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Guest Researcher, Ankara University (2019-220)

Online profiles:

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Education

Degree	Year	University	Department
PhD	2009	Ankara University, Ankara, Turkey	Farm Structures and Irrigation
Msc	2001	İsfahan University of Technology, İsfahan, Iran	Irrigation and Drainage
Bsc	1996	University of Tabriz, Tabriz, Iran	Irrigation

- **International Projects**

1. Project Title: Modeling the short-term rainfall-runoff by using artificial neural networks in the Sohu Stream basin, TÜBİTAK, 2008. Project No: 107O911.
2. Project Title: Determination of Possible Drought Periods in Ankara Region by using Data Mining Method, TÜBİTAK, 2008. Project No: 108O285.
3. Project Title: Modelling of the Water Quality of Aladag River Using Data Mining Approaches in Terms of Irrigation, 2018-2019 Project Based Mevlana International Exchange Program, Ankara University, Ankara, Turkey.
4. Project Title: Performance Evaluation of Data-Driven Models in ET₀ Values Estimation, 2019-2020, TUBITAK 2221 Program, Ankara University, Ankara, Turkey.

- **National Projects**

1. Optimum Operation of a Single Objective Reservoir and Simulation via Artificial Neural Networks (as a Project Research Team Member, 14 March, 2003-7 May, 2007).
2. Evaluating the Efficiency of Data-driven Methods in Modeling Monthly Rainfall in Urmia (as a Project Leader, 28 April, 2018-7 October, 2020).
3. Application of decision trees in Ardebil plain groundwater quality classification (13 August 2014)
4. Application of mathematical modeling in Germichay reservoir operation (29 January 2011)
5. Inflow simulation and operation analysis of Arazbaran reservoir (29 January 2011)

- **Awards**

1. Top researcher of the East Azarbaijan state in the academic year of 2019-2020
2. Second top researcher of Faculty of Agriculture in the academic year of 2019-2020
3. Second top researcher of Faculty of Agriculture in the academic year of 2023-2024

- **Publications**

BOOKS

1. Farzin Salmasi, Sattari, M. Taghi and Mahesh Pal. 2012, Modelling energy dissipation over gabion-stepped weir by data mining, LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN 978-3-659-18256-3.

- **Book Chapters**

1. Ramsundram, N., Sattari, M.T., Kaviya, R., Kaarthic, M., Niveditha, M. (2023). Temporal Prediction of Groundwater Levels: A Gap in Generalization. In: Thambidurai, P., Dikshit, A.K. (eds) Impacts of Urbanization on Hydrological Systems in India. Springer, Cham. https://doi.org/10.1007/978-3-031-21618-3_11
2. Nasrin Fathollahzadeh Attar and Mohammad Taghi Sattari. (2023). The application of R software in water science. Earth Observation Data Analytics Using Machine and Deep Learning: Modern tools, applications and challenges. Publisher: IET Digital Library. ISBN: 9781839536175. DOI: 10.1049/PBPC056E_ch11

papers (JCR category)

