-3> (IF=3.8). Q1
- 70- Sina Sadeghfam; Hadi Farmani; **Rasoul Mirabbasi** (2025). Developing reservoir drought index and conducting copula-based frequency analysis for Lake Urmia basin in Iran. Journal of Hydrology: Regional Studies, 60, 102476 <https://doi.org/10.1016/j.ejrh.2025.102476> (IF=4.7). Q1
- 69- Mohammad Khaledi-Alamdari; Ahmad Fakheri-Fard, **Rasoul Mirabbasi**; Ana Russo, Abolfazl Majnooni-Heris (2025). Conditional drought risk of rainfed wheat yield through copula analysis: comparison between two multiscalar drought indicators in the Tabriz region, Iran. Stochastic Environmental Research and Risk Assessment. 39: 2843-2857. <https://doi.org/10.1007/s00477-025-02995-1> (IF=3.9). Q1
- 68- Sabah Parvaze, Rohitashw Kumar, **Rasoul Mirabbasi**, Saqib Parvaze Allaie. (2025). Drought severity index analysis using the copula-based joint deficit index in greater Himalayas of India. Theoretical and Applied Climatology. 156, 217. <https://doi.org/10.1007/s00704-025-05449-4>. (IF=2.8). Q2
- 67- Roghayeh Ahmadifar, Hamid R. Safavi, **Rasoul Mirabbasi**, Mohammad H. Golmohammadi (2025). A hybrid vine copula-fuzzy model for groundwater level simulation under uncertainty. Environmental Monitoring and Assessment. 197: 403, <https://doi.org/10.1007/s10661-025-13856-3>. (IF=3.0). Q2
- 66- Asiyeh Ebrahimzadeh, Elham Hashemizadeh, **Rasoul Mirabbasi**. (2025). A numerical solution of the mathematical models for water pollution by shifted Jacobi polynomials. TWMS Journal of Applied and Engineering Mathematics. 15(2): 298-308. (IF=0.4). Q4
- 65- Mohammad Nazeri Tahroudi; **Rasoul Mirabbasi**, (2025). Evaluating the efficiency and accuracy of the copula-based rainfall-runoff model. Earth Science Informatics. 18: 122, <https://doi.org/10.1007/s12145-024-01594-y> (IF=3.0). Q2
- 64- **Rasoul Mirabbasi**, Björn Klöve, Ali Torabi Haghighi, (2024). Multivariate Frequency Analysis of Drought Characteristics in Finland Using Vine Copulas. International Journal of Climatology. 44(16): 5986-6013. <https://doi.org/10.1002/joc.8679>. (IF=3.5). Q2
- 63- Asiyeh Ebrahimzadeh, Raheleh Khanduzi, **Rasoul Mirabbasi**, Elham Hashemizadeh. (2024). Optimal control of water pollutant transmission by utilizing a combined Jacobi collocation

- method and mountain gazelle algorithm. Iranian Journal of Numerical Analysis and Optimization. 15(1): 163-196. <https://doi.org/10.22067/ijnao.2024.89204.1491>. (IF=0.2) Q4
- 62- Marjan Moazamnia, Sina Sadeghfam, Naser Jabraili-Andariyan, Ata Allah Nadiri, **Rasoul Mirabbasi**, Roohollah Noori. (2024). Probabilistic human health risk assessment for arsenic, nickel and lead exposures based on two-dimensional Monte Carlo simulation. Groundwater for Sustainable Development. 27: 101312, <https://doi.org/10.1016/j.gsd.2024.101312> (IF=5.6). Q1
- 61- Farshad Ahmadi, **Rasoul Mirabbasi**, Rohitashw Kumar, Sarita Gajbhiye, (2024). Prediction of precipitation using wavelet-based hybrid models considering the periodicity. Neural Computing and Applications, 36, 16345–16364. DOI: 10.1007/s00521-024-10006-7 (IF=6.0). Q1
- 60- Nazeri Tahroudi, M., **Mirabbasi, R.**, Nasrolahi, A., (2024). Investigating the possibilities of temperature concentration distribution in Zayanderood based on climate change. Dynamics of Atmospheres and Oceans 106, 101454. Doi: 10.1016/j.dynatmoce.2024.101454 (IF=1.7). Q2
- 59- Nazeri Tahroudi, M., Ramezani, Y., De Michele, C., **Mirabbasi, R.**, (2024). Wind speed monitoring using entropy theory and a copula-based approach. Probabilistic Engineering Mechanics. 75, 103582. doi: 10.1016/j.proengmech.2024.103582. (IF=2.6). Q1
- 58- **Mirabbasi, R.**, Nazeri Tahroudi, M., Sharifi, A., Torabi Haghighi, A., (2024). A Probabilistic Approach for Estimating Spring Discharge Facing Data Scarcity. Applied Water Science. 14: 12. doi:10.1007/s13201-023-02071-5 (IF=5.5). Q1
- 57- Vahidi, M.J., **Mirabbasi, R.**, Khashei-Siuki, A., Nazeri Tahroudi, M., Jafari, A.M., (2023) Modeling of daily suspended sediment load by trivariate probabilistic model (case study, Allah River Basin, Iran). Journal of Soils and Sediments. DOI: 10.1007/s11368-023-03629-1 (IF=3.6). Q1
- 56- Nazeri Tahroudi, M., **Mirabbasi, R.** (2023). Development of decomposition-based model using Copula-GARCH approach to simulate instantaneous peak discharge. Applied Water Science, 13: 182. DOI: 10.1007/s13201-023-01982-7. (IF=5.5). Q1
- 55- Nazeri Tahroudi, M., Ahmadi, F., **Mirabbasi, R.**, (2023). Performance comparison of IHACRES, random forest and copula-based models in rainfall-runoff simulation. Applied Water Science. 13, 134 DOI: 10.1007/s13201-023-01929-y (IF=5.411). Q1
- 54- Nazeri Tahroudi, M., **Mirabbasi, R.**, (2023). Frequency decomposition associated with machine learning algorithms and copula modeling for river flow prediction. Stochastic Environmental Research and Risk Assessment. DOI: 10.1007/s00477-023-02425-0 (IF=3.821). Q1
- 53- Birjandi, V., Tabatabaei, S.H., Mastouri, R., Mazaheri, H., **Mirabbasi, R.**, (2023). Multivariate spatial analysis of groundwater quality using copulas. Acta Geophysica. DOI: 10.1007/s11600-023-01073-w (IF=2.293). Q2
- 52- Moradzadeh Rahmatabadi, S., Irandoust, M., **Mirabbasi, R.**, (2023). Multivariate analysis of rainfall–runoff characteristics using copulas. Journal of Earth System Science, 132, 93 DOI: 10.1007/s12040-023-02105-1. (IF=1.912). Q2
- 51- Fatemeh Sohrabi Geshnigani, Mohammad Reza Golabi, **Rasoul Mirabbasi**, Mohammad Nazeri Tahroudi (2023). Daily solar radiation estimation in Belleville station, Illinois, using ensemble artificial intelligence approaches. Engineering Applications of Artificial Intelligence, 120, 105839. doi.org/10.1016/j.engappai.2023.105839 (IF=7.802). Q1

