

Prof. Dr. Rasoul Daneshfaraz

*Professor of Hydraulics and Fluid Mechanics
at Civil Engineering Department, University of
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Google Scholar

profile: <https://scholar.google.com/citations?ser=QzCyZPQAAAAJ&hl=en>



Citations 2727

h-index 27

i10-index 84

Education

PhD 2004 –2008

Ege University, İzmir, Turkey.

Civil Engineering Department, Hydraulic Division

“The Transfer Matrix Method for The Solution of One Dimensional Flow Problems”

MS 2002 - 2004

Ege University, İzmir, Turkey.

Civil Engineering Department, Hydraulic Division

“Water Surface Profiles for Maximum Flood Discharges Bornova Creek”

BS 1991-1994

Water Engineering

Urmia University, Urmia, West Azerbaijan, Iran

Administrative and Managerial Experiences

- Founding Dean, Faculty of Engineering, University of Maragheh

- Founding Dean, Faculty of Humanities, University of Maragheh
- Vice President for Student Affairs, University of Maragheh (9 years)
- Director General of Education and Graduate Studies, University of Maragheh (1.5 years)
- Dean, Faculty of Engineering, University of Maragheh (3 years)
- Dean, Faculty of Humanities, University of Maragheh (6 months)
- Head, Department of Civil Engineering, University of Maragheh (3 years)
- Head, Department of Soil Science, University of Maragheh (4 years)
- Contributor to the development of the “Special Cases Student Affairs” Regulations, 2023
- Organizer of the National Meeting of Vice Presidents for Student Affairs, Ministry of [relevant Ministry], University of Maragheh (2023)
- Achieved recognition as the Top University in Facilities and Sports Spaces (2022)
- Upgraded female student dormitories from Level 4 to Level 1 at the national level
- Equipped Shahid Soleimani Women’s Dormitory using Student Welfare Fund resources (recognized as a national model)
- Established artificial-turf football fields for male students
- Created cycling spaces for both male and female students
- Procured bicycles through central student affairs funding
- Equipped multipurpose indoor and outdoor sports facilities for female students
- Initiated the construction of an auxiliary dining hall using external and student affairs resources
- Supported financially disadvantaged students in collaboration with faculty members and staff
- Supervised the university’s central cafeteria to ensure provision of healthy meals and contributed to its equipment through Student Affairs and the Student Welfare Fund
- Optimized food preparation and distribution processes, resulting in significant financial savings for the university

Awards and Recognitions

- Outstanding Researcher, Faculty of Engineering, University of Maragheh
- Distinguished Professor, Faculty of Engineering, University of Maragheh

Research Interest

- Open-channel flow

- Computational fluid dynamics
- Groundwater modeling
- River Engineering
- Sediment transport and Scouring
- Energy dissipation
- Pipe Hydraulics
- Water Hammer

Teaching Experience

University of Maragheh, Maragheh, Iran September 2008 - Present

- Advanced Computational Hydraulics (PhD)
- Sediment engineering (PhD)
- Hydrodynamics (PhD)
- Advanced Hydraulic (MS)
- Computational Hydraulics (MS)
- Physical Models (MS)
- Hydrodynamics (doctoral course)
- Fluid mechanics (BS)
- Hydraulics (BS)
- Water and Wastewater Engineering (BS)
- Computer programming by MATLAB (BS)

Publications

Books and book chapter

- Hydraulic Characteristics of Fish-passes on Inclined Drops with Multifarious Configurations: An Experimental Study, B P International, Research Developments in Science and Technology Vol. 4, 17 May 2022, Page 108-123 <https://doi.org/10.9734/bpi/rdst/v4/2294B> ISBN 978-93-5547-668-5, (Print) ISBN 978-93-5547-669-2 (eBook)
- Advanced Numerical Methods in Fluid Mechanics Engineering, Amidi Publications, Tabriz, 2009 (in Persian).

- Fluid Mechanics, University of Maragheh, 2010, (in Persian).
- A Review of Hydraulic of Free Surface Flow, University of Maragheh, 2012, (in Persian).
- Simulation of Hydraulic Problems Using Fluent, Amidi Publications, Tabriz, 2013 (in Persian).
- Review of the Computational Hydraulics, University of Maragheh, 2018, (in Persian).

