

# OZGUR KISI

## PERSONAL INFORMATION

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## EDUCATIONAL INFORMATION

- PhD:** 1999-2003 Istanbul Technical University (ITU), Institute of Science and Technology, Hydraulics Division.  
The title of the thesis is '*Modeling of suspended sediment yield in a river cross-section using fuzzy logic*'.
- MSc:** 1997-1999 Erciyes University (EU), Institute of Science and Technology, Hydraulics Division.  
The title of the thesis is '*Ten-stage discrete flood routing for dams having gated spillways*'.
- BSc:** 1993-1997 Cukurova University (CU), Engineering Faculty, Department of Civil Engineering  
1992-1993 Intensive English School of CU for undergraduate students

## WORKING EXPERIENCE

- 2021-2025** : Post. Doc., University of Applied Sciences Lübeck, Dept. of Civil Eng.
- 2017-** : Prof. Dr., Ilia State University, School of Technology, Dept. of Civil Eng.
- 2012-2016** : Prof. Dr., Basari University, Dean of the Faculty of Architectural and Eng.
- 2011-2012** : Prof. Dr., Erciyes University, Head of Civil Eng. Dept.
- 2005-2011** : Assoc. Prof. Dr., Erciyes University
- 2003-2005** : Asst. Prof. Dr., Erciyes University
- 1999-2003** : Research assistant, Institute of Science and Technology, ITU  
Teaching assistant at fluid mechanics course (Summer, 2000)  
Teaching assistant at hydrology course (Spring, 2002)  
Teaching assistant at hydrology course (Spring, 2003)  
Teaching assistant at fluid mechanics course (Summer, 2003)
- 1998-1999** : Research assistant, Institute of Science and Technology, EU
- 1997** : Analysis of floors and beams with finite elements method and the comparison with the classical methods used in practice, final project of undergraduate education
- 1996** : Civil engineering office training, OZIMKO Co, Adana (summer training)
- 1995** : Civil engineering work site training, OZIMKO Co, Adana (summer training)

## BSc LECTURES GIVEN

Calculus  
Introduction to Civil Engineering  
Fluid Mechanics  
Hydraulics  
Hydrology  
Hydraulic Structures  
Computer Programming  
Computer Applications in Engineering Hydrology  
Fuzzy Logic and Civil Engineering Applications  
Artificial Neural Networks and Civil Engineering Applications  
Introduction to Artificial Intelligence

### **MSc AND PhD LECTURES GIVEN**

Artificial Neural Networks and Engineering Applications  
Fuzzy Logic and Engineering Applications  
Programming with Soft Computational Techniques  
Programming with Artificial Intelligence Techniques  
Machine Learning in Water Engineering  
Research Methodology

### **RESEARCH FIELDS**

My research primarily focuses on advancing water resources engineering through the development of innovative modeling and prediction techniques. This includes suspended sediment modeling, streamflow, flood and drought modeling, and novel trend analysis methods. I employ advanced statistical and machine learning (ML) approaches, including explainable ML and deep learning, combined with remote sensing data, empirical mode decomposition, and wavelet analysis. Additionally, I explore spatial and temporal hydroclimatic patterns using cutting-edge graphical trend methods, such as innovative trend analysis, innovative polygon trend analysis and wavelet analysis. I also integrate wavelet analysis, remote sensing, and machine learning with metaheuristic optimization techniques to address global challenges in these domains.

### **PUBLICATIONS**

#### **Journal Papers (SCI/ SCIE)**

**Merabet, K., Di Nunno, F., Granata, F., Kim, S., Adnan, R.M., Heddam, S., Kisi, O., Zounemat-Kermani, M.** Predicting Water Quality Variables using Gradient Boosting Machine: Global versus Local Explainability using SHapley Additive Explanations (SHAP), *Earth Science Informatics*, (accepted for publication).

**Alsulamy, S., Kumar, V., Kisi, O., Kedam, N., Rathnayake, N.** Enhancing Water Level Prediction Using Ensemble Machine Learning Models: A Comparative Analysis, *Water Resources Management*, (accepted for publication).

**Shabbir, M., Chand, S., Iqbal, F., Kisi, O.** A Novel Hybrid Approach (HLEK) for River Inflow Modelling: Case Study of Indus River Basin, Pakistan, *ASCE J. of Hydrologic Eng.*, (accepted for publication).

**Allam, M., Zhang, L., Sun, X., Kisi, O., Kushwaha, N.L., Yongxin, L., Menenti, M., Heddami, S.** Enhancing Chlorophyll-a Predictions Using Optimal Machine Learning Models and Field Spectral Reflectance, *Earth Science Informatics*, (accepted for publication).

**Adnan, R.M., Mo, W., Ewes, A.A., Heddami, S., Kisi, O., Zounemat-Kermani, M.** Enhancing Streamflow Prediction Accuracy: A Comprehensive Analysis of Hybrid Neural Network Models with Runge-Kutta with Aquila Optimizer, *International Journal of Computational Intelligence Systems*, (accepted for publication).

**Piri, J., Kahkha, M.R.R., Oveisi, A.R., Sahragard, H.P., Kisi, O.** Hybrid machine learning approach integrating GMDH and SVR for heavy metal concentration prediction in dust samples, *Environmental Science and Pollution Research*, (accepted for publication).

**Al-Janabi, A.M.S., Dibs, H., Sammen, S.S., Yusuf, B., Ikram, R.M.A., Alzuhairy, S.H., Kisi, O.** Comparison analysis of seepage through homogenous embankment dams using physical, mathematical and numerical models, *Arabian Journal for Science and Engineering*, (accepted for publication).

**Zounemat-Kermani, M., Kermani, S.G., Fadaee, M., Aldallal, A., Kisi, O., Ramezani-Charmahineh, A.** Modeling river water dissolved organic matter using ensemble computing and genetic programming techniques, *Ecology & Hydrobiology*, (accepted for publication).

**Kumar, V., Kedam, N., Kisi, O., Alsulamy, S., Khedherd, K.M., Saleme, M.A.** 2025. A Comparative Study of Machine Learning Models for Daily and Weekly Rainfall Forecasting, *Water Resources Management*, 39, 271–290. <https://doi.org/10.1007/s11269-024-03969-8>.

**Mirkhorli, P., Ghaderi, A., Mohammadnezhad, H., Mohammadi, M., Kisi, O.** 2025. Hydraulic behavior and energy dissipation in Piano key weirs vs. Rectangular labyrinth weirs: A comparative study, *Flow Measurement and Instrumentation*, 102, 102830. <https://doi.org/10.1016/j.flowmeasinst.2025.102830>.

**Lamane, H., Latifa Mouhir, L., Moussadek, R., Baghdad, B., El Bilali, A., Kisi, O.** 2025. Interpreting machine learning models using shapley values in predicting suspended sediment load, *International J. of Sediment Research*, 40(1), 91-107. <https://doi.org/10.1016/j.ijsrc.2024.10.002>.

**Satpathi, A., Chand, N., Setiya, P., Ranjan, R., Nain, A.S., Vishwakarma, D.K., Saleem, K., Obaidullah, A.J., Yadav, K.K., Kisi, O.** 2025. Evaluating statistical and machine learning techniques for sugarcane yield forecasting in the tarai region of North India, *Computers and Electronics in Agriculture*, 229, 109667. <https://doi.org/10.1016/j.compag.2024.109667>.

**Adnan, R.M., Ewees, A.A., Mo, W., Kisi, O., Heddami, S., Parmar, K.S., Zounemat-Kermani, M.** 2025. Enhancing BOD5 Forecasting Accuracy with the ANN-Enhanced Runge

Kutta (ANN-ERUN) Model, *Journal of Environmental Chemical Engineering*, 13(2), 115430 .  
<https://doi.org/10.1016/j.jece.2025.115430>.

**Adnan, R.M., Mostafa, R.R., Chen, Z., Parmar, K.S., Kisi, O., Zounemat-Kermani, M.** (2025). Improved random vector functional link network with an enhanced remora optimization algorithm for predicting monthly streamflow, *Journal of Hydrology*, Volume 650, April 2025, 132496. <https://doi.org/10.1016/j.jhydrol.2024.132496>.

**Adnan, R.M., Mo, W., Heddami, S., Kisi, O., Al-Janabi, A.M.S., Zounemat-Kermani, M.** (2024). Harnessing Deep Learning and Snow Cover Data for Enhanced Runoff Prediction in Snow-Dominated Watersheds, *Atmosphere*, 15, 1407. <https://doi.org/10.3390/atmos15121407>.

**Pourebrahim, S., Ehteram, M., Hadipour, M., Chen, J.E., Kisi, O., El-Shafie, A., Ahmed, A.N.** (2024). Advancements in Evaporation Measurement: Introducing the GRU-MKELM-GPR Model, *Environmental Sciences Europe*, 36:202. <https://doi.org/10.1186/s12302-024-01028-y>.

**Piri, J., Kisi, O.** (2024). Hybrid nonlinear probabilistic model using Monte Carlo simulation and hybrid Support Vector Regression for evaporation predictions, *Hydrological Sciences Journal*, 69(15), 2249–2277. <https://doi.org/10.1080/02626667.2024.2403718>.

**Aliyu, U.S., Cavusoglu, B., Hassanie, S., Abba, S.I., Sammen, S.S., Kisi, O.** (2024). Food, energy, and water security sustainability; an asymmetric approach for achieving sustainable development goals, *Discover Sustainability*, 5:417 | <https://doi.org/10.1007/s43621-024-00557-z>.

**Jannatkhan, M., Davarpanah, R., Fakouri, B., Kisi, O.** (2024). Evaluation of total dissolved solids in rivers by improved neuro fuzzy approaches using metaheuristic algorithms, *Earth Science Informatics*, 1501–1522. <https://doi.org/10.1007/s12145-024-01220-x>.

**Adnan, R.M., Keshtegar, B., Abusurrah, M., Kisi, O., Alkabaa, A.S.** (2024). Enhancing Solar Radiation Prediction Accuracy: A Hybrid Machine Learning Approach Integrating Response Surface Method and Support Vector Regression, *Ain Shams Engineering Journal*, 15(11), 103034. <https://doi.org/10.1016/j.asej.2024.103034>.

**Pandit, P., Sagar, A., Ghose, B., Paul, M., Kisi, O., Vishwakarma, D.K., Mansour, L., Yadav, K.K.** (2024). Hybrid modeling approaches for agricultural commodity prices using CEEMDAN and time delay neural networks, *Scientific Reports*, 14, 26639. <https://doi.org/10.1038/s41598-024-74503-4>.

**Tripathi, S., Kaur, A., Brar, A.S., Sekhon, K.S., Singh, S., Malik, A., Kisi, O.** (2024). Optimizing yield and water productivity in summer mung bean (*Vigna radiata L.*) through crop residue management and irrigation strategies, *BMC Plant Biology*, 24, 1012. <https://doi.org/10.1186/s12870-024-05640-1>.