3. Feizi H, Sattari MT, Milewski A. Improving Stage-Discharge Relationship Modeling Accuracy Using a Hybrid ViT-CNN Framework, Scientific Reports. Accepted, 2025
4. Sattari, M. T., Athari, E., & Aalami, M. T. (2025). Comparison of N-BEATS with Standalone and Hybrid Deep Learning Models in Monthly Inflow Forecasting to the Aras Dam Reservoir: A Feature Selection Analysis. *Journal of Agricultural Sciences*, 31(3), 747-766.
5. Abdi, Erfan, Mohammad Taghi Sattari, Adam Milewski, and Osama Ragab Ibrahim. 2025. "Advancements in Hydrological Modeling: The Role of bRNN-CNN-GRU in Predicting Dam Reservoir Inflow Patterns" *Water* 17, no. 11: 1660. <https://doi.org/10.3390/w17111660>
6. Asghar Rostami, A., Taghi Sattari, M., Apaydin, H., & Milewski, A. (2025). Modeling Flood Susceptibility Utilizing Advanced Ensemble Machine Learning Techniques in the Marand Plain. *Geosciences*, 15(3), 110. <https://doi.org/10.3390/geosciences15030110>
7. Shamloo, N., Sattari, M.T., Kamran, K.V. and Halit Apaydin. (2025). An integrated artificial intelligence-deep learning approach for vegetation canopy assessment and monitoring through satellite images. *Stochastic Environmental Research and Risk Assessment*. <https://doi.org/10.1007/s00477-025-02938-w>
8. Abdollahpour Azad, M. R., Jalali, M. R., Sattari, M. T., Mastouri, R. (2025). Evaporation and precipitation prediction for future time frames via combined machine learning-climate change models: Quri Gol Wetland Case. *Journal of Agricultural Sciences*. <https://doi.org/10.15832/ankutbd.1509731>
9. Mohammad Taghi Sattari, Yasaman Kamrani, Sahar Javidan, Nasrin Fathollahzadeh Attar and Halit Apaydin. 2025. Groundwater quality mapping based on the Wilcox Classification method for agricultural purposes: Qazvin Plain aquifer case (2025-01-02), *Turkish Journal of Engineering*. doi: <https://doi.org/10.31127/tuje.1523574>
10. Mohammad Taghi Sattari, Halit Apaydin, Adam Milewski. 2024. Kernel-based versus tree-based data mining models: On applying suspended sediment load estimation. *Water* 16, no. 20: 2973. <https://doi.org/10.3390/w16202973>
11. **Mohammad Taghi Sattari** and Halit Apaydin. 2024. Application of data driven models in estimating daily reference evapotranspiration in a coastal region. *International Journal of Sustainable Agricultural Management and Informatics*, Vol. 10, No. 3. pp 296-326 <https://doi.org/10.1504/IJSAMI.2024.139728>
12. Arbabi, Sajjad, **Mohammad Taghi Sattari**, Nasrin Fathollahzadeh Attar, Adam Milewski, and Mohamad Sakizadeh. 2024. "Precipitation Modeling Based on Spatio-Temporal Variation in Lake Urmia Basin Using Machine Learning Methods" *Water* 16, no. 9: 1246. <https://doi.org/10.3390/w16091246>
13. Mousavi, S.N., Apaydin, H., **Sattari, M.T.**, Abraham J.P (2024). Extreme pressure coefficients: modelling a hydraulic jump using deep-learning based methods. *Sādhanā* 49, 151. <https://doi.org/10.1007/s12046-024-02515-x>
14. Sureh F S, **Sattari Taghi M**, Rostamzadeh H, Kahya E (2024). Meteorological Drought Assessment and Prediction in Association with Combination of Atmospheric Circulations and Meteorological Parameters via Rule Based Models. *Journal of*