ADMINISTRATIVE AND ACADEMIC DUTIES

- Head of Department, Department of Civil Engineering, Faculty of Engineering, University of Maragheh, Maragheh, East Azerbaijan, Iran, 2008-2009
- Faculty Board Member, 2018-2020
- Dean of the Faculty of Engineering, 2009-2010

Student Vice-Chancellor the University of Maragheh, 2014- 2022

Journal Publications

- 1- [Numerical Analysis of Double-Gasketed GRP Pipe Joints with Angular Deflections](#) 2026
D Firooznia, M Vaezi, R Daneshfaraz, JP Abraham
Journal of Pipeline Systems Engineering and Practice 17 (1), 06025002
- 2- [Exploring machine learning models for assessing energy dissipation on inclined gabion drops](#) 2025
M Bagherzadeh, M Mohammadi, R Daneshfaraz, A Ghaderi, M R Nikoo, A Kuriqi
Neural Computing and Applications 37 (28), 1-17
- 3- [Investigating the Effect of Grooves on the Hydraulic Parameters of a Sharp-crested Trapezoidal Side Weir](#) 2025
R Daneshfaraz, E Aminvash, R Omidvar, V Süme, HO Marangoz, ...
Journal of Applied Fluid Mechanics 18 (10), 2465-2475
- 4- [Enhancing energy dissipation in stepped weirs: numerical analysis and machine learning of ANN, SVM and non-linear regression predictions](#) 2025
P Ebadzadeh, H Abbaszadeh, R Daneshfaraz, J Abraham
Multiscale and Multidisciplinary Modeling, Experiments and Design 8 (8), 345 2025
- 5- [Estimating discharge coefficient of the sluice gate including, the semi-cylindrical sill utilizing multiple model strategy](#) 2025
P Ebadzadeh, R Daneshfaraz, B Nourani, J Abraham
Flow measurement and instrumentation 104, 102849
- 6- [Experimental study of the effects of hydraulic parameters and river materials on scouring around corrected piers group](#) 2025
M Majedi Asl, R Daneshfaraz, MA Mohammadi, S Valizadeh

- Modares Civil Engineering journal* 21 (5), 103-118
- 7- [An Experiment on the Effect of Sills with Orifices Under a Sluice Gate on Energy Dissipation and Hydraulic Jump](#) 2025
R Daneshfaraz, R Norouzi, B Akhondi, M Djahanghiri
Journal of Hydraulic Structures, 159-169
 - 8- [Hydraulic Performance Assessment of Denil Fishway with Modified Bed Slope and Baffle Spacing](#) 2025
R Daneshfaraz, A Ghaderi, H Shahini, A Azali
Results in Engineering, 105072
 - 9- [Shoaling and Sedimentation Dynamics in Fishery Shelters: A Case Study of Sandıktas Fishery Shelter](#) 2025
V Süme, E Yılmaz, HO Marangoz, R Daneshfaraz, P Ebadzadeh, ...
Journal of marine science and engineering 13 (4), 779
 - 10- [Investigating the Hydraulic Efficiency of the Labyrinth Weir Using the Flow3D Numerical Method](#) 2025
R Daneshfaraz, M Majedi Asl, T OmidPour Alavian
JWSS-Isfahan University of Technology 29 (1), 111-129
 - 11- [Experimental investigation of scouring parameters of the downstream bed of simple and gabion rostral drops](#) 2025
R Daneshfaraz, E Mehrivar, E Aminvash, M Rezaie
AQUA—Water Infrastructure, Ecosystems and Society 74 (4), 335-348
 - 12- [Sustainable wastewater management: A case study in Rize sewage network](#) 2025
V Süme, R Daneshfaraz, HO Marangoz, E Aminvash
Ain Shams Engineering Journal 16 (5), 103345
 - 13- [Enhancing Hydraulic Efficiency in Denil Fishway: Impact of Baffle Configurations on Flow Characteristics](#) 2025
R Daneshfaraz, A Ghaderi, A Azali, A Kuriqi
ACS ES&T Water
 - 14- [Application of intelligence models based on soft computing in investigating the discharge coefficient of the sluice gate under free-flow condition and symmetrical sill with the ...](#) 2025
H Abbaszadeh, Y Hassanzadeh, R Daneshfaraz, R Norouzi
Sharif Journal of Civil Engineering
 - 15- [The effect of sloping floodplain on flow resistance and discharge in straight compound channels with single floodplain](#) 2025
A Ghahramanzadeh, M Mohammadi, R Daneshfaraz
Flow Measurement and Instrumentation 102, 102810