**Ikram, M., Liu, H., Adnan, R.M., Kisi, O., Mo, W., Al-Janabi, A.M.S.** Enhancing the Prediction of Influent Total Nitrogen in Wastewater Treatment Plant Using Adaptive Neuro-

Fuzzy Inference System–Gradient-Based Optimization Algorithm, *Water*, 16(21), 3038. <https://doi.org/10.3390/w16213038>.

**Seyedian, S.M., Kisi, O., Parsaie, A., Kashani, M.** (2024). Improving the Reliability of Compound Channel Discharge Prediction Using Machine Learning Techniques and Resampling Methods, *Water Resources Management*, 38, 4685–4709. <https://doi.org/10.1007/s11269-024-03883-z>.

**Morovati, R., Kisi, O.** 2024. Utilizing Hybrid Machine Learning Techniques and Gridded Precipitation Data for Advanced Discharge Simulation in Under-Monitored River Basins, *Hydrology*, 11(4), 48. <https://doi.org/10.3390/hydrology11040048>.

**Kisi, O., Azamathulla, H.M., Cevat, F., Kulls, C., Kuhdaragh, M., Fuladipanah, M.** 2024. Enhancing river flow predictions: Comparative analysis of machine learning approaches in modeling stage-discharge relationship, *Results in Engineering*, 22, 102017. <https://doi.org/10.1016/j.rineng.2024.102017>.

**Samani, S., Vadiati, M., Kisi, O., Ghasemi, L., Farajzadeh, R.** (2024). Qanat discharge prediction using a comparative analysis of machine learning methods, *Earth Science Informatics*, 17, 4597–4618. <https://doi.org/10.1007/s12145-024-01409-0>.

**Idowu, M., Kulls, C., Kisi, O.** (2024). A new method for monthly streamflow prediction using multi-source data: Range Dependent Multivariate Adaptive Regression Splines-Genetic Algorithm, *Hydrological Sciences Journal*, 69(13), 1860–1880. <https://doi.org/10.1080/02626667.2024.2394639>.

**Ullah, S., Ali, U., Rashid, M., Haider, S., Kisi, O., Vishwakarma, D.K., Raza, A., Alataway, A., Dewidar, A.Z., Mattar, M.A.** (2024). Evaluating land use and climate change impacts on Ravi river flows using GIS and hydrological modeling approach, *Scientific Reports*, 14, 22080. <https://doi.org/10.1038/s41598-024-73355-2>.

**Boudjerda, M., Touaibia, B., MihouBi, M.K., Kisi, O., Ehteram, M., El-Shafie, A.** (2024). Optimization of reservoir operation by sine cosine algorithm: A case of study in Algeria, *Sustainable Computing: Informatics and Systems*, 44, 101035. <https://doi.org/10.1016/j.suscom.2024.101035>.

**Gupta, S.K., Kumar, P., Kishore, G., Ali, R., Al-Ansari, N., Vishwakarma, D.K., Kuriqi, A., Pham, Q.B., Kisi, O., Heddami, S., Mattar, M.A.** (2024). Sensitivity of Daily References Evapotranspiration to Weather Variables in Tropical Savanna: a modelling framework based on neural network, *Applied Water Science*, 14, 138. <https://doi.org/10.1007/s13201-024-02195-2>.

**Shabbir, M., Chand, S., Iqbal, F., Kisi, O.** (2024). Hybrid Approach for Streamflow Prediction: LASSO-Hampel Filter Integration with Support Vector Machines, Artificial Neural Networks, and Autoregressive Distributed Lag Models, *Water Resources Management*, 38, 4179–4196. <https://doi.org/10.1007/s11269-024-03858-0>.

**Mahtabi, G., Kisi, O., Mozaffari, S., Taran, F.** (2024). Predictive Modeling of Daily Precipitation Occurrence Using Weather Data of Prior Days in Various Climates, *Earth Science Informatics*, 17, 2381–2397. <https://doi.org/10.1007/s12145-024-01289-4>.

**Heidari, S., Vadiati, M., Nejad, S.A.G., Sarhadi, J., Kisi, O.** (2024). Modeling Zn availability and uptake by citrus plants using easily measured soil characteristics, *Environmental Modeling & Assessment*, 29, 883–900. <https://doi.org/10.1007/s10666-024-09962-0>.

**Karbasi, M., Ghasemian, M., Jamei, M., Malik, A., Kisi, O.** (2024). Developing Extended and Unscented Kalman Filter Based Neural Networks to Predict Cluster Induced Roughness in Gravel Bed Rivers, *Water Resources Management*, 38, 3023–3048. <https://doi.org/10.1007/s11269-024-03803-1>.

**Moghanloo, M., Vaghefi, M., Ghodsian, M., Kisi, O.** (2024). The Influence of Collar Parameters on Local Scour Mechanism around the Circular Pier at the Bend, *Applied Water Science*, 14, 194. <https://doi.org/10.1007/s13201-024-02257-5>.

**Kisi, O., Heddam, S., Parmar, K.S., Yaseen, Z.M., Kulls, C.** (2024) Improved monthly streamflow prediction using integrated multivariate adaptive regression spline with K-means clustering: implementation of reanalyzed remote sensing data. *Stoch Environ Res Risk Assess.* 38, 2489–2519. <https://doi.org/10.1007/s00477-024-02692-5>.

**Mirboluki, A., Mehraein, M., Kisi, O., Kuriqi, A., Barati, R.** (2024) Groundwater level estimation using improved deep learning and soft computing methods, *Earth Science Informatics*, 17, 2587–2608. <https://doi.org/10.1007/s12145-024-01300-y>.

**Tulla, P.S., Kumar, P., Vishwakarma, D.K., Kumar, R., Kuriqi, A., Kushwaha, N.L., Rajput, J., Srivastava, A., Pham, Q.B., Panda, K.C., Kisi, O.** 2024. Daily suspended sediment yield estimation using soft-computing algorithms for hilly watersheds in a data-scarce situation: a case study Bino watershed, Uttarakhand, *Theoretical and Applied Climatology*, 155, 4023–4047. <https://doi.org/10.1007/s00704-024-04862-5>.

**Adnan, R.M., Khosravinia, P., Kisi, O., Nikpour, M.R., Dai, H-L., Osmani, M., Ghazaei, S.A.** 2024. Modeling dimensionless experimental discharge of combined weir-orifices using multi-phase metaheuristic algorithm-based neuro fuzzy approach, *Applied Water Science*, 14, 40. <https://doi.org/10.1007/s13201-023-02094-y>.

**Nakhaei, P., Kisi O., Nakhaei, M., Fathollahi-Fard, A.M., Gheibi, M.** 2024. Assessment of Climate Change on River Streamflow under Different Representative Concentration Pathways, *Journal of Environmental Management*, 366, 121754. <https://doi.org/10.1016/j.jenvman.2024.121754>.

**Mirkhorli, P., Ghaderi, A., Sanami, F.A., Mohammadi, M., Kuriqi, A., Kisi, O.** 2024. An Investigation on Hydraulic Aspects of Rectangular Labyrinth Pool and Weir Fishway Using FLOW-3D, *Arabian Journal for Science and Engineering*, 49, 6061–6087. <https://doi.org/10.1007/s13369-023-08537-7>.

**Sidek, LM, Mohiyaden, HA, Marufuzzaman, M., Noh, SM, Heddham, S., Ehteram, M., Kisi, O., Sammen, S.S.** 2024. Developing an Ensembled Machine Learning Model for Predicting Water Quality Index in Johor River Basin, *Environmental Sciences Europe*, 36, 67. <https://doi.org/10.1186/s12302-024-00897-7>.

**Adnan, R.M., Mirboluki, A., Mehraein, M., Malik, A., Heddham, S., Kisi, O.** 2024. Improved prediction of monthly streamflow in a mountainous region by Metaheuristic-Enhanced deep learning and machine learning models using hydroclimatic data, *Theoretical and Applied Climatology*, 155, 205–228. <https://doi.org/10.1007/s00704-023-04624-9>.

**Seyedian, S.M., Kisi, O.** 2024. Uncertainty analysis of discharge coefficient predicted for rectangular side weir using machine learning methods, *Journal of Hydrology and Hydromechanics*, 72, 1, 113–130. <https://doi.org/10.2478/johh-2023-0043>.

**Fuladipanah, M., Azamathulla, H. Md., Kisi, O., Kouhdaragh, M., Mandala, V.** 2024. Quantitative forecasting of bed sediment load in river engineering: an investigation into machine learning methodologies for complex phenomena. *Water Supply*, 24 (2): 585–600. <https://doi.org/10.2166/ws.2024.017>.

**Adnan, R.M., Mostafa, R.R., Dai, H-L, Mansouri, E., Kisi, O., Zounemat-Kermani, M.** 2024. Comparison of improved relevance vector machines for streamflow predictions, *Journal of Forecasting*, 43, 1, 159-181. <https://doi.org/10.1002/for.3028>.

**Sammen, S.S., Kisi, O., Ehteram, M., El-Shafie, A., Al-Ansari, N., Ghorbani, M.A., Bhat, S.A., Ahmed, A.N., Shahid, S.** 2023. Rainfall modeling using two different neural networks improved by metaheuristic algorithms, *Environmental Sciences Europe*, 35, 112. <https://doi.org/10.1186/s12302-023-00818-0>.

**Rasoulzadeh, A., Mostafazadeh, R., Mobaser, J.A., Alaei, N., Hazbavi, Z., Kisi, O.** 2023. Quantifying landscape pattern-hydrological process linkage in North-west Iran, *Atmosphere*, 14(12), 1814; <https://doi.org/10.3390/atmos14121814>.

**Sammen, S.S., Kisi, O., Al-Janabi, A.M.S., Elbeltagi, A., Zounemat-Kermani, M.** 2023. Estimation of reference evapotranspiration in semi-arid-region with limited climatic inputs using metaheuristic regression methods, *Water*, 15, 3449. <https://doi.org/10.3390/w15193449>.

**Heddham, S., Merabet, K., Difi, S., Kim, S., Ptak, M., Sojka, M., Zounemat-Kermani, M., Kisi, O.** 2023. River Water Temperature Prediction Using Hybrid Machine Learning Coupled Signal Decomposition: EWT versus MODWT, *Ecological Informatics*, 78, 102376. <https://doi.org/10.1016/j.ecoinf.2023.102376>.

**Bayatvarkeshi, M., Imteaz, M.A., Kisi, O., Farahani M., Ghabaei, M., Al-Janabi, M.S., Hashim, B.M., Al-Ramadan, B., Yaseen, Z.M.** 2023. Drought trends projection under future climate change scenarios for Iran region, *PLOS ONE*, 18(11): e0290698. <https://doi.org/10.1371/journal.pone.0290698>.