- 50- Ramezani, Y., Nazeri Tahroudi, M., De Michele, C., **Mirabbasi, R.** (2023). Application of copula-based and ARCH-based models in storm prediction. *Theoretical and Applied Climatology*, doi.org/10.1007/s00704-022-04333-9 (IF=3.409). Q2
- 49- Sasan Amini; Rafat Zare Bidaki; **Rasoul Mirabbasi**; Maryam Shafaei, Multivariate analysis of flood characteristics in Armand Watershed, Iran using vine copulas. *Arabian Journal of Geosciences*, doi.org/10.1007/s12517-022-11102-5. (IF= 1.827). Q2
- 48- Neshat Jahannemaei; Payam Khosravinia; Hadi Sanikhani; **Rasoul Mirabbasi**, Toward analyzing meteorological droughts in the west of Iran: a multivariate approach based on vine copulas. *Natural Hazards*, doi.org/10.1007/s11069-022-05747-4 (IF= 3.158). Q1
- 47- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2022). Application of Copula Functions for Bivariate Analysis of Rainfall Deficiency and River Flow Deficiency in Siminehrood River Basin, Iran. *Journal of Hydrologic Engineering*, doi.org/10.1061/(ASCE)HE.1943-5584.0002207 (IF= 2.439). Q2
- 46- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2022). Application of Copula-Based Approach as a New Data Driven Model for Downscaling the Mean Daily Temperature. *International Journal of Climatology* doi.org/10.1002/joc.7752 (IF= 4.069). Q1
- 45- Farshad Ahmadi; Mohammad Nazeri Tahroudi; **Rasoul Mirabbasi**; Rohitashw Kumar, (2022). Spatiotemporal analysis of precipitation and temperature concentration using PCI and TCI: a case study of Khuzestan Province, Iran. *Theoretical and Applied Climatology*, 149: 743-760. doi.org/10.1007/s00704-022-04077-6 (IF=3.179). Q2
- 44- Sina Sadeghfam, Rasa Mirahmadi, Rahman Khatibi, **Rasoul Mirabbasi**, Ata Allah Nadiri, (2022). Investigating meteorological/groundwater droughts by copula to study anthropogenic impacts. *Nature Scientific Reports* https://doi.org/10.1038/s41598-022-11768-7 (IF= 4.996). Q1
- 43- Mohammad Nazeri Tahroudi; **Rasoul Mirabbasi**; Yousef Ramezani; Farshad Ahmadi, (2022). Probabilistic Assessment of Monthly River Discharge using Copula and OSVR Approaches. *Water Resources Management*. https://doi.org/10.1007/s11269-022-03125-0 (IF=3.517). Q1
- 42- Sasan Amini, Rafat Zare Bidaki, **Rasoul Mirabbasi**, Maryam Shafaei, (2022). Flood risk analysis based on nested copula structure in Armand Basin, Iran. *Acta Geophysica*. doi.org/10.1007/s11600-022-00766-y. (IF=2.058). Q2
- 41- Farshad Ahmadi, **Rasoul Mirabbasi**, Sarita Gajbhiye, Rohitashw Kumar, (2022). Investigating the variation pattern and erosivity power of precipitation in the Sindh river basin of India during last 120 years. *Stochastic Environmental Research and Risk Assessment*. doi.org/10.1007/s00477-022-02193-3. (IF=3.379). Q1
- 40- Mohammad Nazeri Tahroudi, Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2022). Trivariate joint frequency analysis of water resources deficiency signatures using vine copulas. *Applied Water Science*, 12:67 doi.org/10.1007/s13201-022-01589-4 (IF=3.874). Q1
- 39- Mohammad Nazeri Tahroudi, Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2022). Bivariate Simulation of Potential Evapotranspiration Using Copula-GARCH Model. *Water Resources Management*. doi: 10.1007/s11269-022-03065-9. (IF=3.517). Q1
- 38- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2022). Multivariate analysis of rainfall and its deficiency signatures using vine copulas. *International Journal of Climatology*, 42(4): 2005-2018. Doi: 10.1002/joc.7349 (IF=4.069). Q1