- 16- [On the Multiple Steady Flow States in Spindle Shaped Geometry of Bridge Foundations](#) 2025
E Aminvash, R Daneshfaraz, V Sume, S Sadeghfam, J Abraham
Journal of Applied Fluid Mechanics 18 (1), 1-15

- 17- [Experimental investigation of the effect of perforated sill and orifice on sluice gate discharge coefficient](#) 2025
R Daneshfaraz, R Norouzi, B Akhondi, V Süme, H Marangoz, E Yilmaz
WATER SCIENCE

- 18- [Study of the Characteristics of The Hydraulic Jump in A Stilling Basin with An Adverse Slope and Different Baffle Blocks](#) 2025
R Daneshfaraz, A Ghaderi, S Rajjabi
Journal of Civil and Environmental Engineering 54 (3), 25-36

- 19- [The effect of gabion steps on the hydraulic jump characteristics downstream of stepped spillways](#) 2024
R Daneshfaraz, H Sadeghi, A Ghaderi, JP Abraham
Water Science 38 (1), 128-139

- 20- [Experimental study of the effect of non-structural materials on scouring of bridge piers with removal of river material: cationic polyacrylamide \(PAM\)](#) 2024
R Daneshfaraz, M Rezaie, E Aminvash, M Dasineh, J Abraham, V Süme
Innovative Infrastructure Solutions 9 (12), 486

- 21- [Design optimization of concrete gravity dams using grasshopper optimization algorithm](#) 2024
S Abbasi, M Seifollahi, S Farzaneh, R Daneshfaraz, V Süme, N Sadraei, ...
Innovative Infrastructure Solutions 9 (12), 453

- 22- [Estimating the effect of sand-roughened bed on hydraulic jump characteristics using heuristic models](#) 2024
R Daneshfaraz, SS Sammen, R Norouzi, SI Abba, A Salem, R Mirzaee, ...
Results in Engineering 23, 102724

- 23- [Energy Dissipation of Supercritical Flow with Use of Different Geometric Shapes of Sills](#) 2024
P Ebadzadeh, R Daneshfaraz, R Norouzi
Water and Soil Science 34 (2), 93-105

- 24- [Characteristics of hydraulic jump and energy dissipation in the downstream of stepped spillways with rough steps](#) 2024
R Daneshfaraz, H Sadeghi, A Ghaderi, JP Abraham
Flow Measurement and Instrumentation, 102506

- 25- [Experimental investigation on a new method for modifying the geometry of a vertical drop edge equipped with a screen on the amount of energy dissipation](#) 2024
R Daneshfaraz, R Norouzi, M Abar
Water Practice and Technology 19 (4), 1-14

- 26- [Laboratory investigation of the effect of hysteresis phenomenon of supercritical flow on the rough bed on the relative residual energy parameter](#) 2024
E Aminvash, R Daneshfaraz, S Sadeghfam, SB Mousavi
Journal of Hydraulic Structures 10 (2), 82-92

- 27- [Investigating and predicting hydraulic jump energy loss with threshold \(Experimental and regression analysis\)](#) 2024
H Abbaszadeh, P Ebadzadeh, R Daneshfaraz, R Norouzi
Journal of Hydraulic Structures 10 (2), 46-54

- 28- [Reducing the extent of vortices upstream of the sliding valve](#) 2024
P Ebadzadeh, H Abbaszadeh, R Daneshfaraz, R Norouzi
Journal of Hydraulic Structures 10 (2), 55-61

- 29- [Hydraulic Investigation of Triangular Plan Form Vertical Drops](#) 2024
M Abar, R Daneshfaraz, R Norouzi
Journal of Applied Fluid Mechanics 17 (7), 1411-1429

- 30- [Experimental investigation and application of soft computing models for predicting flow energy loss in arc-shaped constrictions](#) 2024
H Abbaszadeh, R Daneshfaraz, V Sume, J Abraham
AQUA—Water Infrastructure, Ecosystems and Society, jws2024010

- 31- [Hydraulic Investigation of Triangular Plan Form Vertical Drops](#) 2024
M Abar, R Daneshfaraz, R Norouzi
Journal of Applied Fluid Mechanics 17 (7), 1411-1429

- 32- [Characteristics of hydraulic jump and energy dissipation in the downstream of stepped spillways with rough steps](#) 2024
R Daneshfaraz, H Sadeghi, A Ghaderi, JP Abraham
Flow Measurement and Instrumentation, 102506

