RASOUL DANESHFARAZ

Professor of Hydraulics and Fluid Mechanics
at Civil Engineering Department, University of
Maragheh, Maragheh, East Azerbaijan, Iran.

Phone: (+98) 41-3727 8900 (Ext. 154)
Email: daneshfaraz@maragheh.ac.ir
Email: daneshfaraz@yahoo.com

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"

Supervisor: Prof. Dr. Birol Kaya- Prof. Dr. Selim Altun

MS 2002 - 2004

Ege University, İzmir, Turkey.
Civil Engineering Department, Hydraulic Division

"Water Surface Profiles For Maximum Flood Discharges Bornova Creek"

Supervisor: Prof. Dr. Birol Kaya
Advisor: Dr. Ahmet Alkan

BS 1991-1994

Water Engineering
Urmia University, Urmia, Iran

RESEARCH INTEREST

- Open-channel flow
- Computational fluid dynamics
- Groundwater modeling
- River Engineering
- Sediment transport
- Pipe Hydraulics
- Water Hammer

TEACHING EXPERIENCE

University of Maragheh, Maragheh, Iran September 2008 - Present

- Advanced Hydraulic (MS)
- Computational Hydraulics (MS)
- Physical models (MS)

- Fluid mechanics (BS)
- Hydraulics (BS)
- Water and Wastewater Engineering (BS)
- Computer programming by MATLAB (BS)

PUBLICATIONS

Books

- Advanced Numerical Methods in Fluid Mechanics Engineering, Amidi Publihcations, 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 Publihcations, Tabriz, 2013. (in Persian).
- Review of the Computational Hydraulics, University of Maragheh, 2018, (in Persian).

JOURNAL PUBLICATIONS

- **Daneshfaraz R,** Ghaderi A, Abraham J, Torabi M., 2021, Effect of Different Channels on Discharge Coefficient of Labyrinth Weirs. ***Teknik Dergi***, 32(4): 0-0.
- Amir Ghaderi, **Rasoul Daneshfaraz**, Mohammadamin Torabi, John Abraham, Hazi Mohammad Azamathulla, 2020, Experimental Investigation on Effective Scouring Parameters Downstream from Stepped Spillways, ***Water Supply***.
- **Daneshfaraz**, **R**., Majedi Asl, M., Razmi, S., Norouzi, R. and John Abraham, 2020, Experimental Investigation of the Effect of Dual Horizontal Screens on the Hydraulic Performance of a Vertical Drop, ***International Journal of Environmental Science and Technology***, https://doi.org/10.1007/s13762-019-02622-x.
- Sadeghfam, S., Khatibi, R., **Daneshfaraz, R.** and Rashidi, H.B., 2020. Transforming Vulnerability Indexing for Saltwater Intrusion into Risk Indexing through a Fuzzy Catastrophe Scheme. ***Water Resources Management***, https://doi.org/10.1007/s11269-019-02433-2, 34(1), pp.175-194.
- **Daneshfaraz**, **R**., Sadeghfam, S. and Tahni, A., 2019, Experimental Investigation of Screen as Energy Dissipators in the Movable-Bed Channel, ***Iranian Journal of Science and Technology, Transactions of Civil Engineering***, https://doi.org/10.1007/s40996-019-00306-7

- **Daneshfaraz**, **R**. Minaei, O., Abraham, J., Dadashi, S. and Ghaderi. A. (2019) "3-D Numerical simulation of water flow over a broad-crested weir with openings", ***ISH Journal of Hydraulic Engineering***, https://doi.org/10.1080/09715010. 2019. 1581098

- Sadeghfam, S., **Daneshfaraz, R.,** Khatibi, R., and Minaei, O., (2019) "Experimental studies on scour of supercritical flow jets in upstream of screens and modelling scouring dimensions using artificial intelligence to combine multiple models (AIMM)", ***Journal of Hydroinformatics,*** https://doi.org/10.2166/hydro.2019.076