**Adnan, R.M., Dai, H-L, Kisi, O., Heddami, S., Kim, S., Kull, C., Zounemat-Kermani, M.** 2023. Modelling biochemical oxygen demand using improved neuro fuzzy approach by marine predators algorithm, *Environmental Science and Pollution Research*, 30, 94312–94333. <https://doi.org/10.1007/s11356-023-28935-6>.

**Dashti, Z., Nakhaei, M., Vadiati, M., Karami, G.H., Kisi, O.** 2023. Estimation of unconfined aquifer transmissivity using a comparative study of machine learning models, *Water Resources Management*, 37, 4909–4931. <https://doi.org/10.1007/s11269-023-03588-9>.

**Sammen, S.S., Kisi, O., Ehteram, M., El-Shafie, A., Al-Ansari, N., Ghorbani, M.A., Bhat, S.A., Ahmed, A.N., Shahid, S.** 2023. Rainfall modeling using two different neural networks improved by metaheuristic algorithms, *Environmental Sciences Europe*, 35, 112. <https://doi.org/10.1186/s12302-023-00818-0>.

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**Adnan, R.M., Mostafa, R.R., Chen, Z., Heddami, S., Masood, A., Kisi, O.** 2023. Enhancing accuracy of extreme learning machine in predicting river flow using improved reptile search algorithm, *Stochastic Environmental Research and Risk Assessment*, 37, 3063–3083 (2023). <https://doi.org/10.1007/s00477-023-02435-y>.

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**Alizamir, M., Ahmed, K.O., Shiri, J., Fard, A.F., Kim, S., Heddami, S., Kisi, O.** 2023. A new insight for daily solar radiation prediction by meteorological data using an advanced artificial intelligence algorithm: Deep extreme learning machine integrated with variational mode decomposition technique, *Sustainability*, 15, 11275. <https://doi.org/10.3390/su151411275>.

**Adnan, R.M., Cao, X., Sadeghifar, T., Kuriqi, A., Kisi, O., Shahid, S.** 2023. Improving significant wave height prediction using neuro fuzzy approach and marine predators algorithm, *Journal of Marine Science and Engineering*, 11, 1163. <https://doi.org/10.3390/jmse11061163>.

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**Kisi, O., Fedakar, H.I.** 2014. Modeling of Suspended Sediment Concentration Carried in Natural Streams Using Fuzzy Genetic Approach. In: Islam T., Srivastava P., Gupta M., Zhu X., Mukherjee S. (eds) *Computational Intelligence Techniques in Earth and Environmental Sciences*. Springer, Dordrecht. [https://doi.org/10.1007/978-94-017-8642-3\\_10](https://doi.org/10.1007/978-94-017-8642-3_10), 175-196.

### **Book Editorship**

**Chaminé, H.I., Barbieri, M., Kisi, O., Chen, M., Merkel, B.J.** (Eds.), (2018). *Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources*, Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia.

**Deo, R., Samui, P., Kisi, O., Zaher, Y.** (Eds.), (2020). *Intelligent Data Analytics for Decision-Support Systems in Hazard Mitigation: Theory and Practice of Hazard Mitigation*, Springer Transactions in Civil and Environmental Engineering, Springer, Singapore.

**Kisi, O.** (Ed.), (2021). *Machine Learning with Metaheuristic Algorithms for Sustainable Water Resources Management*, MDPI, Switzerland. <https://www.mdpi.com/books/pdfview/book/4122>

### **Conference Papers**

**Ghasemi, L., Vadiati, M., and Kisi, O.,** 2023. A comparative study of machine learning approaches with wavelet transforms for groundwater level modeling (Case study: Unconfined Tehran aquifer, Iran), EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-4463, <https://doi.org/10.5194/egusphere-egu23-4463>.

**Aoulmi, Y., Marouf, N., Amireche, M., Kisi, O., Shubair, R.M.** 2021. Accuracy Improvement for Daily Runoff Predicting Models Through Metaheuristic Approaches, 4th Conference of the Arabian Journal of Geosciences (CAJG), Springer (submitted for presentation).

**Kisi, O., Sanikhani, H.** (2021). Modeling Short-Term Groundwater-Level Fluctuations Using Multivariate Adaptive Regression Spline. In: Abrunhosa, M., Chambel, A., Peppoloni, S., Chaminé, H.I. (eds) *Advances in Geoethics and Groundwater Management : Theory and Practice for a Sustainable Development*. Advances in Science, Technology & Innovation. Springer, Cham. [https://doi.org/10.1007/978-3-030-59320-9\\_41](https://doi.org/10.1007/978-3-030-59320-9_41).

**Adnan, R.M., Liang, Z., Kuriqi, A., Kisi, O., Malik, A., Li, B.** 2020. Streamflow forecasting using heuristic machine learning methods, 2020 International Conference on Computer and Information Sciences (ICCIS), October 13-15.

**Sanikhani, H., Mirabbasi, R., Kisi, O.** 2019. Pan evaporation modelling in Central India using soft computing techniques, 11<sup>th</sup> World Congress on Water Resources and Environment (EWRA 2019) “Managing Water Resources for a Sustainable Future”, 25-29 June, Madrid, Spain, pp: 209-210. [http://ewra.net/pages/EWRA2019\\_Proceedings.pdf](http://ewra.net/pages/EWRA2019_Proceedings.pdf).

**Geyikli, M.S., Demir, V., Kisi, O.** 2016. Orta Karadeniz Bölümünde Toplam Yağışlar Artıyor mu Azalıyor mu? *International Symposium of Water and Wastewater Management*, October 26-28, Malatya, Turkey.

**Demir, V., Kisi, O.** 2016. Comparison of Mann-Kendall and innovative trend method (Şen trend) for monthly total precipitation (Middle Black Sea Region, Turkey), 3rd International Balkans Conference on Challenges of Civil Engineering, 3-BCCCE, 19-21 May 2016, Epoka University, Tirana, Albania, 344-351.

**Ay, M., Kisi, O.** 2015. Trend analysis of streamflow and sediment variables, VIII. Ulusal Hidroloji Kongresi, 8-10 Ekim, Harran Üniversitesi, Şanlıurfa, 289-299.

**Demir, V., Kisi, O.** 2015. Determinaton of inundation maps by using geographic information systems: Mert River (Samsun), VIII. Ulusal Hidroloji Kongresi, 8-10 Ekim, Harran Üniversitesi, Şanlıurfa, 107-120.

**Demir, V., Kisi, O.** 2015. Research on the flood maps of Samsun Mert River using HEC-RAS and Geographic Information Systems: Annual Instantaneous Maximum Floods (Turkish), Basari Öğrenci Symposium, 8 Mayıs, Canik Basari University, p. 1-6.

**Demir, V., Aktaş, B., Akgül, B., Eğmen B., Kisi, O.** 2015. Flood Modeling with FLO-2D Software (Turkish), Başarı Öğrenci Symposium, 8 Mayıs, Canik Basari University, Samsun, p. 7-24.

**Ay, M., Kisi, O.** 2014. Trend analysis of streamflow in the Kizilirmak River, Turkey, *11th International Congress on Advances in Civil Engineering*, 21-25 October, Istanbul Technical University, Istanbul, HYDRO-8, Proc. No: 1042.

**Kisi, O., Demir, V.** 2014. Evapotranspiration modeling using six different multi-layer perceptron algorithms, *International Civil Engineering & Architecture Symposium for Academicians*, ICESA 2014, 17-20 May, Antalya, Turkey, pp. 115.

**Aydin, K., Kisi, O.** 2014. Efficacy of hybrid neuro fuzzy system in detecting damage in structural beam elements, *International Civil Engineering & Architecture Symposium for Academicians*, ICESA 2014, 17-20 May, Antalya, Turkey, pp. 9.

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**Kisi, O., Latifoglu, L., Latifoglu, F., Genc, O.** Prediction of Hydrological Data Using Empirical Mode Decomposition and Artificial Neural Networks (Turkish), *Flood and Landslide Symposium*, October 24-26, 2013, Karadeniz Technical University, Trabzon, 433-441.

**Kisi, O., Ay, M.** 2013. Investigation of Rainfall Trends Based on Monthly Total Precipitation Heights in Some Provinces of Turkey (Turkish), *VI. National Hydrology Congress*, September 26-27, Suleyman Demirel University, Isparta, 513-521.

**Cobaner, M., Citakoglu, H., Haktanir, T., Kisi, O., Ugurlu, A.** 2013. Modification of the Hargreaves-Samani Equation for Calculating Reference Evapotranspiration in Coastal Areas (Turkish), *VI. National Hydrology Congress*, September 26-27, Suleyman Demirel University, Isparta, 109-118.

**Cobaner, M., Citakoglu, H., Haktanir, T., Kisi, O., Yurtal, R., Karaboran, O.** 2013. Modifying Ritchie equation for estimation of reference evapotranspiration at coastal regions of Anatolia, *2<sup>nd</sup> International Balkans Conference on Challenges of Civil Engineering*, BCCCE, 23-25 May, Epoka University, Tirana, Albania, pp. 901.

**Ay, M., Kisi, O.** 2013. Investigation of Rainfall Trends in Some Provinces of Turkey (Turkish), *III. Turkish Climate Change Congress*, TIKDEK 2013, June 3-5, Istanbul, pp. 109.

**Kisi, O., Ay, M.** 2013. Application of Artificial Intelligence in the Field of Water Resources (Turkish), *6<sup>th</sup> Engineering and Technology Symposium*, April 25-26, Cankaya University, Ankara, pp. 3.

**Kisi, O., Ay, M.** 2013. Modelling COD concentration by using three different ANFIS techniques, *2<sup>nd</sup> International Balkans Conference on Challenges of Civil Engineering*, BCCCE, 23-25 May, Epoka University, Tirana, Albania, pp. 477.

**Ay, M., Kisi, O.** 2013. Modeling Dissolved Oxygen Concentration Using Neural Network and ARMA Techniques, *6<sup>th</sup> International Perspective on Water Resources & Environment Conference*, IPWE 2013, 7-9 January, Izmir, Turkey, Proc. No: 24.

**Citakoglu, H., Kisi, O., Haktanir, T., Cobaner, M.** 2013. Modifying Hargreaves Equation for Estimation of Reference Evapotranspiration the Mediterranean Region, *6<sup>th</sup> International*

*Perspective on Water Resources & Environment Conference*, IPWE 2013, 7-9 January, Izmir, Turkey, Poster. No: 640.

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**Sanikhani, H., Farzin, S., Zarghami, M., Kisi, O.** 2013. Comparison of Artificial Neural Network with Neuro-fuzzy Systems for Forecasting Water Level Fluctuation of Urmia Lake, *6<sup>th</sup> International Perspective on Water Resources & Environment Conference*, IPWE 2013, 7-9 January, Izmir, Turkey, Poster No: 121.

**Citakoglu, H., Kisi, O., Haktanir, T., Cobaner, M.** 2012. Modification of the Hargreaves Equation for Calculating Reference Evapotranspiration in the Central Anatolia Region (Turkish), *100th Year Technical Congress in Civil Engineering*, November 22-24, Yıldız Technical University, Istanbul.