- 33- [Application of intelligence models based on soft computing in investigating the discharge coefficient of the sluice gate under free-flow condition and symmetrical sill with the ...](#) 2024
H Abbaszadeh, Y Hassanzadeh, R Daneshfaraz, R Norouzi
Sharif Journal of Civil Engineering

- 34- [Experimental investigation of the effect of contracted section at downstream of the rectangular channel on energy dissipation](#) 2024
R Daneshfaraz, B Zirei, P Ebadzadeh, H Abbaszadeh, SB Mousavi
Türk Hidrolik Dergisi 8 (1), 1-6
- 35- [Reducing the extent of vortices upstream of the sliding valve](#) 2024
P Ebadzadeh, H Abbaszadeh, R Daneshfaraz, R Norouzi
Journal of Hydraulic Structures 10 (2)
- 36- [Investigating and predicting hydraulic jump energy loss with threshold \(Experimental and regression analysis\)](#) 2024
H Abbaszadeh, P Ebadzadeh, R Daneshfaraz, R Norouzi
Journal of Hydraulic Structures 10 (2)
- 37- [Laboratory investigation of the effect of hysteresis phenomenon of supercritical flow on the rough bed on the relative residual energy parameter](#) 2024
E Aminvash, R Daneshfaraz, S Sadeghfam, SB Mousavi
Journal of Hydraulic Structures 10 (2)
- 38- [Investigation of the Performance of Soft Computing Methods in the Hydraulic Evaluation of the Slot Fishway on the Inclined Drop](#) 2024
E Aminvash, F Kalateh, R Daneshfaraz, J Abraham
Journal of Hydraulic Structures (JHS). 10 (1), 46-65
- 39- [Experimental investigation on a new method for modifying the geometry of a vertical drop edge equipped with a screen on the amount of energy dissipation](#) 2024
R Daneshfaraz, R Norouzi, M Abar
Water Practice and Technology 19 (4), 1-14
- 40- [On the hydraulic performance of the inclined drops: the effect of downstream macro-roughness elements](#) 2024
Farhoud Kalateh; Ehsan Aminvash; Rasoul Daneshfaraz
AQUA - Water Infrastructure, Ecosystems and Society jws2024304
- 41- [Investigation of clean energy production in drinking water networks](#) 2024
V Süme, R Daneshfaraz, A Kerim, H Abbaszadeh, J Abraham
Water Resources Management, 1-20

- 42- [The effect of gabion steps on the hydraulic jump characteristics downstream of stepped spillways](#) 2024
R Daneshfaraz, H Sadeghi, A Ghaderi, JP Abraham
Water Science 38 (1), 128-139
- 43- [Effect of geometric shapes of chimney weir on discharge coefficient](#) 2024
R Daneshfaraz, R Norouzi, H Abbaszadeh
Journal of Applied Water Engineering and Research, 1-12
- 44- [Reliability Analysis of Water Supply Channels for Conveying Design Flow](#) 2023
S Sadeghfam, H Shams, BM Crookston, A Babaeian Amini, R Daneshfaraz
Journal of Irrigation and Drainage Engineering(ASCE) 149 (12), 04023028
- 45- [Upstream vortices of a sluice gate: An experimental and numerical study](#) 2023
R Norouzi, P Ebadzadeh, V Sume, R Daneshfaraz
AQUA—Water Infrastructure, Ecosystems and Society 72 (10), 1906-1919
- 46- [Determination of flow characteristics over sharp-crested triangular plan form weirs using numerical simulation](#) 2023
R Daneshfaraz, R Norouzi, J Patrick Abraham, P Ebadzadeh, B Akhondi, ...
Water Science 37 (1), 211-224
- 47- [Sill Role Effect on the Flow Characteristics \(Experimental and Regression Model Analytical\)](#) 2023
H Abbaszadeh, R Norouzi, V Sume, A Kuriqi, R Daneshfaraz, J Abraham
Fluids 8 (8), 235
- 48- [Investigating and comparing the performance of collar and cable composition on scouring of cylindrical bridge piers](#) 2023
S Abbasi, S Ravaz, M Heidarpour, R Daneshfaraz, J Abraham
Sādhanā 48 (3), 149
- 49- [Laboratory and Theoretical Study of Hysteretic Effects on Hydraulic Characteristics of Flow at the Site of Smooth to Rough Bed Conversion](#) 2023
R Daneshfaraz, E Aminvash, S Sadeghfam
Iranian Journal of Science and Technology, Transactions of Civil Engineering ...
- 50- [On the effect of green nonstructural materials on scour reduction downstream of grid dissipators](#) 2023
R Daneshfaraz, M Rezaie, E Aminvash, V Süme, J Abraham, A Ghaderi