- Norouzi, R., **Daneshfaraz, R.** and Ghaderi, A., (2019), "Investigation of discharge coefficient of trapezoidal labyrinth weirs using artificial neural networks and support vector machines", ***Applied Water Science,*** 9 (45), 3-10, https://doi.org/10.1007/s13201-019-1026-5.
- Ghaderi, A., **Daneshfaraz, R.** and Dasineh, M., 2019. Evaluation and prediction of the scour depth of bridge foundations with HEC-RAS numerical model and empirical equations (Case Study: Bridge of Simineh Rood Miandoab, Iran). ***Engineering Journa***l, https://doi.org/10.4186/ej.2019.23.6.279, 23(6), pp.279-295.
- Ghazi, B., **Daneshfaraz, R.** and Jeihouni, E., Numerical investigation of hydraulic characteristics and prediction of cavitation number in Shahid Madani Dam's Spillway. ***Journal of Groundwater Science and Engineering***, https://doi.org/10.19637/j.cnki.2305-7068.2019.04.003, 7(4), pp.323-332.
- **Daneshfaraz, R.,** Mirzaee, R. and MajediAsl, M. (2019), "The S-jump's Characteristics in the Rough Sudden Expanding Stilling Basin", ***AUT Journal of Civil Engineering,*** https://doi.org/10.22060/AJCE.2019.16427.5586
- **Daneshfaraz, R.,** Dasineh, M. Ghaderi, A. Sadeghfam, S. (2019), "Numerical Modeling of Hydraulic Properties of Sloped Broad Crested Weir", ***AUT Journal of Civil Engineering,*** https://doi.org/ 10.22060/AJCE.2019.16184.5574

- **Daneshfaraz, R.,** Rezazadehjoudi,A. and Abraham, J. (2018) " Numerical investigation on the effect of sudden contraction on flow behavior in a 90-degree bend", ***KSCE Journal of Civil Engineering***, Volume 22, Issue 2, pp 603–612 https://doi:10.1007/s12205-017-1313-3

- Sadeghfam, S., Ehsanitabar, A., Khatibi, R., & **Daneshfaraz, R**., 2018, Investigating 'risk'of groundwater drought occurrences by using reliability analysis. ***Ecological Indicators***, 94, 170-184. https://doi.org/10.1016/j.ecolind.2018.06.055

- Gorman, J. M. Sparrow, E. M. Smith, C. J. Ghosh, A. Abraham, J. P. **Daneshfaraz, R** & A. Rezazadeh Joudi, 2018, In-bend pressure drop and post-bend heat transfer for a bend with a partial blockage at its inlet", ***Numerical Heat Transfer***, Volume 73, Issue 11, Pages: 743-767. https://doi.org/10.1080/10407782.2018.1460564

- **Daneshfaraz, R.,** Sadeghfam, S., & Ghahramanzadeh, A. (2017). Three-dimensional numerical investigation of flow through screens as energy dissipators. ***Canadian Journal of Civil Engineering***, 44(10), 850-859. https://doi.org/10.1139/cjce-2017-0273

- Sadeghfam**, S**., Khatibi, R., Hassanzadeh, Y., **Daneshfaraz, R**., & Ghorbani, M. A. (2017). Forced hydraulic jumps described by classic hydraulic equations reproducing cusp catastrophe features. ***Arabian Journal for Science and Engineering***, *42*(9), 4169-4179. https://link.springer.com/article/10.1007%2Fs13369-017-2616-x

- **Daneshfaraz**, R. Rahmati, M., and Akbari Moghanjiq, P. (2017)" Soil erosion and sediment mapping in Aidoghmoush watershed appling MPSIAC model and GIS and RS technologies", ***Environmental Resources Research***, Volume 5, Issue 1, Page 35-49, https://doi.org/10.22069/IJERR.2017.9991.1119

- **Daneshfaraz, R.** and Ghaderi, A. (2017) "Numerical Investigation of Inverse Curvature Ogee Spillway", ***Civil Engineering Journal***, Vol. 3, No. 11, Pages: 1146-1156. https://doi.org/10.28991/cej-030944