- 37- Alireza Sharifi, **Rasoul Mirabbasi**, Mohammad Ali Nasr-Esfahani, Ali Torabi Haghighi, Rohollah Fattahi. (2021). Quantify the impacts of anthropogenic changes and climate variability on runoff changes in central plateau of Iran using nine methods. *Journal of Hydrology*, doi: 10.1016/j.jhydrol.2021.127045 (IF=5.722). Q1
- 36- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2021). Flood routing via a copula-based approach. *Hydrology Research*, 52(6): 1294-1308. doi: 10.2166/nh.2021.008 (IF=2.419). Q1
- 35- Deepak Jhajharia, Shivam Gupta, **Rasoul Mirabbasi**, Rohitashw Kumar and Ghanshyam T. Patle. (2021). Pan evaporative changes in transboundary Godavari River basin, India. *Theoretical and Applied Climatology*, 145: 1503- 1520. doi: 10.1007/s00704-021-03707-9 (IF=3.179). Q2
- 34- Alireza Sharifi; Ali Mirchi; Roghayeh Pirmoradian; **Rasoul Mirabbasi**; Mohammad Javad Tourian; Ali Torabi Haghighi; Kaveh Madani, (2021). Battling Water Limits to Growth: Lessons from Water Trends in the Central Plateau of Iran. *Environmental Management*, 68: 53-64. doi: 10.1007/s00267-021-01447-0 (IF=3.266). Q1.
- 33- Fatemeh Sohrabi Geshnigani, **Rasoul Mirabbasi**, Mohammad Reza Golabi, (2021). Evaluation of FAO's WaPOR product in estimating the reference evapotranspiration for stream flow modelling. *Theoretical and Applied Climatology*. 144: 191-201. Doi: 10.1007/s00704-021-03534-y (IF=3.179). Q2
- 32- **Rasoul Mirabbasi**, Farshad Ahmadi, Deepak Jhajharia, (2020). Comparison of parametric and non-parametric methods for trend identification in groundwater levels in Sirjan plain aquifer, Iran. *Hydrology Research*. 51(6): 1455- 1477. doi: 10.2166/nh.2020.041 (IF=2.419). Q1
- 31- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2020). A New Method for Joint Frequency Analysis of Modified Precipitation Anomaly Percentage and Streamflow Drought Index Based on the Conditional Density of Copula Functions. *Water Resources Management*. 34, 4217–4231. DOI: 10.1007/s11269-020-02666-6 (IF=3.517). Q1
- 30- Mohammad Taghi Sattari; **Rasoul Mirabbasi**; Salar Jarhan; Fatemeh Shaker Sureh; Sajjad Ahmad, (2020). Trend and abrupt change analysis in water quality of Urmia Lake in comparison with changes in lake water level. *Environmental Monitoring and Assessment*. 192, 623, DOI: 10.1007/s10661-020-08577-8 (IF=1.903). Q2
- 29- Mohammad Nazeri Tahroudi; Yousef Ramezani, Carlo De Michele, **Rasoul Mirabbasi**, (2020). Analyzing the Conditional Behavior of Rainfall Deficiency and Groundwater Level Deficiency Signatures by Using Copula Functions. *Hydrology Research*. 51 (6): 1332–1348. DOI: 10.2166/nh.2020.036. (IF=2.012). Q1
- 28- Sattari, M.T., **Mirabbasi, R.**, Dolati, H., Shaker Sureh, F., Ahmad, S., (2020). Investigating the Effect of Managing Scenarios of Flow Reduction and Increasing Irrigation Water Demand on Water Resources Allocation Using System Dynamics (Case Study: Zonouz Dam, Iran). *Journal of Tekirdag Agricultural Faculty*, 17(3): 406- 421. DOI: 10.33462/jotaf.703167 (IF=0.2). Q4
- 27- Sarita Gajbhiye Meshram, Chandrashekhar Meshram, Mohammad Ali Ghorbani, Hossein Tabari, **Rasoul Mirabbasi**, Balram Ambade, 2020. Long Term Temperature Trend Analysis Associated with Agriculture Crops, *Theoretical and Applied Climatology* (Accepted). (IF=2.72). Q2