- 51- [Correction to: Estimation of Vertical Settlement of Earthen Dams Caused by Earthquake Using ANN Model and Wavelet-ANN Composition](#) 2023
S Abbasi, M Seifollahi, R Daneshfaraz, F Mohammadi, J Abraham, ...
Geotechnical and Geological Engineering, 1-1
- 52- [Estimation of Vertical Settlement of Earthen Dams Caused by Earthquake Using ANN Model and Wavelet-ANN Composition](#) 2023
S. Abbasi, M. Seifollahi, R. Danehfaraz, F. Mohammadi, J. Abraham & H
Geotechnical and Geological Engineering 41 (4)
- 53- [Influence of sill integration in labyrinth sluice gate hydraulic performance](#) 2023
R Daneshfaraz, R Norouzi, P Ebadzadeh, A Kuriqi
Innovative Infrastructure Solutions 8 (4), 118
- 54- [Prediction of Drop Relative Energy Dissipation Based on Harris Hawks Optimization Algorithm](#) 2023
R Daneshfaraz, CAG Santos, R Norouzi, MH Kashani, M AmirRahmani, ...
Iranian Journal of Science and Technology, Transactions of Civil Engineering ...
- 55- [Effect of geometric shapes of chimney weir on discharge coefficient](#) 2023
R Daneshfaraz, R Norouzi, H Abbaszadeh
Journal of Applied Water Engineering and Research, 1-12
- 56- [Experimental study of geometric shape and size of sill effects on the hydraulic performance of sluice gates](#) 2023
R Daneshfaraz, R Norouzi, P Ebadzadeh, S Di Francesco, JP Abraham
Water 15 (2), 314
- 57- [Maximum energy loss in a vertical drop equipped with horizontal screen with downstream rough and smooth bed](#) 2023
HA Yonesi, R Daneshfaraz, R Mirzaee, M Bagherzadeh
Water Supply 23 (2), 960-974
- 58- [Discharge coefficient of combined rectangular-triangular weirs using soft computing models](#) 2023
H Abbaszadeh, R Norouzi, V Süme, R Daneshfaraz, R Tarinejad
Journal of Hydraulic Structures 9 (1), 98-110

- 59- [Experimental Investigation of Hydraulic Jump Parameters in Sill Application Mode with Various Synthesis](#) 2023
H Abbaszadeh, R Daneshfaraz, R Norouzi
Journal of Hydraulic Structures 9 (1), 18-42
- 60- [Laboratory study of scouring around the roughened pile groups in the presence of material harvesting pits and at different Froude numbers](#) 2023
M Sattariyan, R Daneshfaraz, B Alinejad, M Majedi-Asl
Journal of Hydraulic Structures 8 (4), 29-44
- 61- [Theoretical and Numerical Analysis of Applicability of Elliptical Cross-Section on Energy Dissipation of Hydraulic Jump](#) 2022
R Daneshfaraz, H Abbaszadeh, E Aminvash
Türk Hidrolik Dergisi 6 (2), 22-35
- 62- [Performance efficiency of data-based hybrid intelligent approaches to predict crest settlement in rockfill dams](#) 2022
M Seifollahi, S Abbasi, A Pourtaghi, R Daneshfaraz, J Abraham, ...
Arabian Journal of Geosciences 15 (23), 1701
- 63- [Hydraulic jump over an adverse slope controlled by different roughness elements](#) 2022
P Parsamehr, A Kuriqi, D Farsadizadeh, AH Dalir, R Daneshfaraz, ...
Water Resources Management 36 (14), 5729-5749
- 64- [Optimization of gravity concrete dams using the grasshopper algorithm \(case study: Koyna Dam\)](#) 2022
M Seifollahi, S Abbasi, J Abraham, R Norouzi, R Daneshfaraz, ...
Geotechnical and Geological Engineering 40 (11), 5481-5496
- 65- [Theoretical and experimental analysis of applicability of sill with different widths on the gate discharge coefficients](#) 2022
R Daneshfaraz, R Norouzi, H Abbaszadeh, HM Azamathulla
Water Supply 22 (10), 7767-7781
- 66- [Laboratory study of energy dissipation on the gabion vertical drop](#) 2022
R Daneshfaraz, SA Mortazavi, M Majedi Asl, M Bagherzadeh, J Abraham
Innovative Infrastructure Solutions 7 (5), 328
- 67- [Experimental Investigation on Hydraulic Efficiency of Vertical Drop Equipped with Vertical Screens](#) 2022

Rasoul DANESHFARAZ, Sina SADEGHFAM, Vadoud HASANNIYA,
John ABRAHAM, Reza NOROUZI
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers 33 (5 ...