- **Daneshfaraz, R.,** Ghahramanzadeh, A., Ghaderi,A. Rezazadeh Joudi, A. and Abraham, J.(2016) "Investigation the effect of edge shape on characteristics of flow under vertical gates", ***Journal American Water Works Association***,Volume / Number: 108, 8,PP: 425-432, https://doi.org/10.5942/jawwa.2016.108.0102

- Pakger, F., **Daneshfaraz, R.,** and Rezazadeh Joudi,(2016)"Numerical Simulation of Flow on a Siphon Spillway and Investigation of the Effect of a Bottom/Outlet Angle on

Hydraulic Parameters", ***Sigma Journal Engineering and Natural Sciences***, 34 (1), 279-290.

- Sadeghfam**, S.**, Akhtari, A. A**., Daneshfaraz, R.,** & Tayfur, G. (2015). Experimental investigation of screens as energy dissipaters in submerged hydraulic jump. ***Turkish Journal of Engineering and Environmental Sciences***, 38(2), 126-138. https://journals.tubitak.gov.tr/engineering/abstract.htm?id=16367.

- **Daneshfaraz, R.,** Kaya, B., Sadeghfam, S., and Sadeghi, H.," Simulation of Flow over Ogee and Stepped Spillways and Comparison of Finite Volume and Finite Element Methods" *Journal of Water Resource and Hydraulic Engineering* (JWRHE). Jun. 2014, Vol. 3 Iss. 2, PP 37-47.

- Hasanpur, M., **Daneshfaraz,R.,** Ghorbani, M. A., Najafi, M. R. and Kisi, O., (2013) "Comparison of different methods for developing astage–discharge curve of the Kizilirmak River", ***Journal of Flood Risk Management,*** https://doi.org/10.1111/jfr3.12064

- **Daneshfaraz, R,.** and Kaya, B.,(2008)" Solution of the propagation of the waves in open channels by Transfer Matrix Method " Elsevier. , ***Ocean Engineering*** , Volume 35, Issues 11–12, PP:1-14. https://doi.org/10.1016/j.oceaneng.2008.05.002.

- **Daneshfaraz, R.,** Majedi Asl, M., Mirzaeereza, R. (2019). 'Experimental Study of Expanding Effect and Sand-Roughened Bed on Hydraulic Jump Characteristics', *Iranian **Journal of Soil and Water Research***, 50(4), pp. 885-896. https://doi: 10.22059/ijswr.2018.261923.667968. (in Farsi)

- **Daneshfaraz, R.,** Chabokpour, J., Nezafat, H. (2019). 'Experimental Investigation of the Scouring due to Hydraulic Jump in Screens', ***Iranian Journal of Soil and Water Research,*** 50(5), pp. 1039-1051. https://doi: 10.22059/ijswr.2018.251621.667846. (in Farsi)

- **Daneshfaraz, R.,** Sadeghfam, S., Hasanniya, V., 2019, Experimental Investigation of Energy Dissipation in Vertical Drops Equipped with a Horizontal Screen under Supercritical Flow', ***Iranian Journal of Soil and Water Research***, 50(6), pp. 1421-1436. https://doi: 10.22059/ijswr.2019.269301.668053. (in Farsi)

- **Daneshfaraz, R.,** Sadeghfam, S., Hasanniya, V. (2019). 'Experimental Investigation of Energy Dissipation in Vertical Drops Equipped with a Horizontal Screen under Supercritical Flow', ***Iranian Journal of Soil and Water Research***, 50(6), pp. 1421-1436. https://doi: 10.22059/ijswr.2019.269301.668053. (in Farsi)

- **Daneshfaraz, R.,** Chabokpour, J., Desineh, M., Ghaderi, A. (2019). 'The Experimental Study of the Effects of River Mining Holes on the Bridge Piers', ***Iranian Journal of Soil and Water Research,*** 50(7), pp. 1619-1633. https://doi: 10.22059/ijswr.2019.274711.668110. (in Farsi)