15. Hajar Feizi, Mohammad Taghi Sattari, Halit Apaydin. 2023. A comparative study of different optimization algorithms for the optimum operation of the Mahabad dam reservoir. Results in Engineering. <https://doi.org/10.1016/j.rineng.2023.101664>.
16. Attar, N.F., **Sattari, M.T.**, and Apaydin H. 2024. A Novel Stochastic Tree Model for Daily Streamflow Prediction Based on A Noise Suppression Hybridization Algorithm and Efficient Uncertainty Quantification. Water Resources Management <https://doi.org/10.1007/s11269-023-03688-6>
17. **Sattari, M.T.**, Avram, A., Apaydin, H., Oliviu M. Evaluation of Feature Selection Methods in Estimation of Precipitation Based on Deep Learning Artificial Neural Networks. Water Resour Manage (2023). <https://doi.org/10.1007/s11269-023-03563-4>
18. Sakizadeh, M.; Milewski, A.; Sattari, M.T. Analysis of Long-Term Trend of Stream Flow and Interaction Effect of Land Use and Land Cover on Water Yield by SWAT Model and Statistical Learning in Part of Urmia Lake Basin, Northwest of Iran. Water 2023, 15, 690. <https://doi.org/10.3390/w15040690>.
19. Feizi, H., Sattari, M.T., Mosaferi, M., Halit Apaydin. An image-based deep learning model for water turbidity estimation in laboratory conditions. Int. J. Environ. Sci. Technol. 20, 149–160 (2023). <https://doi.org/10.1007/s13762-022-04531-y>
20. Feizi, H., Sattari, M.T., Prasad, R. Halit Apaydin. Comparative analysis of deep and machine learning approaches for daily carbon monoxide pollutant concentration estimation. Int. J. Environ. Sci. Technol. 20, 1753–1768 (2023). <https://doi.org/10.1007/s13762-022-04702-x>
21. Attar, N.F., Sattari, M.T., Prasad, R. and Apaydin H. Comprehensive review of solar radiation modeling based on artificial intelligence and optimization techniques: future concerns and considerations. Clean Techn Environ Policy (2022). <https://doi.org/10.1007/s10098-022-02434-7>.
22. Mohammad Docharkhehsaz, Touraj Hashemi Nosratabad, Mansour Beirami and Mohammad Taghi Sattari, "Investigation of the Differential Power of Young's Internet Addiction Questionnaire Using the Decision Stump Tree," Computational Intelligence and Neuroscience, vol. 2022, Article ID 3930273, 7 pages, 2022. <https://doi.org/10.1155/2022/3930273>.
23. Farzin Salmasi, Mohammad Taghi Sattari, Halit Apaydin, "Mathematical Based Implicit and Explicit Finite Difference Techniques for Solving the Ground Water Flow Equations Using Spreadsheets", International Journal of Mathematical Sciences and Computing (IJMSC), Vol.8, No.4, pp. 1-14, 2022. DOI: 10.5815/ijmsc.2022.04.01
24. Esmaeel Dodangeh, Kaka Shahedi, Debasmita Misra, Mohammad Taghi Sattari and Binh Thai Pham, Rainfall-runoff Modeling using the Machine Learning and Conceptual Hydrological Models. 2022. Int. J. Hydrology Science and Technology, Vol. 14, No. 3. 10.1504/IJHST.2022.10050152
25. Achite M, Jehanzaib M, Sattari MT, Toubal AK, Elshaboury N, Wałęga A, Krakauer N, Yoo J-Y, Kim T-W. Modern Techniques to Modeling Reference Evapotranspiration in a Semiarid Area Based on ANN and GEP Models. Water. 2022; 14(8):1210. <https://doi.org/10.3390/w14081210>

26. Shamloo, N., Sattari, M.T. & Apaydin, H. Agricultural drought survey using MODIS-based image indices at the regional scale: case study of the Urmia Lake Basin, Iran. *Theor Appl Climatol* (2022). <https://doi.org/10.1007/s00704-022-04023-6>
27. Feizi, H., Apaydin, H., Sattari, M.T. MS Colak and Muhammad Sibtain. Improving reservoir inflow prediction via rolling window and deep learning-based multi-model approach: case study from Ermenek Dam, Turkey. *Stoch Environ Res Risk Assess* (2022). <https://doi.org/10.1007/s00477-022-02185-3>
28. Nazila Shamloo, **Mohammad Taghi Sattari**, Halit Apaydin, Khalil Valizadeh Kamran & Ramendra Prasad (2021) Evapotranspiration estimation using SEBAL algorithm integrated with remote sensing and experimental methods, *International Journal of Digital Earth*, 14(1). DOI: 10.1080/17538947.2021.1962996
29. Apaydin, H., **Taghi Sattari**, M., Falsafian, K., & Prasad, R. (2021). Artificial intelligence modelling integrated with Singular Spectral analysis and Seasonal-Trend decomposition using Loess approaches for streamflow predictions. *Journal of Hydrology*, 600, 126506. <https://doi.org/10.1016/j.jhydrol.2021.126506>
30. **Sattari, M. T.**, Feizi, H., Colak, M. S., Ozturk, A., Ozturk, F., & Apaydin, H. (2021). Surface water quality classification using data mining approaches: Irrigation along the Aladag River. *Irrigation and Drainage*, 70:1227–1246. DOI: 10.1002/ird.2594
31. **MT Sattari**, H Apaydin, Shahab S. Band, Amir Mosavi, and Ramendra Prasad, 2021. Comparative analysis of Kernel-based versus BFGS-ANN and deep learning methods in monthly reference evaporation estimation. *Hydrology and Earth System Sciences*, 25, 603-618. <https://doi.org/10.5194/hess-25-603-2021>
32. Salmasi, F., **Sattari, M. T.**, & Nurcheshmeh, M. (2020). Genetic Programming Approach for Estimating Energy Dissipation of Flow over Cascade Spillways. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*. 45(1), Pages: 443-455. <https://doi.org/10.1007/s40996-020-00541-3>
33. **M. Taghi Sattari**, H. Feizi, S. Samadianfard, K. Falsafian, E. Salwana, (2020), Estimation of monthly and seasonal precipitation: a comparative study using data-driven methods versus hybrid approach, *Measurement*. Vol: 173, Article Number: 108512, doi: <https://doi.org/10.1016/j.measurement.2020.108512>
34. Apaydin H, **Sattari MT** (2020) Deep-learning GIS hybrid approach in precipitation modeling based on spatio-temporal variables in the coastal zone of Turkey. *Climate Research*. 81:149-165. <https://doi.org/10.3354/cr01612>
35. **MT Sattari**, 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
36. **MT Sattari**, R Mirabbasi, S Jarhan, FS Sureh, S 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 (10), 1-16
37. **MT Sattari**, A Avram, H Apaydin, O Matei. 2020. Soil Temperature Estimation with Meteorological Parameters by Using Tree-Based Hybrid Data Mining Models, *Mathematics* 8 (9), 1407.
38. **MT Sattari**, H Feizi, MS Colak, A Ozturk, H Apaydin, F Ozturk. 2020. Estimation of sodium adsorption ratio in a river with kernel-based and decision-tree models. *Environmental Monitoring and Assessment* 192 (9), 1-13