- 68- [Laboratory evaluation of energy dissipation in the combined structure of the vertical drop with gabion](#) 2022
R Daneshfaraz, M Majedi-Asl, SA Mortazavi, M Bagherzadeh
Civil Infrastructure Researches 8 (1), 145-157

- 69- [Influence of sill on the hydraulic regime in sluice gates: an experimental and numerical analysis](#) 2022
R Daneshfaraz, R Norouzi, H Abbaszadeh, A Kuriqi, S Di Francesco
Fluids 7 (7), 244

- 70- [Numerical Investigation of Hydraulic Characteristics Effective on Vertical Drop](#) 2022
R Daneshfaraz, V Hasanniya, R Norouzi
Numerical Methods in Civil Engineering 7 (1), 1-8

- 71- [Hydraulic Characteristics of Fish-passes on Inclined Drops with Multifarious Configurations: An Experimental Study](#) 2022
R Daneshfaraz, E Aminvash, J Abraham
Research Developments in Science and Technology Vol. 4, 108-123

- 72- [Experimental and numerical study of sluice gate flow pattern with non-suppressed sill and its effect on discharge coefficient in free-flow conditions](#) 2022
R Daneshfaraz, R Norouzi, P Ebadzadeh
Journal of Hydraulic Structures 8 (1), 1-20

- 73- [Experimental investigation of scouring around a single spur under clear water conditions](#) 2022
C Özyaman, C Yerdelen, E Eris, R Daneshfaraz
Water supply 22 (3), 3484-3497

- 74- [Experimental Investigation of Multiple Supercritical Flow States and the Effect of Hysteresis on the Relative Residual Energy in Sudden and Gradual Contractions](#) 2022
Rasoul Daneshfaraz, Sina Sadeghfam, Ehsan Aminvash, John Patrick Abraham
Iranian Journal of Science and Technology, Transactions of Civil Engineering ...

- 75- [Influence of Sill on the Hydraulic Regime in Sluice Gates: An Experimental and Numerical Analysis. Fluids 2022, 7, 244](#) 2022
R Daneshfaraz, R Norouzi, H Abbaszadeh, A Kuriqi, S Di Francesco

- 76- [Experimental study of hysteretic behavior of supercritical regime on hydraulic parameters of flow against gabion contraction](#) 2022
R Daneshfaraz, E Aminvash, A Najibi
Iranian Journal of Soil and Water Research 53 (1), 33-44

- 77- [The impact of cables on local scouring of bridge piers using experimental study and ANN, ANFIS algorithms](#) 2022
R Daneshfaraz, M Abam, M Heidarpour, S Abbasi, M Seifollahi, ...
Water Supply 22 (1), 1075-1093

- 78- [Predicting the energy dissipation of a rough sudden expansion rectangular stilling basins using the SVM algorithm](#) 2021
R Daneshfaraz, E Aminvash, R Mirzaee, J Abraham
Journal of Applied Research in Water and Wastewater 8 (2), 98-106

- 79- [Predicting relative energy dissipation for vertical drops equipped with a horizontal screen using soft computing techniques](#) 2021
R Norouzi, P Sihag, R Daneshfaraz, J Abraham, V Hasannia
Water Supply 21 (8), 4493-4513

- 80- [Estimation of the Local Scour from a Cylindrical Bridge Pier Using a Compilation Wavelet Model and Artificial Neural Network](#) 2021
M Seifollahi, MA Lotfollahi-Yaghin, F Kalateh, R Daneshfaraz, S Abbasi, ...
Journal of Hydraulic Structures (JHS) 7 (3), 1-22

- 81- [Application of sluice gate in different positions and its effect on hydraulic parameters in free-flow conditions](#) 2021
R Daneshfaraz, H Abbaszadeh, P Gorbanvatan, M Abdi
Journal of Hydraulic Structures 7 (3), 72-87