- **Daneshfaraz, R.,** Sadeghfam, S., Minaei, O. (2020). 'Experimental Study of Energy Dissipation in the Stilling Basin with Movable Bed in the Upstream of Screens', ***Iranian Journal of Soil and Water Research***, 50(9), pp. 2113-2123. https://doi: 10.22059/ijswr.2019.277537.668145. (in Farsi)
- **Daneshfaraz, R.,** Hasanniya, V., Mirzaei, R., Bazyar, A. (2019). 'Experimental investigating effect of positive slope of the horizontal screen on hydraulic characteristics of vertical drop', ***Iranian Journal of Soil and Water Research***, (), pp. -. https://doi: 10.22059/ijswr.2019.283685.668238.(in Farsi)
- **Daneshfaraz, R.,** Majedi Asl, M., Bazyar, A. (2019). 'Experimental investigation of the effect of the horizontal Screen on the energy dissipation in inclined drop', ***Iranian Journal of Soil and Water Research***, (), pp. -. https://doi: 10.22059/ijswr.2019.288653.668312. (in Farsi)
- Majedi Asl, M., **Daneshfaraz, R.,** valizadeh, S. (2019). 'Experimental Investigation of the River Materials Mining Effect on the Scouring Around Armed Pier Groups', ***Iranian Journal of Soil and Water Research***, 50(6), pp. 1363-1380. https://doi: 10.22059/ijswr.2019.269942.668062.(in Farsi)
- Azhdan, Y., Emadi, A., Chabokpour, J., **Daneshfaraz, R.** (2019). 'Estimation of Transient Storage Parameters for Simulation of Pollution Transport in the Gravel Bed Rivers', ***Iranian Journal of Soil and Water Research***, 50(1), pp. 65-76. https://doi: 10.22059/ijswr.2018.244186.667776
- Norouzi Sarkarabad, R., **Daneshfaraz, R.,** Bazyar, A. (2019). 'The Study of Energy Depreciation due to the use of Vertical Screen in the Downstream of Inclined Drops by

Adaptive Neuro-Fuzzy Inference System (ANFIS)', ***Amirkabir Journal of Civil Engineering***, (), pp. -. https://doi: 10.22060/ceej.2019.16694.6305.

- **Daneshfaraz**, R., Sadeghfam, S., Hasannia, V. (2019). 'Experimental investigating effect of Froude number on hydraulic parameters of vertical drop with supercritical flow upstream', ***Amirkabir Journal of Civil Engineering***, (), pp. -. https://doi: 10.22060/ceej. 2019.15655.598.
- Hasannia, V., **Daneshfaraz, R.,** Sadeghfam, S. (2019). Experimental investigating on hydraulic parameters of vertical drop equipped with combined screens, ***Amirkabir Journal of Civil Engineering***, (), pp. -. https://doi: 10.22060/ceej.2019.16431.6223
- Ghaderi, A., **Daneshfaraz, R.,** Zaerkabehc, R., Ashkan, F. (2018). 'Experimental Investigation of Stepped Spillways' Downstream Erosion Control using Microsilica-Structured and Nano Materials, ***Amirkabir Journal of Civil Engineering***, (), pp. -. https://doi: 10.22060/ceej.2018.14919.5781.
- Nayebzadeh, B., Lotfollahi-yaghin, M., **Daneshfaraz, R.** (2019). Experimental study of Energy Dissipation at a Vertical Drop Equipped with Vertical Screen with Gradually Expanding at the Downstream, ***Amirkabir Journal of Civil Engineering***, (), pp. -. https://doi: 10.22060/ceej.2019.16493.6265.
- Azhdan, Y., Emadi, A., Chabokpour, J**., Daneshfaraz, R.** (2018). 'Experimental and Numerical Study of Advection- Dispersion of Pollutant in a Gravel Bed Rivers', ***Water and Soil Science***, 28(4), pp. 127-139.
- Navaei, B., Akhtari, A., **Daneshfaraz, R.** (2016). 'Experimental Study of Flip Bucket Effect at the End of Ogee Spillway on Energy Dissipation and Jet Length', **Water and Soil Science,** 26(3-2), pp. 133-142.
- Eghbali, P., **Daneshfaraz, R.,** Saghebian, S. (2013). 'Simulation of Temporal Development of Scour Hole Around an Wing-wall Abutment Using Gene Expression Programming', ***Water and Soil Science***, 23(1), pp. 177-188.
- **Daneshfaraz, R.,** Majediasl, M., Mirzaee, R., Parsamehr, P., 2020, Experimental study of the roughness bed with non-continuous trapezoidal elements on S-jump characteristics in the non-prismatic rectangular channel', ***Sharif Journal of Civil Engineering***, (), pp. -. https://doi:10.24200/j30.2018.51630.2423.