39. **Sattari, M. T.**, Ahamadifar, V., Delirhasannia, R., & Apaydin, H. (2020). Estimation of pan evaporation coefficient in cold and dry climate conditions with a decision-tree model. *Atmósfera*. <https://doi.org/10.20937/ATM.52777>.
40. **MT Sattari**, H Apaydin, S Shamshirband. 2020. Performance Evaluation of Deep Learning-Based Gated Recurrent Units (GRUs) and Tree-Based Models for Estimating ETo by Using Limited Meteorological Variables. *Mathematics* 8 (6). <https://doi.org/10.3390/math8060972>
41. **MT Sattari**, FS Sureh, E Kahya. 2020. Monthly precipitation assessments in association with atmospheric circulation indices by using tree-based models, *Natural Hazards*, Volume: 102 Issue: 3 Pages: 1077-1094.
42. H Apaydin, H Feizi, **MT Sattari**, MS Colak, S Shamshirband, KW Chau. 2020. Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. *Water* 12 (5), 1500.
43. **MT Sattari**, K Falsafian, A Irvem, SN Qasem. 2020. Potential of kernel and tree-based machine-learning models for estimating missing data of rainfall. *Engineering Applications of Computational Fluid Mechanics* 14 (1), 1078-1094. <https://doi.org/10.1080/19942060.2020.1803971>.
44. S Shabani, S Samadianfard, **MT Sattari**, A Mosavi, S Shamshirband. 2020. Modeling pan evaporation using Gaussian process regression K-nearest neighbors random forest and Support Vector machines; comparative analysis. *Atmosphere* 11 (1), 66.
45. F Shaker SUREH, **MT SATTARI**, A IRVEM. 2020. Estimation of monthly precipitation based on machine learning methods by using meteorological variables. *Mustafa Kemal University Journal of Agricultural Sciences* 24, 149-154
46. N Rouzegari, Y Hassanzadeh, **MT Sattari**. 2020. Using the Hybrid Simulated Annealing-M5 Tree Algorithms to Extract the If-Then Operation Rules in a Single Reservoir. *Water Resources Management* 33 (10), 3655-3672
47. **MT Sattari**, M Pal, R Mirabbasi, J Abraham. 2019. Ensemble of M5 model tree based modelling of sodium adsorption ratio. *Journal of AI and Data Mining* 6 (1), 69-78
48. **Mohammad Taghi Sattari**, Arya Farkhondeh and John Patrick Abraham. 2018. Estimation of sodium adsorption n ratio indicator using data mining methods: a case study in Urmia Lake basin, Iran. *Environmental Science and Pollution Research*. 25(5), 4776-4786.
49. **Mohammad Taghi Sattari**, Rasoul Mirabbasi, Reza Shamsi Sushab, John Abraham. 2018. Prediction of groundwater level in Ardebil plain using Support Vector Regression and M5 tree model. *Groundwater*, DOI: 10.1111/gwat.12620. 56(4).
50. **Mohammad Taghi Sattari**, Esmaeel Dodangeh, John Abraham. 2017. Estimation of Daily Soil Temperature via Data Mining Techniques in Semi-Arid Climate Conditions. *Earth Sciences Research Journal*. 21(2). 85-93.
51. Vahid Nourani, **Mohammad Taghi Sattari**, Amir Molaju. 2017. Threshold-Based Hybrid Data Mining Method for Long-Term Maximum Precipitation Forecasting. *Water Resources Management*. 31(9). pp 2645–2658.
52. Bahram Esmaeilzadeh, **Mohammad Taghi Sattari**, Saeed Samadianfard. 2017. Performance Evaluation of ANNs and M5 Model Tree in Sattarkhan Reservoir Inflow Prediction. *ISH Journal of Hydraulic Engineering*. 23(3). 283-292. DOI: 10.1080/09715010.2017.1308277.
53. Salmasi Farzin and **M. Taghi Sattari**. 2017. Predicting Discharge Coefficient of Rectangular Broad Crested Gabion Weir Using M5 Tree Model. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*. DOI 10.1007/s40996-017-0052-5.