- 26- Sajjad Abdollahi; Ali-Mohammad Akhoond-Ali; **Rasoul Mirabbasi**; Jan Franklin Adamowski, (2019). Probabilistic event based rainfall-runoff modeling using copula functions. *Water Resources Management*, 33(11): 3799- 3814. DOI: 10.1007/s11269-019-02339-z. (IF=2.987). Q1
- 25- Farshad Ahmadi, Feridon Radmanesh, Mohamad Reza Sharifi, **Rasoul Mirabbasi**, (2018). "Bivariate Frequency Analysis of Low Flow Using Copula Functions (Case study: Dez River Basin, Iran)" *Environmental Earth Sciences*, 77: 643 DOI: 10.1007/s12665-018-7819-2. (IF=1.435). Q2
- 24- Hadi Sanikhani, Ozgur Kisi, **Rasoul Mirabbasi**, Sarita Gajbhiye Meshram. (2018). Trend analysis of rainfall pattern over the Central India during 1901- 2010. *Arabian Journal of Geosciences*, 11,437 DOI: 10.1007/s12517-018-3800-3 (IF=0.86).
- 23- Hadi Sanikhani, Ravinesh C. Deo, Pijush Samui, Ozgur Kisi, Cihan Mert, **Rasoul Mirabbasi**, Siavash Gavili, Zaher Mundher Yaseen, (2018). Survey of different data-intelligent modeling strategies for forecasting air temperature using geographic information as model predictors. *Computers and Electronics in Agriculture*, 152: 242- 260. DOI: 10.1016/j.compag.2018.07.008. (IF=2.427)
- 22- Mohammad Nazeri Tahroudi, Keivan Khalili, Farshad Ahmadi, **Rasoul Mirabbasi**, Deepak Jhajharia, (2018). Development and Application of a New Index for Analyzing Temperature Concentration for Iran's Climate. *International Journal of Environmental Science and Technology*. DOI: 10.1007/s13762-018-1739-2 (IF=2.037)
- 21- **Rasoul Mirabbasi**, Ozgur Kisi, Hadi Sanikhani, Sarita Gajbhiye Meshram, (2018). Monthly long-term rainfall estimation in Central India using M5Tree, MARS, LSSVR, ANN and GEP models. *Neural Computing and Applications*. DOI: 10.1007/s00521-018-3519-9 (IF=4.213).
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Editorial board in journal

- Members of the editorial board of SCIREA Journal of Geosciences
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- 17- Journal of Engineering and Technological Sciences
- 18- Arabian Journal of Geosciences
- 19- International Journal of Climatology
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- 37- Journal of Hydrology: Regional Studies
- 38- Water and Environment Journal
- 39- Acta Geophysica
- 40- Iran Water Research Journal
- 41- Water and Soil Sciences Journal, University of Tabriz
- 42- Soil Management Journal
- 43- Water Resources Engineering, Marvdasht Islamic Azad University
- 44- Irrigation and Water Engineering
- 45- Physical Geography Research Quarterly
- 46- Journal of Water and Soil
- 47- International Bulletin of Water Resources and Development (IBWRD)
- 48- Journal of Geosciences
- 49- Journal of Dam and Hydroelectric Power plant

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- First National Conference on Development of Chaharmahal and Bakhtiari Province
- The 2nd National Iranian Conference on Hydrology
- The 17th Iranian Hydraulic Conference
- The 2nd International Congress on Engineering and Architecture (ENAR) Marmaris / Turkey, 22 - 24 April 2019) (<https://www.enarcongress.com/Conference/Committee>)
- The 2nd Conference of the Arabian Journal of Geosciences (CAJG) Sousse/Tunisia, 25- 28 November 2019) .(<https://www.cajg.org/index.php?p=committees>)
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- Iranian Association of Hydrology (IRAH)
- Iranian Water Resources Association (IR-WRA)
- Iranian National Committee on Irrigation and Drainage (IRNCID)
- Iranian Society of Irrigation and Water Engineering (ISIWE)
- National Elite Foundation of Iran (<http://www.bmn.ir>)
- Gifted and Talented Student center of Tabriz University, Tabriz, Iran
- Gifted and Talented Student center of Shahid Bahonar University of Kerman, Kerman, Iran
- Young Researchers Club ,Tabriz, Iran (<http://www.yrc.ir>)
- Student Researchers Club ,Tehran, Iran (<http://bpdanesh.ir>)

Research Interests:

Hydrologic Modeling; Regional Flood, Low Flow and Drought Frequency Analysis; Statistical and Stochastic Hydrology; Meteorology; Climate Change; Hydrologic Time Series Modeling and Forecasting; Hydrology of Arid Regions; GIS Application in Hydrology; Hydroinformatics; Water Resources Management; Groundwater modeling; Data mining

Skills:

Languages:

English (Good), Persian (Mother Tongue), Azeri Turkish (Basic), Arabic (Basic).

Softwares:

Fluent with ArcGIS 10.3, Surfer, Autocad, Smada, Hyfa

Have experience with Maple, Mathematica, R Project, and Linux

Programming with MATLAB, and Visual Basic.

Statistical software: SPSS, NCSS, MINITAB, SAS

Modeling Software: Modflow (PMWIN 5.3), Vensim, SAP2000, SEEP/W, CE-QUAL-W2

Text formatting and office computing: Word, EndNote, Excel, PowerPoint, Visio, Publisher

Educational Activity:

Teaching

- Surveying (BSc),
- Groundwater Hydrology (BSc)
- Water Conveyance Structures (BSc)
- Agricultural Operations (BSc)
- Meteorology and Climatology (BSc)
- Surface Hydrology (BSc)
- Water Resources Management (BSc)
- Technical Software (BSc)
- Design of Earth Dams (BSc)
- Foundation Engineering (BSc)
- Water Resources Systems Analysis (MSc)
- Mathematical Models in Hydrology (MSc)
- Earth Dams (MSc)
- Advanced Surface Hydrology (MSc)
- Special Subjects in Hydrology (MSc)
- Advanced Engineering Hydrology (PhD)
- Advanced Water Resources Management (PhD)
- Stochastic Methods in Water Resources (PhD)
- Hydrology of Urban Watersheds and Small areas (PhD)
- Water Resources Systems Analysis (PhD)
- Modeling in Environmental Sciences and Engineering (PhD)
- Statistical Hydrology (PhD)

Mentoring Postdoctoral Scholars

Mohammad Nazeri Tahroudi, 2022. Postdoctoral Researcher, Department of Water Engineering, Shahrekord University, Development of copula-based models for hydrological simulation and forecasting (Zayanderood dam basin) founded by Iran National Science Foundation (INSF).