- Sadeghi, H., **Daneshfaraz, R.,** Behmanesh, J., Nikpour, M. (2015). 'The Effect of Shape of Walls of Expansions on the Characteristics of Hydraulic Jump', ***Sharif Journal of Civil Engineering***, 31.2(2.2), pp. 57-62.
- Khoshfetrat, A., **Daneshfaraz, R.,** Behmanesh, J. (2018). 'Numerical Comparison of Various Methods of Transient Flow Calculation in Water Conveyance Systems with Pumping Station', Journal of Water and Wastewater; ***Ab va Fazilab*** (in persian), 29(2), pp. 85-100. https://doi:10.22093/wwj.2017.54595.2198.
- Majedi Asl, M., **Daneshfaraz, R.,** valizadeh, S. (2019). 'The experimental study of the river sand and gravel mining on the scouring pattern around pier group', ***Journal of Hydraulics,*** 14(3), pp. 115-130. https://doi:10.30482/jhyd.2019.186662.1391.
- Rezaie, M., **Daneshfaraz, R.,** Dasineh, M. (2018). 'Experimental Investigation of Adding Clay and PAM on Scour Reduction Bridge Piers under the influence Removal of River materials', ***Journal of Hydraulics***, 13(3), pp. 59-70. https://doi: 10.30482/jhyd. 2018. 81358.
- Chabokpour, J., Minaei, O., **Daneshfaraz, R.** (2017). 'Study of the Longitudinal Dispersion Coefficient of Nonreactive Solute through the Rockfill Medium', *Journal of Hydraulics*, 12(2), pp. 1-12. https://doi: 10.30482/jhyd.2017.49971.
- **Daneshfaraz, R.,** sadeghfam, S., Saei, V. (2019). 'Effect of Roughness at Downstream of Ogee Spillway in Order to Hydraulic Jump Control', ***Irrigation and Drainage Structures Engineering Research,*** 20(74), pp. 27-40. https://doi: 10.22092/idser.2018.114595.1235
- Rezaie, M., Qhaderi, A., **Daneshfaraz, R.** (2019). 'Experimental Investigation of Clay and Nano-Clay Montmorillonite Effect on Scour Reduction at Downstream of Screen', ***Irrigation and Drainage Structures Engineering Research,*** 19(73), pp. 1-16. https://doi: 10.22092/aridse.2017.109677.1195
- **Daneshfaraz, R.,** Moazamnia, M., sadeghfam, S. (2018). 'Estimating the Velocity Distribution in Narrow Combined Sewers using Entropy Theory', ***Irrigation and Drainage Structures Engineering Research,*** 19(71), pp. 1-18. https://doi:10.22092/idser.2018. 109139.1182
- **Daneshfaraz, R.,** Sadeghfam, S., Rezazadeh Joudi, A. (2017). 'Experimental investigation on the effect of screen's location on the flow's energy dissipation', ***Irrigation and Drainage***

Structures Engineering Research, 17(67), pp:47-62. https://doi:10.22092/aridse.2017.109616

- **Rasoul Daneshfaraz**, Mahdi Majedi Asl, Shaban Razmi, 2020, Comparison of energy dissipation of double horizontal Screen toward the use of stilling basins at downstream of vertical drop, ***Iranian Journal of Soil and Water Research.***

