

## Assoc. Prof. LEVENT LATİFOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: 4E5zJ-YAAAAJ

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Publons / Web Of Science ResearcherID: AAM-1392-2021

ScopusID: 56222148400

Yoksis Researcher ID: 300150

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2017

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2000 - 2003

Undergraduate, Istanbul Technical University, Turkey 1996 - 2000

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019 - Continues

### Academic and Administrative Experience

Internship Committee Member, Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2021 - Continues

Erciyes University, 2021 - Continues

### Courses

Final project, Undergraduate, 2021 - 2022, 2020 - 2021

Introduction to Artificial Neural Network Applications in Civil Engineering, Postgraduate, 2022 - 2023

Artificial Neural Network Applications in Civil Engineering II, Postgraduate, 2021 - 2022, 2020 - 2021

Hydraulic Structures II, Undergraduate, 2021 - 2022, 2020 - 2021

Hydraulic Structures 1, Undergraduate, 2022 - 2023, 2021 - 2022

Hydraulic Structures 1, Undergraduate, 2022 - 2023, 2021 - 2022

Hydraulic Structures II, Undergraduate, 2021 - 2022, 2020 - 2021

Hydroelectric Power Production, Undergraduate, 2021 - 2022, 2020 - 2021

Hydroelectric Power Production, Undergraduate, 2021 - 2022, 2020 - 2021

Seminar, Doctorate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Drought index time series forecasting via three-in-one machine learning concept for the Euphrates basin**  
LATİFOĞLU L., BAYRAM S., Aktürk G., ÇITAKOĞLU H.  
Earth Science Informatics, 2024 (SCI-Expanded)
- II. **A Novel Approach for High-Performance Estimation of SPI Data in Drought Prediction**  
LATİFOĞLU L., Özger M.  
Sustainability (Switzerland), vol.15, no.19, 2023 (SCI-Expanded)
- III. **A hybrid approach to predict the bearing capacity of a square footing on a sand layer overlying clay**  
UNCUOĞLU E., LATİFOĞLU L., KAYA Z.  
Geomechanics and Engineering, vol.34, no.5, pp.561-575, 2023 (SCI-Expanded)
- IV. **High-performance prediction model combining minimum redundancy maximum relevance, circulant spectrum analysis, and machine learning methods for daily and peak streamflow**  
Latifoğlu L., Kaya E.  
THEORETICAL AND APPLIED CLIMATOLOGY, pp.1-23, 2023 (SCI-Expanded)
- V. **Predicting liquefaction-induced lateral spreading by using the multigene genetic programming (MGGP), multilayer perceptron (MLP), and random forest (RF) techniques**  
KAYA Z., LATİFOĞLU L., UNCUOĞLU E., EROL A., Keskin M. S.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.82, no.3, 2023 (SCI-Expanded)
- VI. **Comparison of neural network, Gaussian regression, support vector machine, long short-term memory, multi-gene genetic programming, and M5 Trees methods for solving civil engineering problems**  
UNCUOĞLU E., ÇITAKOĞLU H., LATİFOĞLU L., BAYRAM S., Laman M., İLKENTAPAR M., ÖNER A. A.  
APPLIED SOFT COMPUTING, vol.129, 2022 (SCI-Expanded)
- VII. **The Performance Analysis of Robust Local Mean Mode Decomposition Method for Forecasting of Hydrological Time Series**  
LATİFOĞLU L.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.46, no.4, pp.3453-3472, 2022 (SCI-Expanded)
- VIII. **A novel combined model for prediction of daily precipitation data using instantaneous frequency feature and bidirectional long short time memory networks**  
LATİFOĞLU L.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.28, pp.42899-42912, 2022 (SCI-Expanded)
- IX. **Modelling of lateral effective stress using the particle swarm optimization with machine learning models**  
UNCUOĞLU E., LATİFOĞLU L., Ozer A. T.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.22, 2021 (SCI-Expanded)
- X. **Importance of hybrid models for forecasting of hydrological variable**  
Latifoglu L., Kisi O., LATİFOĞLU F.  
NEURAL COMPUTING & APPLICATIONS, vol.26, no.7, pp.1669-1680, 2015 (SCI-Expanded)