Thesis supervision

PhD. Student

- Sohrabi, Fatemeh, (2025). Analysis and study of estimated PMP values using different methods and its future prospects (Case Study: Urmia Lake Basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Alipour Nasir Mahaleh, Farshad, 2024. Analysis of Water Transfer Projects by Combining Public Choice Approach and Game Theory (Case Study: Beheshtabad Water Transfer Project). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Kazemiazar, Faraham (2023). Short term flood forecasting using artificial intelligence and reanalysis data. Department of Water Engineering, Faculty of Agriculture, Urmia University, (Advisor)
- Mehdizadeh, Saleh (2023). Investigation of Saltwater Intrusion into Confined and Inclined Coastal Aquifers Based on Semi-analytical Solution of Henry Problem. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Seifian, Zahra, (2023). Spatial and temporal analysis of meteorological and soil moisture drought with observational and satellite data using Copula functions. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Central Tehran Branch. (Advisor)
- Ahmadifar, Roghayeh, 2022. Conjunctive use of surface and groundwater resources under the influence of climate change and uncertainty- Najafabad sub-basin. Department of Civil Engineering, Isfahan University of Technology. (Advisor)
- Adib Majd, Esmaeil, 2022. Development of a Model for Inter-Seasonal Planning of Water Resources considering Deficit Irrigation (Case study: Zayandehrud River Basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Ramezani Chermahineh, Abdollah, 2022. Analytical Solution to Investigate Configuration of Multi-well System in Groundwater Remediation near a Stream. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Kazemi Azar, Faraham, Short-term Flood Forecasting Using Artificial Intelligence and Reanalysis Data. Department of Water Engineering, Faculty of Agriculture, Urmia University. (Advisor)
- Mohammadi, Bahar, Flood risk analysis in a chain system of series and parallel reservoirs by dynamic Bayesian network method considering hydrological and hydraulic uncertainties (Case study: Dez and Karun rivers, Khuzestan). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Advisor)
- Moradzadeh Rahmatabadi, Samira. 2022. Bivariate analysis of flood variables using Copula functions in flood-prone areas (Case study of Khanmirza and Kesilian basins). Islamic Azad University, Kerman Branch, (Advisor)
- Birjandi, Vahid, 2022. Multivariate analysis of groundwater quality using copula functions (case study: Shahrekord Plain). Islamic Azad University, Arak Branch, (Advisor)
- Pirmoradian, Roghayeh, 2021. Flash Flood Modeling Using Real-Time and Near Real- Time Satellite Precipitation Products. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)

- Nazeri Tahroudi, Mohammad, 2020. Analysis of Three-Variable Joint Frequency of Water Resources Signatures in Lake Urmia Basin by Using Copula Functions. Department of Water Engineering, Faculty of Agriculture, University of Birjand, (Co-Advisor)
- Sharifi, Alireza, 2020. Determining the contributions of the climate and human activities to runoff regime changes in the Zayandehrud River branches (Ghaleh Shahrokh sub-basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor)
- Amini, Sasan, 2020. Uncertainty Quantification of Hydrologic Predictions and Flood Risk Analysis (Case study: Beheshtabad Watershed). Department of Rangeland and Watershed Management, Faculty of Natural Resources and Geosciences, Shahrekord University, (Co-Supervisor)
- Khani Temeliyeh, Zabihollah, 2020. Drought Analysis and its Risk Assessment using Copula Functions (Case Study: Iran). Department of Water Engineering, Faculty of Agriculture, Urmia University, (Co-Supervisor)
- Ahmadi, Farshad, 2016. Multivariate Analysis of Flows Characteristics in Complex River Systems with Multiple Tributaries. Department of Hydrology and Water Resources, Faculty of Water Sciences, Shahid Chamran University of Ahvaz, (Co-Advisor).
- Shafayee, Maryam, 2016. Study of a Copula-Entropy Hybrid Model for Hydrologic Data Simulation. Department of Water Engineering, Faculty of Agriculture, University of Tabriz, (Co-Advisor).
- Abdollahi Asadabadi, Sajjad, 2016. Multivariate Analysis of Rainfall and Runoff Characteristics Using Copula Functions. Department of Hydrology and Water Resources, Faculty of Water Sciences, Shahid Chamran University of Ahvaz, (Advisor).
- Hashemi, Ali Asghar, 2016. Using of a coupled Ground-Water and Surface-Water Flow model and evaluation of water use efficiency using water accounting method (Case study: Zayandehrood Basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Abdi Kordani, Amin, 2016. Regional Bivariate Modeling of Droughts Using Copula Functions and Charged System Search Algorithm. Department of Water Resources Engineering, Faculty of Civil Engineering, University of Tabriz, (Co-Advisor).