**Kisi, O., Ay, M.** 2012. Comparison of ANN and ANFIS techniques in modeling dissolved oxygen, *Sixteenth International Water Technology Conference*, IWTC-16 2012, 7-10 May, Istanbul, Turkey, pp. 141.

**Landeras, G., Lopez, J.J., Kisi, O., Shiri, J.** 2012. Temperature based daily incoming solar radiation modeling based on gene expression programming, neuro-fuzzy and neural network computing techniques, *Geophysical Research Abstracts*, Vol. 14, EGU2012-2720, EGU General Assembly. <https://meetingorganizer.copernicus.org/EGU2012/EGU2012-2720.pdf>.

**Kisi, O., Fedakar, H.I.** 2011. Prediction of Suspended Sediment Concentration Using Fuzzy-Genetic Approach, *Innovation as a Function of Engineering Development Conference*, 25-26 November, Nis, Serbia, 109-124.

**Ay, M., Kisi, O.** 2011. Modeling of Salt Concentration with Na<sup>+</sup> (Ca<sup>++</sup> + Mg<sup>++</sup>), HCO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, and SO<sub>4</sub><sup>-2</sup> Variables Affecting Irrigation Water Quality (Turkish), *II. National Soil and Water Resources Congress*, November 22-25, Ankara, 104-111.

**Kisi, O., Ay, M.** 2011. Modeling Dissolved Oxygen (DO) Concentration Using Different Neural Network Technique, *International Balkans Conference on Challenges of Civil Engineering*, BCCCE, 19-21 May, EPOKA University, Tirana, ALBANIA, p. 122.

**Kisi, O., Ardicioglu, M., Cobaner, M.,** 2010. Wavelet Regression Model as an Alternative to Neural Networks for Monthly Streamflow Forecasting, *9th International Congress on Advances in Civil Engineering*, 27-30 September, Karadeniz Technical University, Trabzon, Turkey, pp. 37.

**Bilhan, O., Emiroglu, M.E., Kisi, O.,** 2010. Application of Artificial Intelligence Methods for the Estimation of Discharge Capacity of Side Weirs, *9th International Congress on Advances in Civil Engineering*, 27-30 September, Karadeniz Technical University, Trabzon, Turkey, pp. 201.

**Kisi, O., Shiri, J.,** 2010. A Comparison of Genetic Programming and ANFIS in Forecasting Daily, Monthly and Yearly Streamflows, INISTA'2010, International Symposium on INnovations in Intelligent SysTems and Applications, 21-24 June, Kayseri & Cappadocia, TURKEY, 118-122.

**Kisi, O., Guneş, M., Yasli, E.** 2010. Prediction of Sultan Sazligi Lake Water Levels Using Artificial Neural Network - Wavelet Model (Turkish), *VI. National Hydrology Congress*, September 22-24, Pamukkale University, Denizli, 674-685.

**Unal, B., Cobaner, M., Kisi, O.** 2010. stimation of Evapotranspiration Amount Using Artificial Neural Networks (Turkish), *VI. National Hydrology Congress*, September 22-24, Pamukkale University, Denizli, 229-242.

**Kisi, O.,** 2009. Determination of Stage-Discharge Relationships Using Dynamic Regression and Rating Curves (Turkish), *4th National Water Engineering Symposium*, July 06-10, Istanbul, 439-447.

**Cobaner, M., Unal, B., Kisi, O.,** 2009. Estimation of Monthly Inflows to Çatalan Dam Using Wavelet Transform Technique (Turkish), *4th National Water Engineering Symposium*, July 06-10, İstanbul, 421-428.

**Kisi, O.,Yuksel, I., Dogan, E.,** 2008. Estimating Suspended Sediment Load of Natural Rivers Using Different ANN Techniques, *8th International Congress on Advances in Civil Engineering*, 15-17 September, Eastern Mediterranean University, North Cyprus, 541-549.

**Yuksel, I., Kisi, O., Kaygusuz, K., Sandalci, M., Dogan, E.,** 2008. Water Resources Management for Small Hydropower in Turkey, *8th International Congress on Advances in Civil Engineering*, 15-17 September, Eastern Mediterranean University, North Cyprus, 521-532.

**Partal, T., Kisi, O.,** 2008. Rainfall Prediction Using Fuzzy Artificial Neural Network and Wavelet Analysis (Turkish), *Symposium on Modern Methods in Science (BMYS'2008)*, October 15-17, Osmangazi University, Eskisehir, 301-310.

**Aytek, A., Kisi, O.,** 2008. A New Approach to Modeling Suspended Sediment in Rivers Using Genetic Programming (Turkish), *Symposium on Modern Methods in Science (BMYS'2008)*, October 15-17, Osmangazi University, Eskişehir, 387-395.

**Haktanir, T., Cobaner, M., Ozturk, O., Kisi, O., Ardicioglu, M., Ugurlu, A.,** 2008. Recurrence Analysis of Annual Instantaneous Maximum Flow Series Recorded at 2 Stations and 14 Consecutive Standard Duration Annual Rainfall Peak Series at 1 Station in the Trabzon Area (Turkish), *Flood, Landslide, and Riverbed Protection Conference*, August 07-08, Trabzon, 61-72.

**Haktanir, T., Cobaner, M., Ozturk, O., Kisi, O., Ardicioglu, M., Ugurlu, A.,** 2008. Recurrence Analysis of Annual Flood Peaks of Five Rivers and Annual Rainfall Peaks of Four

Stations in the Van Lake Basin (Turkish), *Van Lake Hydrology and Pollution Conference*, August 21-22, Van, 29-41.

**Kisi, O., Haktanir, T., Ardicioglu, M., Ozturk, O., Yalcin, E., Uludag, S.**, 2007. Modeling the Amount of Sediment Transported in Natural Rivers Using Rating Curves (Turkish), *III. National Water Engineering Symposium*, September 10-14, Gumuldur, Izmir, 499-509.

**Kisi, O., Nas, N.**, 2007. Estimation of suspended sediment in rivers using artificial intelligence methods, *Fifth Hydrology Congress*, Middle East Technical University, 5-7 Eylül, Ankara, 299-308.

**Cinakli, S., Boyukata, M., Kisi, O., Belchior, J.C.**, 2007. Artificial neural networks applications for prediction of magnetoresistance of Ni<sub>81</sub>Fe<sub>19</sub> film, *24th International Physics Congress*, 28-31 August, Malatya, Turkey, p.406.

**Kisi, O., Ozturk, O.**, 2007. Forecasting River Flows and Estimating Missing Data Using Soft Computing Techniques, *International Congress on River Basin Management*, 22-24 March, Antalya, Turkey, p.655.

**Kisi, O.** 2006. Modeling Evaporation Using Multi-layer Perceptron and Radial Basis Neural Networks, *Seventh International Congress on Advances in Civil Engineering*, Yildiz Technical University, 11-13 October, Istanbul, p.341.

**Aydin, K., Kisi, O.** 2006. Estimate of Daily Evaporation through Sugeno Fuzzy System, *Seventh International Congress on Advances in Civil Engineering*, Yildiz Technical University, 11-13 October, Istanbul, p.334.

**Unal, B., Cobaner, M., Kisi, O.** 2006. Estimation of river sediment load using Sugeno Fuzzy Logic, *Seventh International Congress on Advances in Civil Engineering*, Yildiz Technical University, 11-13 October, Istanbul, p.332.

**Kisi, O.**, 2006. Wind speed estimation using Takagi-Sugeno-Kank fuzzy logic approach, *Sixth National Renewable Energy Symposium*, 25-27 May, Isparta, Turkey, 765-774.

**Kisi, O.**, 2005. Modelling evaporation by artificial neural networks using meteorological data, *Symposium on Modern Methods in Science (BMYS'2005)*, 16-18 November, Kocaeli, Turkey, 790-797.

**Kisi, O.**, 2005. Determination of stage-discharge relationship of Kızılırmak River by multi-layer neural networks, *Symposium on Water Resources Engineering II*, 11-24 October, Izmir, Turkey, 725-735.

**Kisi, O., Cengiz, M. T., Unes, F.**, 2004. Artificial neural networks for lake level modelling, *Conference on Water Observation and Information System for Decision Support (BALWOIS)*, 25-29 May, Ohrid, Macedonia, p.270.

**Kisi, O.**, 2004. Prediction of Filyos Stream's flows using neural networks and regression techniques, Fourth Hydrology Congress, 23-25 June, Istanbul, Turkey, 347-353.

**Kisi, O.**, 2004. Wind speed estimation by the artificial neural networks using meteorological data, Fifth National Renewable Energy Symposium, 26-28 May, Istanbul, Turkey, 45-52.

**Kisi, O., Partal T.**, 2003. Wind velocity forecasting using artificial neural networks and auto regressive models, Symposium on Atmosphere Science III, Istanbul Technical University (ITU), Istanbul, Turkey, 166-172.

**Kisi, O.**, 2002. River sediment yield modeling using artificial neural networks, *ASCE's First Virtual World Congress for Civil Engineering*, June-September, Web-site: <http://www.ceworld.org/ceworld/Presentations/WaterandEnvironment/Kisi.cfm>.

**Toprak, Z. F., Kisi, O., Aytek, A., Savcı, M. E.**, 2002. The determination of the monthly crop water requirement by fuzzy logic approach, *Fifth International Congress on Advances in Civil Engineering*, Istanbul Technical University, 25-27 September, Istanbul, Turkey, 1203-1212.

**Kisi, O., Aytek, A., Toprak, Z. F.**, 2002. River suspended sediment forecasting using artificial neural networks, *Fifth International Congress on Advances in Civil Engineering*, Istanbul Technical University, 25-27 September, Istanbul, Turkey, 1271-1280.

**Kisi, O.**, 2002. The prediction of hourly mean wind velocities with artificial neural networks, *Fourth National Renewable Energy Symposium, (UTES'2002)*, October, Istanbul, Turkey, 429-436.

**Kisi, O., Aydın, S.**, 2001. Modeling of GoksudereRiver flow by using artificial neural networks, *International Symposium on Water Resources and Environmental Impact Assessment*, July, Istanbul, Turkey, 377-388.

**Kisi, O.**, 2001. An application about streamflow forecasting, *Symposium on Modern methods in Engineering (MMYS'2001)*, September, Istanbul, Turkey, 137-144.

**Kisi, O., Unes, F., Cengiz, M. T.**, 2001. Flood frequency analysis of Antalya extreme precipitations, *First Water Congress*, Ocak, Istanbul, Turkey, 197-206.

**Kara, H. B., Kaya, Z., Kisi, O.**, 1999. An investigation of Aşağı Beyçayır(Sarız-Kayseri) landslide, *Landslide Symposium*, May, Adana, Turkey.