- XI. **Investigation of Empirical Mode Decomposition in Forecasting of Hydrological Time Series**  
Kisi O., Latifoglu L., LATİFOĞLU F.  
WATER RESOURCES MANAGEMENT, vol.28, no.12, pp.4045-4057, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Deep Learning Approaches for Stream Flow and Peak Flow Prediction: A Comparative Study**  
Latifoğlu L., Altuntaş E.  
The European Journal of Research and Development, vol.4, no.1, pp.61-84, 2024 (Peer-Reviewed Journal)
- II. **Predicting Meteorological Drought in Iraq: An Evaluation of Machine Learning Techniques by Random Forest and Artificial Neural Networks**  
Latifoğlu L., Hasan Z., Sami .  
International Research Journal of Engineering and Technology, vol.10, no.11, pp.52-61, 2023 (Peer-Reviewed Journal)
- III. **Investigation Of Lake Water Level Forecasting Performances Of Subband Decomposition Techniques**  
Latifoğlu L., Haktanır T.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.38, no.3, pp.657-675, 2022 (Peer-Reviewed Journal)
- IV. **Prediction of Daily Streamflow Data Using Ensemble Learning Models**  
Latifoğlu L., Canpolat Ü.  
The European Journal of Research and Development, vol.2, no.4, pp.356-371, 2022 (Peer-Reviewed Journal)
- V. **Standard precipitation index estimation with deep neural network model**  
Latifoğlu L.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.4, pp.1006-1024, 2022 (Scopus)
- VI. **Application of the novel circulant singular spectrum analysis ensemble model for forecasting of streamflow data**  
Latifoğlu L.  
Arabian Journal of Geosciences volume, vol.15, no.10, pp.1-16, 2022 (Peer-Reviewed Journal)
- VII. **A novel approach for prediction of daily streamflow discharge data using correlation based feature selection and random forest method**  
Latifoğlu L.  
INTERNATIONAL ADVANCED RESEARCHES and ENGINEERING JOURNAL, vol.06, no.01, pp.1-7, 2022 (Peer-Reviewed Journal)
- VIII. **Forecasting Of Stream Flow Using Singular Spectrum Analysis And Long-Short Term Memory Networks**  
LATİFOĞLU L., Nuralan K. B.  
Avrupa Bilim ve Teknoloji Dergisi, pp.376-381, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Performance Analysis of Principal Component Analysis and Long Short-Term Memory Networks Using Hydrometeorological Variables for Forecasting of Daily Stream-Flow Data**  
Latifoğlu L.  
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.271-276
- II. **HIGH PERFORMANCE PREDICTION OF STREAM FLOW DATA USING EMPIRICAL WAVELET TRANSFORM AND DECISION TREE ALGORITHMS**  
Latifoğlu L.  
CUKUROVA 7th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 7 - 08 September 2021, pp.774-783
- III. **FORECASTING OF DAILY STREAMFLOW DATA WITH GATED RECURRENT UNIT, LONG-SHORT-TERM MEMORY NETWORKS AND BIDIRECTIONAL LONG-SHORT-TERM MEMORY NETWORKS**  
Latifoğlu L.  
3. ULUSAL BAŞKENT DİSİPLİNLER ARASI BİLİMSEL ÇALIŞMALAR KONGRESİ, 14 - 15 March 2021, pp.302-310
- IV. **Evaluating Stream Flow Forecasting Performance Using Adaptive Network Based Fuzzy Logic Inference System, Artificial Neural Networks with Feature Selection**  
LATİFOĞLU L.

IConTES 2020: International Conference on Technology, Engineering and Science, 29 November - 01 December 2020

V. **Kızılırmak Yamula Barajı Rezervuarında Sediment Dağılımının HEC-6 ile İncelenmesi**

ARDIÇLIOĞLU M., Latifoğlu L.

XVII. Teknik Kongre ve Sergisi, İstanbul, Turkey, 1 - 04 December 2004

VI. **The Modelling Of Kizilirmak-Yamula Station Sediment Movement With Hec-6**

Latifoğlu L., ARDIÇLIOĞLU M.

2nd FAE International Symposium, Cyprus (Kkctc), 1 - 04 September 2002

## **Supported Projects**

ARDIÇLIOĞLU M., KIZIL Y., LATİFOĞLU L., ÖZDİN S., Project Supported by Higher Education Institutions, DOĞAL AKARSULARDA AKIM ÖZELLİKLERİNİN ENTROPİ YÖNTEMİ İLE BELİRLENMESİ, 2009 - 2011

## **Metrics**

Publication: 26

Citation (WoS): 158

Citation (Scopus): 138

H-Index (WoS): 5

H-Index (Scopus): 5

## **Non Academic Experience**

DEVLET SU İŞLERİ XII. BÖLGE MÜDÜRLÜĞÜ