MSc. Student

- Ardeshiri Saadatollah (2025). Evaluation of Accuracy of Satellite Precipitation Products in Chaharmahal and Bakhtiari Province. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Alipour Modab, Gholamreza (2024). Modelling Pan Evaporation in Kohkiluyeh and Boyer Ahmad Provinces Using Deep Neural Network and Support Vector Machine. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Farmani, Hadi, (2024). Drought analysis by developing a standardized dam reservoir index and frequency analysis using Copula functions (Case study: selected dams from the Urmia Lake watershed). Department of Water Engineering, Faculty of Agriculture, Maragheh University (Advisor).
- Rad Boroujeni, Navid (2024). Effect of drought on temporal and spatial variability of groundwater quality in Shahrekord plain and the aquifer vulnerability. Department of Water Engineering, Faculty of Agriculture, Shahrekord University (Advisor).

- Mohammadi Samani, Reza (2023). Investigating the Water Quality and Quantity Variations and Probabilistic Prediction of Water Turbidity in the Kuhrang Spring. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Zafari, Hasan, (2023). Future Studies of Water Resources and Consumption in the Kuhrang Watershed Using WEAP Software. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Mohammadtabar, Mohammad Hossein, 2022. Flood Zoning in Watershed Using ERA5 Reanalysis Data (Case study: Joneghan and Kiar Watershed). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Rafie Taghanaki, Zahra, 2022. Investigation of Relation between Meteorological Drought Characteristics and GRACE-Based Groundwater Drought Index with Meteorological Teleconnection Patterns in Sefiddasht and Faradonbeh Plains. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Naderi Eshkaftaki, Mohsen, 2022. Investigation of Trend and Causes of Groundwater Quality Variations in Sefiddasht and Faradonbeh Plains. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Hadipour Hafshejani, Arezou, 2021. Investigating the Effects of Climate Change and Human Activities on Water Resources of Golpayegan plain. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Firouzi, Mohammad Mehdi, 2022. Drought Monitoring and Prediction Using a Copula-based Joint Drought Index (CJDI). Department of Water Engineering, Faculty of Agriculture, Isfahan University of Technology (Advisor).
- Soleimani Babadi, Shirin, 2021. Sustainability Assessment of the Great Karun Watersheds against Floods Using the Reliability, Resilience, Vulnerability Indicators. Department of Range and Watershed Management, Faculty of Natural Resources and Earth Sciences, Shahrekord University, (Advisor).
- Jalai Kooshki, Sobhan, 2021. Simulation of Birgan River Water Quality Using QUAL2K and WASP Models. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Rashid, Zahra, 2021. Simulation of Rainfall- Runoff Process Using GR4J and HEC-HMS Models (Case Study: Bazoft Basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Piramooun, Nasrin, 2021. Rainfall-runoff modeling based on TANK Model and PSO optimization (Case study: Kaj Watershed). Department of Natural Engineering. Faculty of Natural Resources and Earth Sciences, Shahrekord University, (Advisor).
- Hafezi Biregani, Negin, 2020. Optimal Water Allocation of Maroon Dam Reservoir under Climate Change Condition. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Sohrabi, Fatemeh, 2020. Rainfall-Runoff Modeling Using HBV Model and Random Forest Algorithm (Case study: Bazoft Basin). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Esmaeili, Ahmadreza, 2020. Evaluation and Redesign of Rain Gauge Networks using Entropy theory (Case study: Chaharmahal and Bakhtiari province. Department of Natural Engineering. Faculty of Natural Resources and Earth Sciences, Shahrekord University, (Advisor).

- Mohammadi Ahmad Mahmoudi, Hossein, 2019. Environmental Impact Assessment (EIA) of Inter-basin Water Transfer (A Case Study of Third Koohrang Dam & Tunnel). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Advisor).
- Maghsoudi, Reza, 2019. Qualitative Investigation and Simulation of Beheshtabad River. Department of Water Engineering, Faculty of Agriculture, Isfahan University of Technology, (Advisor).
- Ghesmi, Reyhaneh, 2019. Application of System Dynamic Approach in Water Resources Allocation of Nargesi Dam. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Sadeghi, Esmail, 2019. Simulation of Rainfall-Runoff in Golpayegan Watershed by Using WMS Model. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Jahannamaei, Neshat, Multivariate analysis of meteorological droughts in west of Iran using Vine Copula functions. Department of Water Engineering, Faculty of Agriculture, University of Kurdistan, (Advisor).
- Bahrami, Moein, 2019. Assessment of the impact of climate change on the supply of water needs in the Vanak basin using weap and vensim models. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Advisor).
- Abiyar, Shirin, 2019. Evaluation of Urban Surface Runoff Collecting System Using SWMM Model (Case study: Shahrekord City). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Amini Naghani, Fahimeh, 2019. Investigation of Climate Change Effects on Hydropower Energy Production (Case Study: Karun 4 Dam). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Seyfipour, Kosar, 2018. Evaluation of Groundwater Quality Monitoring Network Using Entropy Theory (Case study: Sefiddasht Plain, Chaharmahal and Bakhtiari Province). Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Central Tehran Branch. (Supervisor).
- Tafazolli, Hedayat, 2017. Hydraulic analysis of groundwater flow with groundwater dam. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Larestan Branch, (Supervisor).
- Khosravi Dehkordi, Amir, 2017. Assessment and Prediction of Groundwater Drought in Three Forbidden Plains of Chaharmahal and Bakhtiari Province. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Bahrami Samani, Marziyeh, 2017. Prediction of Meteorological Drought in Chaharmahal and Bakhtiari Province Using Wavelet Transform. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Asadi Aghbalaghi, Farzaneh, 2017. Drought Assessment in Behesht-Abad Basin Using a Composite Drought Index. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Dehghanifard, Maryam, 2017. Assessment of Climate Change Impacts on Water Resources System Using WEAP Model, Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Buezari, Zeynab, 2017. Investigation of climate change effects on wheat water requirement during future periods in Khuzestan province. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Advisor).