**Kara, H. B., Ardichoglu, M., Kisi, O., Aktas, O.**, 1998. Slope stability analysis in soil filled dams; case: Bahçelik Dam, *The Seminars of Soil Mechanics Problems in Water Structures*, Turkey Water Works (DSİ), TAAK, September, Balıkesir, Turkey, 117-129.

## **Projects**

Identifying the impact of hydro-environmental data and large climate signals on groundwater dynamics in Jordan / developing prediction models using remote sensing tools, wavelet analysis, innovative polygon trend analysis and range-dependent deep learning approach (revised version will be shortly submitted to DFG).

Investigation of temporal and spatial variability of precipitation, evaporation and streamflow of Germany using innovative trend analysis methodologies, *Alexander von Humboldt-Stiftung, Philipp Schwarz Initiative*, 2021-2023.

Determination of discharge-stage relationship and estimation of streamflow by using artificial neural networks, *Erciyes University (EU)*, Project Code: MFA-04-04, 2004-2006.

Long and short-term streamflow prediction and missing data infilling using soft computing techniques, *Erciyes University (EU)*, Project Code: FBA-06-26, 2006-2008.

River sediment load modelling using fuzzy-neuro approach, *The Scientific and Technical Research Council of Turkey*, Project Code: 106Y191, 2006-2008.

Development of a computer package program for the frequency analysis and depth-duration-recurrence relations of 14 sequential-duration recorded annual rainfall peaks series from 5 minutes to 24 hours, *The Scientific and Technical Research Council of Turkey*, Project Code: 106Y192, 2006-2008.

Estimating suspended sediment load in natural rivers using artificial intelligence methods, *Erciyes University (EU)*, Project Code: FBT-07-30, 2007-2008.

Determination of river stage-discharge relationship using multi-layer neural networks, *Erciyes University (EU)*, Project Code: FBT-07-31, 2007-2008.

Modeling lake level fluctuation using artificial neural networks combined with wavelet, *Erciyes University (EU)*, Project Code: FBT-1042, 2009-2010.

Wavelet neural networks for estimating short-term and long-term streamflows, *Erciyes University (EU)*, Project Code: FBT-1040, 2009-2010.

## **PROFESSIONAL ACTIVITIES**

### **Editorial Board:**

Associate Editor of Journal of Hydrologic Engineering (ASCE), (2015- ).

In Editorial Board for Hydrology Research, (2019- ).

In Editorial Board for Hydrological Sciences Journal, (2021- ).

In Editorial Board for KSCE Journal of Civil Engineering, (2023- ).



Guest Editor for Special Issue on Hydrological Hazards in a Changing Environment-Early Warning, Forecasting, and Impact Assessment (Advances in Meteorology), 2015.

Guest Editor for Special Issue on Machine Learning with Metaheuristic Algorithms for Sustainable Water Resources Management (Sustainability), 2021.

Guest Editor for Special Issue on Sustainable Management of Water and Environment with the Aid of Advanced Computing Methods (Sustainability), 2022.

Associate Editor of Arabian Journal of Geosciences (AJGS), (2017- ).

Associate Editor of ISH Journal of Hydraulic Engineering, (2015- ).

In Editorial Board for Irrigation & Drainage Systems Engineering (2014- ).

In Editorial Board for Austin Journal of Irrigation, (2015- ).

Editorial Board of Larhyss Journal, (2018- ).

In Editorial Board for Journal of Water and Land Development, (2022- ).

**Reviewer for SCI(E) indexed journals:**

Reviewer for Groundwater for Sustainable Development, on January, 2024.

Reviewer for International Journal of Sediment Research, on October, 2023.

Reviewer for Contaminant Hydrology, on September, 2023.

Reviewer for Hydrology Research, on June, 2023.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on May, 2023.

Reviewer for Expert Systems With Applications, on March, 2023.

Reviewer for Remote Sensing, on March, 2023.

Reviewer for Water Research, on February, 2023.

Reviewer for Computers and Electronics in Agriculture, on February, 2023.

Reviewer for Hydrological Sciences Journal (IAHS), on January, 2023.

Reviewer for Remote Sensing, on January, 2023.

Reviewer for Agricultural Water Management, on December, 2022.

Reviewer for Science of the Total Environment, on November, 2022.

Reviewer for Journal of Hydrologic Engineering (ASCE), on September, 2022.

Reviewer for Energy Reports, on September, 2022.

Reviewer for Acta Geophysica, on August, 2022.

Reviewer for Journal of Hydrology, on June, 2022.

Reviewer for Hydrology Research, on June, 2022.

Reviewer for Water Research, on June, 2022.

Reviewer for Ecological Informatics, on June, 2022.

Reviewer for Ecological Informatics, on May, 2022.

Reviewer for Journal of Hydrology, on May, 2022.

Reviewer for Hydrological Sciences Journal (IAHS), on May, 2022.

Reviewer for Pure and Applied Geophysics, on March, 2022.

Reviewer for Journal of Hydrology, on March, 2022.

Reviewer for Natural Hazards, on March, 2022.

Reviewer for Hydrological Sciences Journal (IAHS), on February, 2022.

Reviewer for Natural Hazards, on February, 2022.

Reviewer for Stochastic Environmental Research and Risk Assessment, on January, 2022.

Reviewer for Ocean Engineering, on December, 2021.

Reviewer for Journal of Hydrology, on December, 2021.

Reviewer for Water Research, on November, 2021.

Reviewer for Computers and Electronics in Agriculture, on November, 2021.

Reviewer for Hydrology Research, on October, 2021.

Reviewer for Environmental Technology & Innovation, on October, 2021.

Reviewer for Computers and Electronics in Agriculture, on September, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on September, 2021.

Reviewer for Energy Reports, on September, 2021.

Reviewer for Agricultural Water Management, on September, 2021.

Reviewer for Environmental Monitoring and Assessment, on September, 2021.

Reviewer for Water, on August, 2021.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on August, 2021.

Reviewer for Agricultural Water Management, on July, 2021.

Reviewer for Journal of Hydrology, on July, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on July, 2021.

Reviewer for Journal of Hydroinformatics, on June, 2021.

Reviewer for Water Resources Management, on June, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on May, 2021.

Reviewer for Science of the Total Environment, on May, 2021.

Reviewer for Stochastic Environmental Research and Risk Assessment, on May, 2021.

Reviewer for Natural Hazards, on May, 2021.

Reviewer for Journal of Hydrology, on May, 2021.

Reviewer for Journal of Hydrologic Engineering (ASCE), on May, 2021.

Reviewer for Hydrology Research, on April, 2021.

Reviewer for Theoretical and Applied Climatology, on April, 2021.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on April, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2021.

Reviewer for Hydrology Research, on April, 2021.

Reviewer for Journal of Hydrology, on April, 2021.

Reviewer for Journal of Contaminant Hydrology, on April, 2021.

Reviewer for Arabian Journal of Geosciences (AJGS), on March, 2021.

Reviewer for Science of the Total Environment, on February, 2021.

Reviewer for International Journal of Sediment Research, on February, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on February, 2021.

Reviewer for Computers and Concrete, on January, 2021.

Reviewer for Journal of Hydrology, on January, 2021.

Reviewer for Hydrological Sciences Journal (IAHS), on December, 2020.

Reviewer for PLOS ONE, on November, 2020.

Reviewer for Hydrology Research, on August, 2020.

Reviewer for Water, on August, 2020.

Reviewer for Water and Environment Journal, on August, 2020.

Reviewer for Engineering Structures, on July, 2020.

Reviewer for Natural Hazards, on July, 2020.

Reviewer for Journal of Hydrology, on July, 2020.

Reviewer for Water and Environment Journal, on July, 2020.

Reviewer for Computers and Electronics in Agriculture, on July, 2020.

Reviewer for Arabian Journal of Geosciences (AJGS), on July, 2020.

Reviewer for Pure and Applied Geophysics, on June, 2020.

Reviewer for Environmental Pollution, on May, 2020.

Reviewer for Water and Environment Journal, on May, 2020.

Reviewer for Science of the Total Environment, on May, 2020.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2020.

Reviewer for Environmental Pollution, on April, 2020.

Reviewer for Journal of Hydrology, on March, 2020.

Reviewer for Natural Hazards, on February, 2020.

Reviewer for Water and Environment Journal, on February, 2020.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on February, 2020.

Reviewer for Hydrological Sciences Journal (IAHS), on January, 2020.

Reviewer for Hydrology Research, on December, 2019.

Reviewer for Journal of Water and Climate Change, on December, 2019.

Reviewer for Renewable Energy, on December, 2019.

Reviewer for Journal of Hydrology, on December, 2019.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on November, 2019.

Reviewer for Hydrology Research, on November, 2019.

Reviewer for Hydrology Research, on July, 2019.

Reviewer for Computers and Electronics in Agriculture, on July, 2019.

Reviewer for Sustainability, on June, 2019.

Reviewer for Hydrological Sciences Journal (IAHS), on June, 2019.

Reviewer for Environmental Monitoring and Assessment, on May, 2019.

Reviewer for Hydrological Sciences Journal (IAHS), on May, 2019.

Reviewer for Journal of Hydrology, on May, 2019.

Reviewer for Journal of Hydrology, on May, 2019.

Reviewer for Hydrology Research, on January, 2019.

Reviewer for Journal of Hydroinformatics, on January, 2019.

Reviewer for Water Research, on December, 2018.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on November, 2018.

Reviewer for Journal of Hydrology, on October, 2018.

Reviewer for Water and Environment Journal, on October, 2018.

Reviewer for Journal of Hydrology, on September, 2018.

Reviewer for Journal of Hydrology, on September, 2018.

Reviewer for Water Resources Management, on September, 2018.

Reviewer for Hydrology Research, on August, 2018.

Reviewer for Hydrological Processes, on August, 2018.

Reviewer for Computers and Electronics in Agriculture, on August, 2018.

Reviewer for Polish Journal of Environmental Studies, on June, 2018.

Reviewer for Hydrology Research, on June, 2018.

Reviewer for Journal of Hydrology, on May, 2018.

Reviewer for Computers and Electronics in Agriculture, on May, 2018.

Reviewer for Journal of Hydrology, on April, 2018.

Reviewer for Advances in Water Resources, on April, 2018.

Reviewer for Renewable Energy, on March, 2018.

Reviewer for Energy, on March, 2018.

Reviewer for Journal of Hydrology, on March, 2018.

Reviewer for Water Resources Management, on February, 2018.

Reviewer for Journal of Environmental Informatics, on February, 2018.

Reviewer for Hydrology Research, on January, 2018.

Reviewer for Journal of Hydroinformatics, on January, 2018.

Reviewer for Engineering Geology, on January, 2018.

Reviewer for Journal of African Earth Sciences, on December, 2017.

Reviewer for Engineering Failure Analysis, on December, 2017.

Reviewer for Hydrology Research, on December, 2017.

Reviewer for Scientia Iranica, on November, 2017.