- 82- [Statistical downscaling of precipitation using inclusive multiple modelling \(IMM\) at two levels](#) 2021
S Sadeghfam, R Khatibi, T Moradian, R Daneshfaraz
Journal of Water and Climate Change 12 (7), 3373-3387

- 83- [Laboratory investigation of hydraulic parameters on inclined drop equipped with fishway elements](#) 2021

R Daneshfaraz, E Aminvash, M Bagherzadeh, A Ghaderi, A Kuriqi, ...
Symmetry 13 (9), 1643

- 84- [Investigating the Effect of Horizontal Screen on Hydraulic Parameters of Vertical Drop](#) 2021
Rasoul Daneshfaraz, Vadoud Hasannia, Reza Norouzi, Parveen Sihag, Sina ...
Iranian Journal of Science and Technology, Transactions of Civil Engineering ...
- 85- [Investigation of Local Scouring around Hydrodynamic and Circular Pile Groups under the Influence of River Material Harvesting Pits](#) 2021
R Daneshfaraz, A Ghaderi, M Sattariyan, B Alinejad, MM Asl, ...
Water 13 (16), 1-19
- 86- [Three-dimensional study of the effect of block roughness geometry on inclined drop](#) 2021
R Daneshfaraz, E Aminvash, S Di Francesco, A Najibi, J Abraham
Numerical Methods in Civil Engineering 6 (1), 1-9
- 87- [The laboratory study of energy dissipation in inclined drops equipped with a screen](#) 2021
R Daneshfaraz, M Majedi Asl, A Bazayr, J Abraham, R Norouzi
Journal of Applied Water Engineering and Research 9 (3), 184-193
- 88- [Effect of Different Channels on Discharge Coefficient of Labyrinth Weirs](#) 2021
Amir Ghaderi, Rasoul Daneshfaraz, John Abraham, Mohammadamin Torabi
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers 32 (4 ...
- 89- [Three-dimensional investigation of hydraulic properties of vertical drop in the presence of step and grid dissipators](#) 2021
R Daneshfaraz, E Aminvash, A Ghaderi, A Kuriqi, J Abraham
Symmetry 13 (5), 895
- 90- [SVM Performance for Predicting the Effect of Horizontal Screen Diameters on the Hydraulic Parameters of a Vertical Drop](#) 2021
R Daneshfaraz, E Aminvash, A Ghaderi, J Abraham, M Bagherzadeh
Applied Sciences 11 (9), 4238

- 91- [Experimental investigation of gabion inclined drops as a sustainable solution for hydraulic energy loss](#) 2021
R Daneshfaraz, M Bagherzadeh, A Ghaderi, S Di Francesco, ...
Ain Shams Engineering Journal
- 92- [Effects of hydraulic characteristics, sedimentary parameters, and mining of bed material on scour depth of bridge pier groups](#) 2021
M Majedi-Asl, R Daneshfaraz, J Abraham, S Valizadeh
Journal of Performance of Constructed Facilities 35 (2), 04020148
- 93- [Experimental study of the effect of horizontal screen diameter on hydraulic parameters of vertical drop](#) 2021
R Daneshfaraz, A Ghaderi, SD Francesco, N Khajei
Water Supply 21 (-), 1-34
- 94- [Experimental investigation on hydraulic efficiency of vertical drop equipped with vertical screens](#) 2021
R Daneshfaraz, S Sadeghfam, V Hasannia, J Abraham, R Norouzi
Teknik Dergi 33 (5)
- 95- [Study of the performance of support vector machine for predicting vertical drop hydraulic parameters in the presence of dual horizontal screens](#) 2021
R Daneshfaraz, M Bagherzadeh, R Esmaeeli, R Norouzi, J Abraham
Water supply 21 (1), 217-231
- 96- [The effect of strength parameters on the seismic performance of an arch dam using an uncertainty model](#) 2021
M Pasbani Khiavi, P Ahmadi, R Daneshfaraz, J Abraham
Revista de la Construcción 20 (3), 602-616
- 97- [Experimental and numerical investigation for energy dissipation of supercritical flow in sudden contractions](#) 2020
Rasoul Daneshfaraz, Ehsan Aminvash, Reza Esmaeli, Sina Sadeghfam, John Abraham
Journal of Groundwater Science and Engineering 8 (4), 396-406
- 98- [Numerical analysis of the hydraulic characteristics of modified labyrinth weirs](#) 2020
A Ghaderi, R Daneshfaraz, S Abbasi, J Abraham
International Journal of Energy and Water Resources 4, 425-436