54. **M. Taghi Sattari**, Ali RezazadehJoudi and Andrew Kusiak, 2017. Assessment of different methods for estimation of missing data in precipitation studies. *Hydrology Research*. 48(4). 1032-1044. DOI: **10.2166/nh.2016.364**. (Nordic Hydrology)
55. Ghorban Mahtabi and **M. Taghi Sattari**, 2016. Investigation of Hydraulic Jump Characteristics in Rough Beds Using M5 Model Tree. *Jordan Journal of Agricultural Sciences*, 12(2), 631-648.
56. **M. Taghi Sattari**, Ali RezazadehJoudi and Andrew Kusiak, 2016. Estimation of water quality parameters with data-driven models. *Journal American Water Works Association*, 108 (4). 232-239.
57. Saeed Samadianfard, **Mohammad Taghi Sattari**, Ozgur Kisi & Honeyeh Kazemi, 2014. Determining Flow Friction Factor in Irrigation Pipes Using Data Mining and Artificial Intelligence Approaches. *Applied Artificial Intelligence: An International Journal*. 28 (8). 793-813.
58. Saghebian, S.M., Sattari, M.T., Mirabbasi, R. et al. Ground water quality classification by decision tree method in Ardebil region, Iran. *Arab J Geosci* 7, 4767–4777 (2014). <https://doi.org/10.1007/s12517-013-1042-y>
59. **Sattari, M. Taghi**, Mahesh Pal, Kadri Yurekli and Ali Ünlükara, 2013. M5 Model Trees and Neural Networks based modelling of ET₀ in Ankara, Turkey. *Turkish Journal of Engineering and Environmental Sciences*. 37, 211-219.
60. **Mohammad Taghi Sattari**, Halit APAYDIN, Fazli OZTURK. 2013. Stochastic operation analysis of irrigation reservoir in low-flow conditions, case study: Eleviyan reservoir, Iran. *Turkish Journal of Agriculture and Forestry*. 37, 613-622.
61. **Mohammad Taghi Sattari**, Mahesh Pal and Halit APAYDIN. 2013. M5 model tree application in Daily River flow forecasting in Sohu Stream, Turkey. *Water Resources*, 4(3), 233-242.
62. **Mohammad Taghi Sattari**, Halit APAYDIN, Fazli OZTURK and Nazife Baykal. 2012. Application of a data-mining approach to derive operating rules for the Eleviyan irrigation reservoir. *Lake and Reservoir Management*, 28(2), 142-152.
63. **Sattari, M. Taghi**, Kadri Yurekli and Mahesh Pal. 2012. Performance Evaluation of Artificial Neural Network Approaches in Forecasting Reservoir Inflow. *Applied Mathematical Modelling*. 36(6), 2649–2657.
64. **M. Taghi. Sattari**, A. S. Anli., Apaydin, H. and Kodali, S. 2012. Decision trees to determine the possible drought periods in Ankara. *Atmósfera*, 25(1), 65-83.
65. K. Yurekly, **M. Taghi. Sattari**, A. S. Anli and M. A. Hınıs. 2012. Seasonal and annual regional drought prediction by using data-mining approach. *Atmósfera* 25(1), 85-105.
66. Salmasi Farzin, **Sattari, M. Taghi** and Mahesh Pal. 2012. Application of data mining on evaluation of energy dissipation over low gabion stepped weir. *Turkish Journal of Agriculture and Forestry*. 36, 95-106. doi:10.3906/tar-1011-1506.
67. **Sattari, M. Taghi.**, Apaydin, H. and Öztürk F., 2012. Flow estimations for the Sohu Stream using artificial neural networks. *Environmental Earth Science*. 66(7), 2031-2045.
68. Smaeel DODANGEH, **M. Taghi SATTARI**, Neslihan SEÇKİN. 2011. Regional Frequency Analysis of Minimum Flow by L-Moments Method. *Journal of agricultural science*. Ankara University. 17(1), 43-58.
69. **Sattari, M. Taghi.**, Apaydin, H. and Öztürk F., 2009. Operation Analysis of Eleviyan Irrigation Reservoir Dam by Optimization and Stochastic Simulation, *Journal of Stochastic Environmental Research and Risk Assessment*. 23:1187–1201