Reviewer for Computers and Electronics in Agriculture, on November, 2017.

Reviewer for Computers and Electronics in Agriculture, on November, 2017.

Reviewer for Computers and Electronics in Agriculture, on September, 2017.

Reviewer for Applied Soft Computing, on July, 2017.

Reviewer for Journal of Hydrology, on June, 2017.

Reviewer for Hydrological Sciences Journal (IAHS), on June, 2017.

Reviewer for Engineering with Computers, on May, 2017.

Reviewer for Applied Mathematical Modelling, on April, 2017.

Reviewer for Hydrology Research, on April, 2017.

Reviewer for IEEE Transactions on Reliability, on March, 2017.

Reviewer for Hydrological Sciences Journal (IAHS), on March, 2017.

Reviewer for Neural Computing & Applications, on March, 2017.

Reviewer for Computers and Concrete, on February, 2017.

Reviewer for Hydrology Research, on January, 2017.

Reviewer for Civil Engineering Infrastructures Journal, on January, 2017.

Reviewer for Hydrological Sciences Journal (IAHS), on December, 2016.

Reviewer for Journal of Hydrology, on December, 2016.

Reviewer for Natural Hazards, on November, 2016.

Reviewer for Hydrology Research, on November, 2016.

Reviewer for Water Resources Management, on October, 2016.

Reviewer for Journal of Hydrology, on October, 2016.

Reviewer for Hydrology Research, on October, 2016.

Reviewer for Journal of Hydrology, on August, 2016.

Reviewer for Journal of Hydrologic Engineering (ASCE), on August, 2016.

Reviewer for Computers and Electronics in Agriculture, on July, 2016.

Reviewer for Hydrology Research, on June, 2016.

Reviewer for Hydrology Research, on June, 2016.

Reviewer for Natural Hazards, on May, 2016.

Reviewer for Stochastic Environmental Research and Risk Assessment, on May, 2016.

Reviewer for Journal of Hydrology, on April, 2016.

Reviewer for Journal of Engineering Research of Kuwait University, on April, 2016.

Reviewer for Journal of the Faculty of Engineering and Architecture of Gazi University, on March, 2016.

Reviewer for Water Resources Management, on February, 2016.

Reviewer for Neural Computing & Applications, on February, 2016.

Reviewer for Journal of Hydrology, on January, 2016.

Reviewer for Agricultural Water Management, on January, 2016.

Reviewer for Meteorological Applications, on December, 2015.

Reviewer for Journal of Mountain Science, on December, 2015.

Reviewer for Computers and Electronics in Agriculture, on December, 2015.



Reviewer for Neural Computing & Applications, on December, 2015.

Reviewer for Hydrological Sciences Journal (IAHS), on December, 2015.

Reviewer for Measurement, on October, 2015.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on October, 2015.

Reviewer for Journal of Coastal Conservation, on October, 2015.

Reviewer for Journal of Hydrology, on September, 2015.

Reviewer for Journal of Hydrologic Engineering (ASCE), on August, 2015

Reviewer for Theoretical and Applied Climatology, on August, 2015.

Reviewer for Solar Energy, on July, 2015.

Reviewer for Theoretical and Applied Climatology, on July, 2015.

Reviewer for Computers and Concrete, on May, 2015.

Reviewer for Journal of Hydrology, on May, 2015.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2015.

Reviewer for Hydrology Research, on April, 2015.

Reviewer for Journal of Hydrology, on April, 2015.

Reviewer Journal of Hydro-environment Research, on March, 2015.

Reviewer for Journal of Hydroinformatics, on February, 2015.

Reviewer for Theoretical and Applied Climatology, on February, 2015.

Reviewer for Journal of Hydrology, on February, 2015.

Reviewer for International Journal of Sustainable Society, on February, 2015

Reviewer for Journal of Hydrology, on February, 2015

Reviewer for Journal of Hydroinformatics, on January, 2015.

Reviewer for Applied Soft Computing, on January, 2015.

Reviewer for Theoretical and Applied Climatology, on January, 2015.

Reviewer for Irrigation Science, on January, 2015.

Reviewer for Meteorology and Atmospheric Physics, on December, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on December, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on November, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on October, 2014.

Reviewer for Neural Computing & Applications, on October, 2014.

Reviewer for Theoretical and Applied Climatology, on September, 2014.

Reviewer for Surveys in Geophysics, on September, 2014.

Reviewer for Hydrology Research, on September, 2014.

Reviewer for Journal of Computing in Civil Engineering (ASCE), on September, 2014.

Reviewer for Journal of Agricultural Science and Technology, on August, 2014.

Reviewer for Journal of Hydrology, on August, 2014.

Reviewer for Environmental Engineering and Management Journal, on July, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on July, 2014.

Reviewer for Hydrological Sciences Journal (IAHS), on July, 2014.

Reviewer for Journal of the American Water Resources Association, on June, 2014.

Reviewer for Journal of Hydrology and Hydromechanics, on May, 2014.

Reviewer for Neural Computing & Applications, on April, 2014.

Reviewer for Environmental Modelling & Software, on April, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on March, 2014.

Reviewer for Journal of Hydrologic Engineering (ASCE), on March, 2014.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on March, 2014.

Reviewer for Hydrological Sciences Journal (IAHS), on March, 2014.

Reviewer for Journal of Hydrology, on February, 2014.

Reviewer for Journal of Hydrology, on December, 2013.

Reviewer for Journal\_of\_Agricultural Science, on December, 2013

Reviewer for Journal of Hydroinformatics, on December, 2013.

Reviewer for Water Resources Management, on December, 2013.

Reviewer for Desalination and Water Treatment, on December, 2013.

Reviewer for Journal of Hydrologic Engineering (ASCE), on December, 2013.

Reviewer for Journal of Climatology, on November, 2013.

Reviewer for Journal of Hydrology, on November, 2013.

Reviewer for Energy, on November, 2013.

Reviewer for Theoretical and Applied Climatology, on October, 2013.

Reviewer for Journal of Hydrology, on September, 2013.

Reviewer for Journal of Hydrologic Engineering (ASCE), on August, 2013.

Reviewer for Journal of Hydrology, on July, 2013.

Reviewer for Journal of Hydroinformatics, on July, 2013.

Reviewer for Water Resources Management, on June, 2013.

Reviewer for Theoretical and Applied Climatology, on June, 2013.

Reviewer for Journal of Hydroinformatics, on April, 2013.

Reviewer for Journal of Computing in Civil Engineering (ASCE), on April, 2013.

Reviewer for Neural Computing & Applications, on April, 2013.

Reviewer for Water Resources Management, on March, 2013.

Reviewer for Soft Computing, on March, 2013.

Reviewer for Theoretical and Applied Climatology, on February, 2013.

Reviewer for Water Resources Management, on February, 2013.

Reviewer for J. of the American Water Resources Association, on February, 2013.

Reviewer for Water Resources Management, on January, 2013.

Reviewer for Hydrology Research, on December, 2012.

Reviewer for Water Resources Management, on October, 2012.

Reviewer for Water Resources Management, on October, 2012.

Reviewer for Journal of Environmental Management, on October, 2012.

Reviewer for Fire Safety Journal, on October, 2012.

Reviewer for Environmetrics, on September, 2012.

Reviewer for Journal of Hydroinformatics, on September, 2012.

Reviewer for Theoretical and Applied Climatology, on September, 2012.

Reviewer for Neural Computing & Applications, on September, 2012.

Reviewer for Journal of Hydroinformatics, on August, 2012.

Reviewer for Water Resources Management, on August, 2012.

Reviewer for Journal of Hydrology, on August, 2012.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on June, 2012.

Reviewer for Water Resources Management, on June, 2012.

Reviewer for Journal of Hydroinformatics, on June, 2012.

Reviewer for Journal of Urban and Environmental Engineering, on June, 2012.

Reviewer for Neural Computing & Applications, on June, 2012.

Reviewer for Earth Science Informatics, on May, 2012

Reviewer for Hydrology Research, on May, 2012.

Reviewer for International Journal of Global Warming, on April, 2012.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on April, 2012.

Reviewer for Kuwait J. of Sci. and Engineering, on April, 2012.

Reviewer for Hydrological Processes, on April, 2012.

Reviewer for Journal of Hydrology, on April, 2012.

Reviewer for Environmental Earth Sciences, on March, 2012.

Reviewer for Journal of the Geological Society of India, on March, 2012.

Reviewer for Engineering Applications of Computational Fluid Mechanics, on March, 2012.

Reviewer for Water Resources Management, on February, 2012.

Reviewer for TEKNIK DERGI (IMO), on January, 2012.

Reviewer for Water Science and Technology, on January, 2012.

Reviewer for Hydrological Sciences Journal (IAHS), on January, 2012.

Reviewer for Journal of Hydroinformatics, on December, 2011.

Reviewer for Computers & Geosciences, on December, 2011.

Reviewer for Water Resources Research, on December, 2011.

Reviewer for Stochastic Environmental Research and Risk Assessment, on November, 2011

Reviewer for Journal of Hydroinformatics, on November, 2011.

Reviewer for Journal of Hydrology, on November, 2011.

Reviewer for Computers and Electronics in Agriculture on November, 2011.

Reviewer for Journal of Hydroinformatics, on November, 2011.

Reviewer for Irrigation Science, on October, 2011.

Reviewer for Hydrological Processes, on September, 2011.

Reviewer for Expert System, on August, 2011.

Reviewer for Applied Soft Computing, on August, 2011.

Reviewer for Canadian Journal of Civil Engineering, on August, 2011.

Reviewer for Journal of Hydrology, on August, 2011.

Reviewer for Journal of Hydrologic Engineering (ASCE), on July, 2011.

Reviewer for Journal of Hydroinformatics, on June, 2011.

Reviewer for Journal of Climatology, on June, 2011.

Reviewer for International J. of Natural Resources and Marine Sciences, on May, 2011.

Reviewer for Journal of Earth System Science, on April, 2011.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2011.

Reviewer for ASCE J. of Energy Engineering, on April, 2011.

Reviewer for Hydrological Processes, on March, 2011.

Reviewer for Water Science and Technology, on March, 2011.

Reviewer Journal of Hydro-environment Research, on March, 2011.

Reviewer for Journal of Hydraulic Engineering (ASCE), on February, 2011.

Reviewer for Hydrological Processes, on February, 2011.

Reviewer for Journal of Hydroinformatics, on February, 2011.

Reviewer for Hydrological Sciences Journal (IAHS), on January, 2011.

Reviewer for Water Resources Management, on January, 2011.

Reviewer for Hydrological Processes, on January, 2011.

Reviewer for Ocean Engineering on December, 2010.

Reviewer for Int. J. of River Basin Management on December, 2010.

Reviewer for Hydrological Processes, on November, 2010.

Reviewer for Journal of Hydrology, on November, 2010.

Reviewer for Scientific Research and Essays, on November, 2010.