- 99- [A study of land subsidence problems by ALPRIFT for vulnerability indexing and risk indexing and treating subjectivity by strategy at two levels](#) 2020
S Sadeghfam, F Nourbakhsh Khiyabani, R Khatibi, R Daneshfaraz
Journal of Hydroinformatics 22 (6), 1640-1662
- 100- [On the effect of block roughness in ogee spillways with flip buckets](#) 2020
R Daneshfaraz, A Ghaderi, A Akhtari, S Di Francesco
Fluids 5 (4), 182
- 101- [Energy dissipation and hydraulics of flow over trapezoidal–triangular labyrinth weirs](#) 2020
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- 248- Ehsan Aminvash*, **Rasoul Daneshfaraz**, (DECEMBER-2020), [Numerical Investigation Of Energy Dissipation In Sudden Contraction](#), V. International Scientific and Vocational Studies Congress – Engineering (BILMES EN 2020), 12-15 December 2020, TURKEY 2020

➤ ***Master and Doctorate Thesis Supervision:***

No	Full Name of Student	Level	Title of Thesis
1	Reza Sadeghi	M.Sc.	Simulation Dissipation of Energy on Stepped Spillways of Siyahbishe Dam by Flow3D
2	Nader Zogi	M.Sc.	The Assessment of the Probability of Development of Cavitations at the Stairy From Overflow of the Siyahbishe Dam Using Flow3D
3	Ali Keshavarzi	M.Sc.	Flood Plain Determination using Hec-Ras and Arc-GIS
4	Reza Dehghan	M.Sc.	Evaluation of Manning Roughness Coefficient on Hydraulic Flow Behavior in Zonooz River by Hec-Ras

5	Razmyar Radmehr	M.Sc.	Comparison of AFT-IMPLUS , HAMMER and HYTRAN models for Computing Water Hammer Dashte Abbas Project as a Case Study
6	Yahya Alipur	M.Sc.	3-D Investigation of Velocity Profile and Pressure Distribution in Bends with Different Diversion Angle
7	Azadeh Tahni	M.Sc.	Experimental Investigation of Energy Dissipation in Screen Plates Through Hydraulic Jump on Movable Bed
8	Amir Ghaderi	M.Sc.	
9	Hadi Nezafat	M.Sc.	Experimental Investigation of Scouring due Hydraulic Jump in Screens
10	Alireza Khoshfetrat	M.Sc.	Investigation of real and simulated data in water hammer phenomena
11	Roghayeh Adami	M.Sc.	Numerical investigation of seepage below a dam by using RBF method
12	Omar Minaei	M.Sc.	Experimental Investigation of Channel Bed Scouring and Control, due to Hydraulic Jump through Screens
13	Saeed Dastgiri	M.Sc.	Investigation of Air Behavior in the Water Conveyance Systems during Rapid Filling or Emptying Process
14	Mehdi Dasineh	M.Sc.	Experimental investigation on the pit migration due to sand and gravel mining from rivers.
15	Reza Mirzaee	M.Sc.	Experimental investigation of bed roughness on S-jump Characteristics in abruptly Expansion Stilling Basin
16	Vadoud Hasanniya	M.Sc.	Experimental investigation of flow energy dissipation through the screens application in drops
17	Salar Sarkeshi	M.Sc.	Rainfall runoff simulation of miyandoab watershed using ARC GIS and HEC HMS softwares
18	Saeideh Vlizadaeh	M.Sc.	Experimental investigation of scour around the bridge pier group at the upstream and downstream of the pit hole from the mining of river material
19	Ali Baziyar	M.Sc.	Experimental investigation of flow energy dissipation using the screens in inclined drops
20	Shaban Razmi	M.Sc.	Study of energy dissipation with a subcritical flow in upstream vertical drop using the double horizontal screens
21	Mohammad Bagherzadeh	M.Sc.	Experimental Study of Flow Energy Dissipation in Inclined Gabion Drops in Presence of Screen
22	Maryam Sattariyan	M.Sc.	Experimental Investigation of Scouring Around the Pile Groups Modified with Roughness due to Sand and Gravel Mining from the River
23	Navid Khajeie	M.Sc.	Experimental Study of the Effect of screen Diameter on hydraulic parameters of Vertical drop

● **REVIEWER**

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