70. **Sattari, M. Taghi.**, Salmasi, F. ve Öztürk F., 2008. Comparison of different methods used in determination of irrigation reservoir capacity. *Journal of agricultural science. Ankara University.* 14(1), 1-7.
71. **Sattari, M. Taghi**, A. Fakher-Fard, Mohammad Docherkhesaz, Fazlı Öztürk. 2007. Simulation of Savalan irrigation reservoir by using artificial neural networks. *Journal of agricultural science. Ankara University* 13 (4). 337-345.
72. **Sattari, M. Taghi.**, Kodali, S. and Öztürk F., 2006. Application of Deterministic Method in Optimizing Small Irrigation Reservoir Capacity. *Akdeniz University Journal of the Faculty of Agriculture*, 19(2), 261-267.
73. **Sattari, M. Taghi.** Mahesh Pal, Mirabbasi Rasoul and John Abraham. 2018. Ensemble of M5 model tree based modelling of Sodium Adsorption Ratio. *Journal of Artificial Intelligence and Data Mining.* 6(1). 69-78.
74. Sakizadeh **M**, **Sattari, M. Taghi** and Ghorbani H. 2017. A new method to consider spatial risk assessment of cross-correlated heavy metals using geo-statistical simulation. *Journal of Mining & Environment.* 8(3). 373-391. C
75. Esmaeilzadeh, Baharam and **Sattari, M. Taghi.** 2015. Monthly Evapotranspiration Modeling using Intelligent Systems in Tabriz, Iran. *Agriculture Science Developments.* 4(3), 35-40.
76. **Sattari, M. Taghi.**, Yurekli Kadri and Unlukara Ali 2011. Drought Prediction by Using Artificial Neural Networks Approach in Karaman Province. *Research Journal of Agriculture Sciences (Tarım Bilimleri Araştırma Dergisi-TABAD)* ISSN: 1308-3945, www.nobel.gen.tr 4(1), 7-13.

National Journals (In Farsi)