- Hosseinpour, Zeynab, 2017. Drought Evaluation, Assessment and Mapping of Critical Area in the Groundwater Aquifer System of Shahrekord Plain. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Advisor).
- Mollayei, Safoura, 2016. Accuracy evaluation of SWAT Model in estimating runoff using REGCM output (Case study). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Karimi, Feisal, 2016. Optimum Allocation of Water Resources of Mirzaye Shirazi Dam Using System Dynamic Approach. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Esmaeili, Ayesheh, 2016. Equitable Allocation of Water Resources in Zayandehrud River Basin Using Game Theory. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Khodabakhshi Soureshjani, Hadiseh, 2016. Assessment of Climate Change Impacts on Runoff by using WetSpa Model with Probabilistic Approach and Uncertainty Analysis. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Bayati, Fatemeh, 2016. Runoff Estimation Using Geomorphological Instantaneous Unit Hydrograph (GIUH) and Copulas. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Tofighi, Hamed, 2016. Evaluation and modification of urban surface runoff collecting system using SWMM model. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Ahar Branch, (Supervisor).
- Badakhshan, Jalal, 2016. Simulation of sedimentation in settling basin of Mill & Moghan diversion dam using SSIIM model. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Ahar Branch, (Supervisor).
- Landi, Kobra, 2016. Evaluation of Groundwater Quality Monitoring Network Using Entropy Theory (Case study: Ize Watershed, Khuzestan Province). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Rezaei, Hossein Ali, 2016. Simulation and management of aquifer exploitation Meymeh using software PMWIN. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Ghasemi Abyazani, Parisa, 2016. Intermittent Water Supply Considering Quality Issues in Distribution Networks. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Akaberian-Fard, Maryam, 2016. Calculation of potential Retention Basin Using Modified SCS-CN (Case Study: Kasilian and Amameh Watersheds). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Etezazi, Poorshad, 2016. Investigating the effects of fluctuations in Najafabad and Lenjanat aquifers on Zayandehrud river discharge. Department of Water Engineering, Faculty of Agriculture, Buali Sina University of Hamedan, (Co-Advisor).
- Talakesh, Shirin Alsadat, 2016. Investigation of some physical and chemical properties of water in a great reservoir dam. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Jalali Josheghani, Zeinab, 2016. Study of some chemical and physical properties of water within layered transaction of reservoirs of south west dams in Iran. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).

- Omidinia Anarkooli, Tayebbeh, 2015. Investigation on saline water Intrusion into the Borkhar aquifer using GMS. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Hasani, Zahra, 2015. Assessment of Spatial and Temporal Variations of Groundwater Quality Using Geostatistical Techniques and Prediction of Quality Using Decision Tree Method (Case study: Khanmirza Watershed, Chaharmahal va Bakhtiari Province). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- Akbari, Marziyeh, 2015. Application of system dynamic approach in optimum allocation of water resources (Case study: Soork Dam). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Supervisor).
- HabibiNezhad, Mahdiyeh, 2015. Studying the Impact of Drought on Ground Water Resources of Sirjan Plain by PMWIN Model. Department of Water Engineering, Faculty of Agriculture, Zabol University, (Co-Advisor).
- Kadkhoda Hoseini, Mostafa, 2015. Application of system dynamic approach in optimize water resources allocation (Case study: Choghakhor Dam). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Majidi, Ali Akbar, 2015. Monitoring and Prediction of Meteorological Drought in Razan-Ghahavand Plain (Hamedan Province) Using Modified Standardized precipitation Index and Markov Chain. Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Karimi Parsa, Mahtab, 2015. Evaluation of different methods for estimating sediment inflow to large dam reservoirs (case study: Dez dam). Department of Water Engineering, Faculty of Agriculture, Shahrekord University, (Co-Advisor).
- Dashtipour, Edalat, 2014. Investigation of Spatial and Temporal Variations of Groundwater Quality Using Geostatistical Techniques (Case study: Rostam Watershed, Fars Province). Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Yasouj Branch, (Supervisor).
- Arjmand, Jamaledin, 2014. Consideration of Regime Equations and Determination of Geometrical Dimensions and Longitudinal Slope in Loudab River Using Minimum Energy Method. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Yasouj Branch, (Supervisor).
- Mahmoudi, Azizollah, 2014. Analysis of Drought Characteristics based on SPI and Modified SPI Indices (Case study: Kohgiluyeh and Boyer-Ahmad Province). Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Yasouj Branch, (Supervisor).
- Asgari, Ibrahim, 2014. Assessment of Precipitation, River flow and Water Quality Trend in Bazoft Watershed. Department of Water Engineering, Faculty of Civil Engineering, Islamic Azad University, Yasouj Branch, (Supervisor).
- Kolahdouzan, Ali, 2014. Investigation of Trends in Hydrogeochemical Elements of Groundwater (Case Study: Najafabad Plain). Department of Water Engineering, Faculty of Agriculture, University of Tabriz, (Co-Advisor).
- Dolati Khosroshahi, Hossein, 2013. Application of system dynamic approach in optimum allocation of water resources (Case study: Zunuz-Chay river basin). Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).