Reviewer for Expert Systems, on November, 2010.

Reviewer for Journal of Hydroinformatics, on November, 2010.

Reviewer for Journal of Irrigation Science, on November, 2010.

Reviewer for Journal of Irrigation Science, on November, 2010.

Reviewer for Water Resources Management, on October, 2010.

Reviewer for Int. J. of River Basin Management on October, 2010.

Reviewer for Flow Measurement and Instrumentation, on October, 2010.

Reviewer for Journal of Earth System Science, on October, 2010.

Reviewer for Water SA, on October, 2010.

Reviewer for Advances in Engineering Software, on September, 2010.

Reviewer for Scientific Research and Essays, on September, 2010.

Reviewer for Environmental Fluid Mechanics, on September, 2010.

Reviewer for Advances in Engineering Software, on September, 2010.

Reviewer for Journal of Hydrologic Engineering (ASCE), on August, 2010.

Reviewer for Journal of Hydrology, on August, 2010.

Reviewer for Advances in Engineering Software, on August, 2010.

Reviewer for Water Resources Research, on July, 2010.

Reviewer for Advances in Engineering Software, on July, 2010.

Reviewer for Environmental Engineering Science, on June, 2010.

Reviewer for Advances in Engineering Software, on June, 2010.

Reviewer for Scientia Agricola, on June, 2010.

Reviewer for Water Resources Management, on June, 2010.

Reviewer for Journal of Hydrology, on May, 2010.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on May, 2010.

Reviewer for Environmental Fluid Mechanics, on April, 2010.

Reviewer for Journal of Irrigation Science, on April, 2010.

Reviewer for Advances in Engineering Software, on April, 2010.

Reviewer for Journal of Hydroinformatics, on April, 2010.

Reviewer for International Journal of the Physical Sciences, on April, 2010.

Reviewer for Hydrological Processes, on March, 2010.

Reviewer for Applied Soft Computing, on March, 2010.

Reviewer for KSCE Journal of Civil Engineering, on March, 2010.

Reviewer for Water Resources Research, on February, 2010.

Reviewer for Journal of Irrigation Science, on February, 2010.

Reviewer for Journal of Hydroinformatics, on January, 2010.

Reviewer for Agricultural Water Management, on January, 2010.

Reviewer for Journal of Irrigation Science, on January, 2010.

Reviewer for Nondestructive Testing and Evaluation, on December, 2009.

Reviewer for Water Resources Management, on December, 2009.

Reviewer for Water Resources Research, on December, 2009.

Reviewer for Computers and Electronics in Agriculture on November, 2009.

Reviewer for CLEAN – Soil, Air, Water, on November, 2009.

Reviewer for Advances in Engineering Software, on October, 2009.

Reviewer for Gazi University Isı Bilimi ve Tekniği Dergisi, on September, 2009.

Reviewer for Advances in Engineering Software, on September, 2009.



Reviewer for Advances in Engineering Software, on September, 2009.

Reviewer for Advances in Engineering Software, on August, 2009.

Reviewer for Advances in Engineering Software, on August, 2009.

Reviewer for Journal of Hydroinformatics, on August, 2009.

Reviewer for Water Resources Management, on July, 2009.

Reviewer for Journal of Hydrologic Engineering (ASCE), on July, 2009.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on July, 2009.

Reviewer for Journal of Hydroinformatics, on May, 2009.

Reviewer for Water Resources Management, on May, 2009.

Reviewer for Environmental Modelling & Software, on May, 2009.

Reviewer for Journal of Hydrologic Engineering (ASCE), on March, 2009.

Reviewer for Geo-Marine Letters, on March, 2009.

Reviewer for Hydrological Processes, on March, 2009.

Reviewer for Advances in Engineering Software, on February, 2009.

Reviewer for Advances in Engineering Software, on February, 2009.

Reviewer for Hydrological Processes, on January, 2009.

Reviewer for River Research and Applications, on December, 2008.

Reviewer for Kuwait J. of Sci. and Engineering, on December, 2008.

Reviewer for Journal of Hydrology Research, on December, 2008.

Reviewer for Journal of Irrigation Science, on December, 2008.

Reviewer for Indian Journal of Engineering & Materials Sciences, on November, 2008.

Reviewer for Water Resources Research, on November, 2008.

Reviewer for CLEAN – Soil, Air, Water, on November, 2008.

Reviewer for Water Resources Management, on October, 2008.

Reviewer for Water and Environment Journal, on October, 2008.

Reviewer for Environmental Fluid Mechanics, on October, 2008.

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Reviewer for Journal of Hydrologic Engineering (ASCE), on August, 2008.

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Reviewer for Advances in Engineering Software, on July, 2008.

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Reviewer for Canadian J. of Civil Eng, on June, 2008.

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Reviewer for Hydrological Processes, on June, 2008.

Reviewer for Water Resources Research, on May, 2008.

Reviewer for Hydrological Sciences Journal (IAHS), on May, 2008.

Reviewer for Stochastic Environmental Research and Risk Assessment, on April, 2008.

Reviewer for CMES, Computer Modeling in Engineering & Sciences, on April, 2008.

Reviewer for Advances in Engineering Software, on April, 2008.

Reviewer for Advances in Engineering Software, on March, 2008.

Reviewer for Journal of Hydrologic Engineering (ASCE), on February, 2008.

Reviewer for Journal of Urban and Environmental Engineering, on January, 2008.

Reviewer for Soft Computing, on January, 2008.

Reviewer for Applied Mathematical Modelling, on December, 2007.

Reviewer for Journal of Hydrology, on December, 2007.

Reviewer for Journal of Hydrologic Engineering (ASCE), on December, 2007.

Reviewer for Hydrological Sciences Journal (IAHS), on November, 2007.

Reviewer for Hydrological Processes, on September, 2007.

Reviewer for Water and Environment Journal, on September, 2007.

Reviewer for Computers & Fluids, on September, 2007.

Reviewer for Journal of Environmental Management, on September, 2007.

Reviewer for Journal of Hydrology, on August, 2007.

Reviewer for Hydrological Sciences Journal (IAHS), on June, 2007.

Reviewer for Water Resources Research, on June, 2007.

Reviewer for CATENA, on April, 2007.

Reviewer for Hydrological Sciences Journal (IAHS), on March, 2007.

Reviewer for Hydrological Sciences Journal (IAHS), on January, 2007.

Reviewer for Journal of Environmental Management, on December, 2006.

Reviewer for Journal of Coastal Research, on September, 2006.

Reviewer for Hydrological Sciences Journal (IAHS), on August, 2006.

Reviewer for Hydrological Processes, on May, 2006.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2006.

Reviewer for Water Resources Research, on April, 2006.

Reviewer for Environmental Fluid Mechanics, on February, 2006.

Reviewer for Neurocomputing, Elsevier, on December, 2005.

Reviewer for Hydrological Sciences Journal (IAHS), on June, 2005

Reviewer for Hydrological Sciences Journal (IAHS), on December, 2004.

Reviewer for Journal of Irrigation and Drainage Engineering (ASCE), on July, 2004.

Reviewer for Hydrological Sciences Journal (IAHS), on April, 2004.

Reviewer for Hydrological Sciences Journal (IAHS), on August, 2003.

Reviewer for University of Nis Faculty of Civil Engineering and Achitecture, Serbia (monograph evaluation), on October, 2008.

**Expert for the evaluation of international projects:**

Expert for the project proposal entitled ‘Integrating Ai For Real-Time Groundwater Monitoring and Water Quality Assessment in Qatar Basin Using Scalable IoT and Edge Computing’, DAR01-1110-24309 by Dr. Ravi RAngarajan, Qatar Natuinal Research Fund, 199,999 USD budget, on January, 2025.

Expert for the project proposal entitled ‘Sustainable Construction Material Choices in Qatar: A Comprehensive Evaluation of Concrete vs Wood for Environmental, Social, Economic, and Energy Efficiency Impact’, CCEC01-1017-230065 by Dr. Ahmad Diraki, Qatar Natuinal Research Fund, 595,998 USD budget, on January, 2024.

Expert for the project proposal entitled ‘Upcycling Construction Waste Materials for Sustainable Infrastructure’, CCEC01-1005-230028 by Dr. Eyad Masad, Qatar Natuinal Research Fund, 599,532 USD budget, on January, 2024.

Expert for the project proposal entitled ‘Development of Sustainable Asphalt Mixtures Incorporating Recycled Carbonated Aggregates’, ARG01-0429-230026 by Dr. Eyad Masad, Qatar Natuinal Research Fund, 739,683 USD budget, on July, 2023.

Expert for the project proposal entitled ‘Developing Digital Twin Technologies for Infrastructure Asset Management using Smart Sensor Networks’, ARG01-0531-230430 by Dr. Usama Ebead, Qatar Natuinal Research Fund, 739,367 USD budget, on July, 2023.

Expert for the project proposal entitled ‘REPURPOSE-REPURPOSing building fit-out elements by digital dEsign for circularity’, ARG01-0604-230497 by Dr. Djamel Boussaa, Qatar Natuinal Research Fund, 705,844 USD budget, on July, 2023.

**Expert for the evaluation of Ph.D. Thesis:**

Expert for the evaluation of Ph.D. Thesis of Dhasarathan S, a candidate for the award of Ph.D. Degree, on Engineering, Anna University Chennai, India, on December, 2024.

Expert for the evaluation of Ph.D. Thesis of Tan Yi Xun, a candidate for the award of Ph.D. Degree, on Engineering, UCSI University, Malaysia, on April, 2024.

Expert for the evaluation of Ph.D. Thesis of Wei Yaxing, a candidate for the award of Ph.D. Degree, on Engineering, University of Malaya, on March, 2024.

Expert for the evaluation of Ph.D. Thesis of Nazirul Mubin Bin Zahari, a candidate for the award of Ph.D. Degree, on Engineering, Universiti Tenaga Nasional, on January, 2024.

Expert for the evaluation of Ph.D. Thesis of Shah Shalaka Sanjay, a candidate for the award of Ph.D. Degree, on Science and Technology, Savitribai Phule Pune University, on July, 2023.

Expert for the evaluation of Ph.D. Thesis of Tan Woon Yang, a candidate for the award of Ph.D. Degree, on Engineering, University of Malaya, on July, 2023.

Expert for the evaluation of Ph.D. Thesis of Vivien Lai Mei Yen, a candidate for the award of Ph.D. Degree, on Engineering, Universiti Tunku Abdul Rahman, on March, 2023.

Expert for the evaluation of Ph.D. Thesis of Nishant Kumar, a candidate for the award of Ph.D. Degree, Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, on September, 2021.

Expert for the evaluation of Ph.D. Thesis of Pavitra Kumar, a candidate for the award of Ph.D. Degree, Faculty of Engineering, University of Malaya, on March, 2021.