1. Babaei, M. , Sattari, M. T. , Nikmaram, S. , Gholami, H. , masoumi, F. , Pirhayati, M. and Mosaferi, M. (2025). Evaluation of water quality changes in Aras border river downstream and upstream of Khodaafrin Dam using water quality indicators. *Iranian Journal of Soil and Water Research*, 56(2), 503-518. doi: 10.22059/ijswr.2024.379440.669756
2. Allahverdipour, P., Sattari, M. T. (2024). 'Investigating the Maximum Wind Speed and Wind Direction of Synoptic Stations in the East of Lake Urmia', *Journal of Geography and Environmental Hazards*, 13(4), pp. 197-221. doi: 10.22067/geoh.2024.86654.1464
3. Alioghli, S., Sattari, M. T. (2024). 'Evaluation of water resources allocation scenarios of Mahabad basin under the influence of climate change using the WEAP model', *Water and Soil Science*, 34(3), pp. 39-50. doi: 10.22034/ws.2024.58215.2533
4. Atapour, H., Shenavar, N., Sattari, M. T. (2024). Urmia Lake Drying up Crisis in the Mirror of Domestic Researches: A Scientometric Study, *Iran-Water Resources Research*, 20 (1), pp. 52-67. doi: 10.22034/iwrr.2024.430684.2733
5. Sattari, M. T., Babaei, M., Gholami, H., Pirhayati, M., Masoumi, F., Mosaferi, M. Sampling and Evaluating the Water Quality Variables in Aras River Downstream and Upstream of Aras Dam. *Iran-Water Resources Research*, 2024; 19(5): 99-113. doi: 10.22034/iwrr.2024.184659
6. Sattari, M. T., Vahdat, J., Javidan, S. Analysis of 70 Years Daily Precipitation in Tabriz Using Visual Data Mining Approach. *Water and Soil Science*, 2023; 33(3): 125-142. doi: 10.22034/ws.2022.50698.2463
7. Feizi, H., Sattari, M. T., Mosaferi, M. Classification of Water Turbidity and Depth of Secchi Disk using Convolutional Neural Network. *Environment and Water Engineering*, 2023; 9(2): 211-224. doi: 10.22034/ewe.2022.349535.1795
8. Babaei, M., Sattari, M. Management and Simulation of the Latian Multi-purpose Reservoir Dam and Its Performance Evaluation Based on the Operation Policy on Daily Time Scale. *Water and Soil*, 2023; 37(3): 367-382. doi: 10.22067/jsw.2023.81012.1252

9. Feizi, H., Dashti, R., Sattari, M. T., Nourani, V. Application of Teaching-Learning based optimization algorithms in the operation of Eleviyan reservoir considering environmental demand. *Water and Soil Science*, 2023; 33(3): 199-216. doi: 10.22034/ws.2022.522485757.2485
10. Sattari, M. T., Shirini, K., Javidan, S. Evaluating the efficiency of dimensionality reduction methods in improving the accuracy of water quality index modeling in Qizil-Uzen River using machine learning algorithms. *Water and Soil Management and Modelling*, 2024; 4(2): 89-104. doi: 10.22098/mmws.2023.12434.1241
11. Salimi, M., Sattari, M. T., Parsa, J. Investigating the effect of climate change based on different scenarios on the runoff and inflow to Nahand dam reservoir. *Water and Soil Science*, 2023; 33(4): 133-147. doi: 10.22034/ws.2022.52756.2486
12. Shamloo, N., Sattari, M. T., Valizadeh Kamran, K., Apaydin, H. Evaluation of Combined Agricultural Drought Index (CDI), Prediction Methods Based on Satellite Images via Deep Learning and Machine Learning Approaches. *Water and Soil*, 2023; 37(5): 787-807. doi: 10.22067/jsw.2023.82798.1293
13. Salimi, M., Sattari, M. T., Parsa, J. Simulation of Nahand reservoir water allocation and its performance evaluation under developed scenarios using the water evaluation and planning (WEAP) model. *Water and Soil Management and Modelling*, 2024; 4(2): 295-310. doi: 10.22098/mmws.2023.12308.1223
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Research Interests

- Use of data mining and artificial intelligence methods in solar radiation estimation
- Use of optimization and simulation methods in the optimal use of water resources and reservoirs of dams
- Use of data mining and artificial intelligence methods in hydrological studies and water resources
- Use of data mining and artificial intelligence methods in drought, hydrological and water resources allocation studies
- Use of data mining and artificial intelligence methods in river engineering and sediment engineering studies
- The use of data mining and artificial intelligence methods in hydroclimatic studies
- Use of data mining and artificial intelligence methods in hydraulic and structural studies
- Use of data mining and artificial intelligence methods in water quality studies

Software

- Optimization Software: GAMS, WinQSB
- Data Mining Software: See5, Weka
- Statistical Software: Xlstat, Minitab, SPSS, SYSTAT
- Artificial Neural Network Software: Nerosolution

Languages

- Azerbaijani (Mother Tongue)
- Turkish (Mother Tongue)
- Persian (Native)
- English (Fluently)