- Abbasgoli Naebzad, Mehdi, 2013. Surface Water Quality Classification by Using Decision Tree Method. Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).
- Barghi Velinjagh, Vahid, 2013. Simulation of Ajabshir Plain Aquifer Using Modflow. Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).
- Zehni, Mohammad, 2013. Reservoir inflow forecasting using Artificial Neural Networks and comparison with Multiple Linear Regression method (Case Study: Mahabad dam). Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).
- Pashapour, Rasoul, 2013. Evaporation modeling from Alavian Dam Reservoir using artificial neural networks and comparison with empirical relationships. Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).
- Alimohammadi, Masoud, 2013. Performance Evaluation of M5 tree model and Artificial Neural Networks in prediction of drought by using the SPI. Department of Civil Engineering, Faculty of Technical and Engineering, Islamic Azad University, Maragheh Branch, (Co-Advisor).

Research Project

Finished research project

- Investigation and monitoring of green mining conditions (Durak Refractory Soil Mine). (2025). Supported by Esteghlal Sepahan Company.
- Calculation of current resources and consumption of water in Chaharmahal and Bakhtiari province and estimation of drinking and industrial consumption in 2050. (2024). Supported by Regional Water Company of Chaharmahal and Bakhtiari, Iran.
- Comprehensive plan to determine the water needs of different parts of the province from the Karun Basin (2023). Supported by Organization of Agricultural Jihad, Chaharmahal and Bakhtiari Province.
- Investigation of Trend and Causes of Groundwater Quality Variations in Sefiddasht and Faradonbeh Plains. (2023). Supported by Chaharmahal & Bakhtiari Water and Waste Water Company.
- Prediction of flow rate of Absefid spring, Iran. (2022). Supported by Regional Water Company of Chaharmahal and Bakhtiari.
- Water rights of Zayandehrud River and Gavkhuni International Wetland for ecological function continuity. 2021. Supported by Isfahan Department of Environmental Protection Agency.
- Assessment of agricultural water demand in Chaharmahal and Bakhtiari Province. (2021). Supported by Organization of Agricultural Jihad, Chaharmahal and Bakhtiari Province.
- Application of copula-based models and ARCH in storm simulation. 2020. Supported by University of Birjand.
- Environmental flows assessment in upper parts of Beheshtabad River Basin (Biregan and Doab Samasami Rivers). 2019. Supported by Chaharmahal and Bakhtiari Province, Department of Environment (DOE)

- Investigation and Development of Water Scarcity Adaptation Strategies in Chaharmahal and Bakhtiari Province. 2019. Supported by Regional Water Company of Chaharmahal and Bakhtiari.
- Joint frequency analysis of anomalous percentage of rainfall and hydrological drought using copula functions. 2019. Supported by University of Birjand.
- Assessment of environmental flow requirements for main branches of Karun River at Chaharmahal and Bakhtiari province. 2018. Supported by Organization of Agricultural Jihad, Chaharmahal and Bakhtiari Province.
- Drought Crisis Management Plan for Hamedan Province. 2016. Supported by Hamedan Regional Water Company.
- Separation of drinking water from the required water of urban green space, 2020. Supported by Alloni Municipality.
- Study on water quality sampling and Limnology of Beheshtabd Dam Project. 2016. Supported by Iran Water and Power Resources Development Company.
- The estimated sources and uses of water balance using system dynamics (case study: Choghakhor Dam). 2016. Supported by Regional Water Company of Chaharmahal and Bakhtiari.
- Assessment of Spatial and Temporal Variations of Groundwater Quality Using Geostatistical Techniques and Prediction of Quality Using Decision Tree Method (Case study: Khanmirza Watershed, Chaharmahal and Bakhtiari Province). 2015. Supported by Regional Water Company of Chaharmahal and Bakhtiari.
- Estimation of water resources and demands in the Soork Dam basin and optimum allocation of water resources based on system dynamic. 2015. Supported by Regional Water Company of Chaharmahal and Bakhtiari.
- Application of Copula Functions for Droughts Analysis in Northwest of Iran. 2013. Supported by East Azarbaijan Regional Water Company.
- Ground Water Quality Classification by Decision Tree Method in Ardebil Region, Iran. 2013. Supported by Islamic Azad University, Ahar Branch.
- Evaluation of temporal characteristics of rainfall trend (Case study: Northwest of Iran). 2010. Supported by East Azarbaijan Regional Water Company.

In progress research project

- Updating Intensity-Duration-Frequency Charts by Considering Non-Stationarity. (2025). Supported by Regional Water Company of Chaharmahal and Bakhtiari, Iran.
- Estimation of cation exchange capacity (CEC) using copula functions and investigating erosion potential in soils of East Azarbaijan province (Case study: Ahar county). (2025). Supported by Shahrekord University.
- Operational solutions to solve the drinking water crisis in Chaharmahal and Bakhtiari Province (case study: Shahrekord City). (2024). Supported by Regional Water Company of Chaharmahal and Bakhtiari, Iran.
- Investigating the Water Quality and Quantity Variations in Kuhrang Spring. (2024). Supported by Regional Water Company of Chaharmahal and Bakhtiari, Iran.
- Future Studies of Water Resources and Consumption in the Kuhrang Watershed. (2024). Supported by Regional Water Company of Chaharmahal and Bakhtiari, Iran.

References:

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