Expert for the evaluation of Ph.D. Thesis of Zacarias Gulliver Acevedo, a candidate for the award of Ph.D. Degree in "Fluvial Dynamics and Hydrology Research Group, Department of Agronomy", University of Cordoba, on December, 2020.

Expert for the evaluation of Ph.D. Thesis of Mozafar Ansari, a candidate for the award of Ph.D. Degree in "Water Resources Engineering", University of Malaya, on September, 2020.

Expert for the evaluation of Ph.D. Thesis of Taher J. M. Abunama, a candidate for the award of Ph.D. Degree in "Hydrology", Savitribai Phule University of Malaya, on March, 2019.

Expert for the evaluation of Ph.D. Thesis of Maryam Hamouleh Kheirollahpour, a candidate for the award of Ph.D. Degree, Institute for Advanced Studies, University of Malaya, on November, 2018.

Expert for the evaluation of Ph.D. Thesis of Kh. Mahfuz Ud Darain, a candidate for the award of Ph.D. Degree, Faculty of Engineering, University of Malaya, on October, 2016.

Expert for the evaluation of Ph.D. Thesis of Pradnya R. Dixit, a candidate for the award of Ph.D. Degree in "Hydrology", Savitribai Phule Pune University, on September, 2016.

Expert for the evaluation of Ph.D. Thesis of Patil Amit Prakash, a candidate for the award of Ph.D. Degree in "Hydrology", National Institute of Technology Karnataka, on July 2016.

Expert for the evaluation of Ph.D. Thesis of Nandita Singh, a candidate for the award of Ph.D. Degree in "Department of Earth Sciences", Indian Institute of Technology, on March 2014.

Expert for the evaluation of Ph.D. Thesis of Anil Kumar Kar, a candidate for the award of Ph.D. Degree in "Civil and Environmental Technology", Indian Institute of Technology, on September 2011.

Expert for the evaluation of Ph.D. Thesis of Anil Kumar Lohani, a candidate for the award of Ph.D. Degree in "Hydrology", Indian Institute of Technology, on March, 2008.

### **Thesis supervision:**

#### **MSc**

Lijin Zhou, "Investigating Spatial-Temporal Variation of Precipitations in Schleswig-Holstein Distric Using Statistical and Graphical Based Trend Methods", Lübeck University of Applied Science, 2024.

Mariam Idowu, "Investigating the relationships between streamflow and climatic variables in northern Germany and developing prediction model by improved machine learning methods using ground- and satellite-based data", Lübeck University of Applied Science, 2023.

Vahdettin Demir, "Flood hazard mapping by using geographic information system and hydraulic model: Mert River, Samsun, Turkey", Canik Basari University, 2015.

Halil İbrahim Fedakar, "River suspended sediment concentration modelling using fuzzy genetic approach", Erciyes University, 2012.

Ersin Yaşlı, "Wavelet neural networks for estimating short-term and long-term streamflows", Erciyes University, 2010.

Yasin Kılıç, "Modeling evapotranspiration using artificial neural networks and comparison with empirical methods", Erciyes University, 2010.

Mehmet Güneş, "Modeling lake level fluctuations of Sultan Sazligi using wavelet neural networks", Erciyes University, 2010.

Fatih Cevat, "Determination of river stage-discharge relationship using artificial intelligence methods", Erciyes University, 2009.

Necmiye Nas, "River sediment load modelling using artificial intelligence techniques", Erciyes University, 2008.

Selcan Afşar, "Pan evaporation estimation using artificial neural networks and fuzzy logic approaches", Erciyes University, 2008.

#### **PhD**

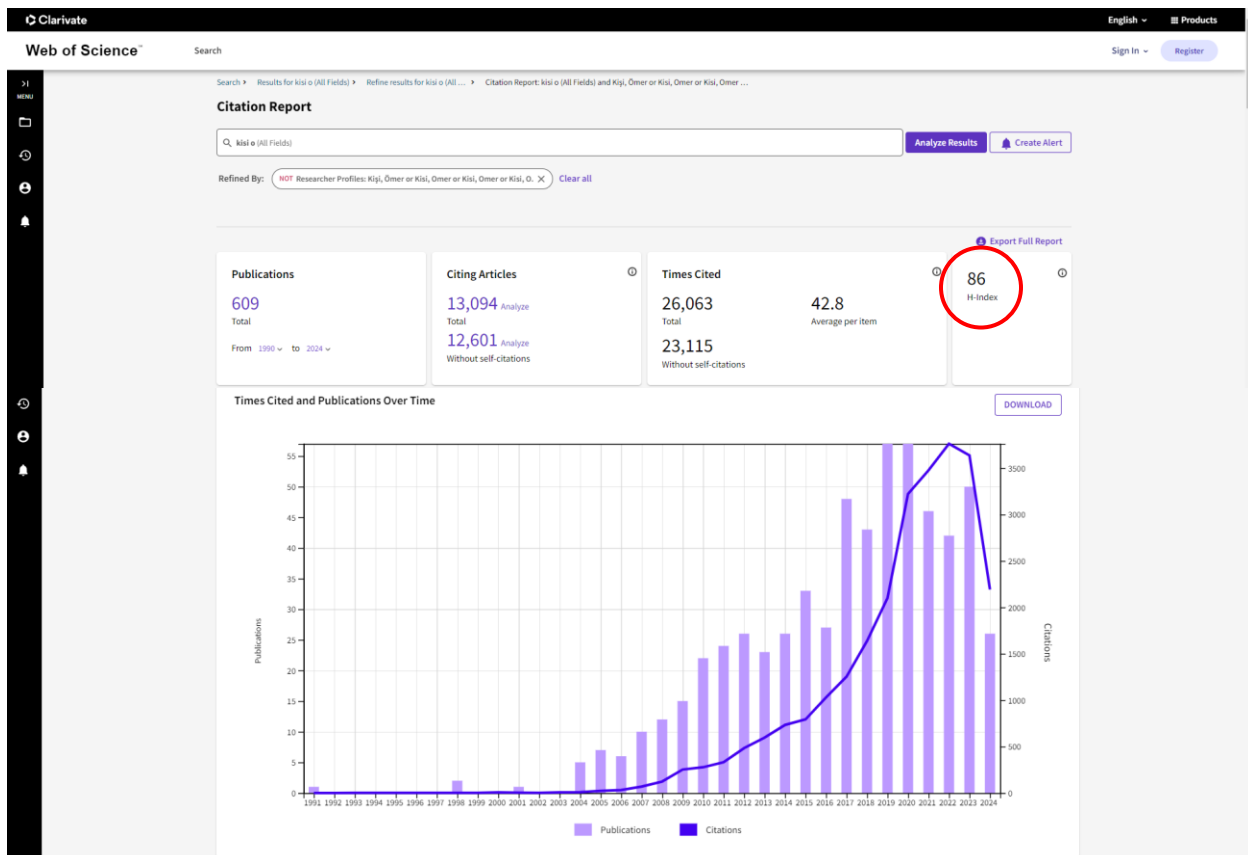
Levent Latifoglu, “Hydrologic forecasting using Hilbert Huang transform”, Erciyes University, 2017.

Murat Ay, “Modeling water quality parameters using artificial intelligence techniques, 2014.

Ömer Bilhan, “Prediction of lateral outflow over triangular labyrinth side weirs using soft computing approaches”, Firat University, 2011.

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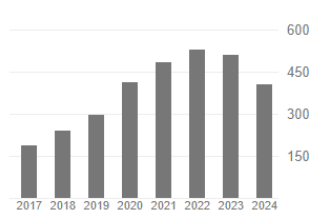


**Ozgur Kisi** [FOLLOW](#)

Department of Civil Engineering, University of Applied Sciences, Lübeck, Germany  
Verified email at th-luebeck.de  
Developing novel algorithm... suspended sedime

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<input type="checkbox"/> Interpreting machine learning models based on SHAP values in predicting suspended sediment concentration H Lamane, L Mouhir, R Moussadek, B Baghdad, O Kisi, A El Bilali International Journal of Sediment Research		2024

## AWARDS

- 2006 Tison Award (given by the International Association of Hydrological Sciences (IAHS), URL: <https://iahs.info/About-IAHS/Awards/Tison-Award/Tison-Award-winners/>)
- 2006 Popular Science Award (given by the Popular Science Journal)
- Scientific Encouragement Award (Erciyes University President), 2006.
- Scientific Publication Honour Award for 2006 (Erciyes University Engineering Faculty)
- Distinguished Young Scientist Award, (FABED, Fevzi Akkaya Foundation for Scientific Research, URL: [https://www.fabed.com/sonuclar.php?p=2007\\_basari](https://www.fabed.com/sonuclar.php?p=2007_basari)), 2007.
- Scientific Publication Honour Award for 2007 (Erciyes University Engineering Faculty)
- Scientific Publication Honour Award for 2008 (Erciyes University Engineering Faculty)
- Scientific Publication Honour Award for 2010 (Erciyes University Engineering Faculty)
- Scientific Publication Honour Award for 2011 (Erciyes University Engineering Faculty)
- Scientific Publication Honour Award for 2014 (Basari University)
- Scientific Publication Honour Award for 2015 (Basari University).



- Best Reviewer Award given by Hydrological Sciences Journal, 2020.
- Distinguished Scientist Award (golden medal), Ilia State University, 2021.
- He was selected as the highly cited researcher by the Clarivate in 2021 ([https://recognition.webofscience.com/awards/highly-cited/2021/?utm\\_campaign=EM1\\_Highly\\_Cited\\_Researchers\\_SAR\\_Global\\_2021\\_Recipients\\_EN&utm\\_medium=email&utm\\_source=Eloqua](https://recognition.webofscience.com/awards/highly-cited/2021/?utm_campaign=EM1_Highly_Cited_Researchers_SAR_Global_2021_Recipients_EN&utm_medium=email&utm_source=Eloqua)).
- 2023 Best Discussion Award (EWRI-ASCE).
- In 2020-2024, Dr. Kisi has been ranked in the top 2% of world's scientists by Stanford University (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>).

## **LANGUAGE**

Turkish, native language  
 English (good)  
 German (A2 level)

## **COMPUTER EXPERIENCE**

*Operating systems:* Windows.  
*Software:* MS Excel, MS Word, MS Power Point, Matlab.  
*Programming languages:* MATLAB (good).

## **PROFESSIONAL MEMBERSHIPS**

Principal member of Turkish Academy of Science (selected in 2012)  
 American Society of Civil Engineers  
 IAHS (International Association of Hydrological Sciences)  
 IAMG (International Association for Mathematical Geosciences)  
 Fuzzy Logic and Technology Club in ITU.

## **HOBBIES**

Gymnastics  
 WingTsun (kung fu)  
 Swimming  
 Chess  
 Draughts

## **REFERENCES**

Vijay Singh, Distinguished Professor and Regents Professor, Caroline & William N. Lehrer Distinguished Chair in Water Engineering, Email: [vsingh@tamu.edu](mailto:vsingh@tamu.edu)

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