CONFERENCE PAPERS

- Sezer, A., Inan and **Daneshfaraz, R**. "Comparison of the Numerical Solutions of the Unsteady Flow in Open Channels of Trapezoidal Cross-Section", 2. Usual Su Muhandisligi Sempozyumu, 2005, PP: 661-671, Gumuldur.
- Sezer, A., Inan and **Daneshfaraz, R**. "Solution of The Unsteady Flow In Open Channels Of Rectangular Cross-Section By Various Methods", 2. Ulusal Su Muhandisligi Sempozyumu, 2005, PP: 399-409, Gumuldur.
- Kaya, B., **Daneshfaraz, R.,** Alkan and Eris "Flood Peak Discharges and Cross-Section Capacities of Laka Creek, EUROPEN WATER RESOURCES ASSOCIATION", *EWRA SYMPOSİUM ON WATER RESOURCES MANAGEMENT: RİSKS AND CHALLENGES FOR THE 21 ST CENTURY PROCEEDİNGS*", 2-4 September 2004, PP: 687-692.
- Eris., **Daneshfaraz, R.,** Alkan and Kaya, B. Channel Capacity Analysis Of Laka Stream For Foolds, 2005, PP:495-502, Gumuldur.
- Kaya, B., **Daneshfaraz, R.,** "Water Surface Profile Of Bostanli Creek ", 2005, PP: 485-493. Gumuldur.
- **Daneshfaraz, R.,** and Aklık, P.,"New Material in Coastal Areas: Geosynthetics ", 5. Ulsal Kıyı Mühendisliği Sempozyumu 5-7 Aralık 2005, Bodrum.
- Majedi Asl and **Daneshfaraz, R.,**"Study On Hydraulic Parameters Of Steady Flow Of River In Terms On Building Water Structures". Proceedings of the 3rd International Conference on Seismic Retrofitting, Tabriz, Iran, 20-22 October 2010.
- Karimi, Mosavi, Feiziasl and **Daneshfaraz ,**"The Effect Rye Green Manure Application With Nitrogen Fertilizer On Soil Aggregate Stability Tability And Water Infiltration Rate In Maragheh Dry Land Condition", *INTERNATIONAL SOIL SCIENCE CONGRESS ON*,. May 26-28, 2010, Samsun.
- Mosavi, Jafarzadeh, Neishabouri, Feiziasl, Karimi, Mahdavinia and **Daneshfaraz ,** " The Effect Rye Green Manure Application With Nitrogen Fertilizer On Soil Available Water

Capacity In Maragheh Dry Land Condition ", *INTERNATIONAL SOIL SCIENCE CONGRESS ON*,. May 26-28,2010,Samsun.

- Majedi Asl,M., Yasi, M. and **Daneshfaraz, R.** " Comparison of The Simulation Results of Steady Flow Characteristics Between 1D Model (Hec-Ras) and 2D Model (Fast-2D) in the Nazloo River Reach", River Corridor Restoration Conference , 13-18 March, 2011, Asocona. Switzerland.
- Jahanpeyma , Delavar, **Daneshfaraz** and Majedi asl "The Use Of Monte Carlo Method For Evaluation Of Uncertainty Propagation In Assessment Of Tehran Seismic Vulnerability", 6th International Conference On Seismology and Earthquake Engineering.16 May.,2011. Tehran, Iran.
- **Daneshfaraz,R.,** Keshavarzi, A., Sayadzadeh, F and Menazadeh, M., "FLOOD ZONING OF V-SECTIONS IN GIS USING HEC-RAS HYDRAULIC MODEL (CASE STUDY: GHALE CHAY RIVER)",7th International Symposium on Civil and Environmental Engineering, 29-30 Nov 2012, European University of Lefke, Turkish Republic of Northern Cyprus.
- **Daneshfaraz, R.,** Sadeghfam, S., Patakci, A., and Zayni, F., (2011). "Flood Determination and Control of Flood Risk in the Mehraneh River Basin," The 3rd National Conference on Irrigation Drainage Network Management, Shahid Chamran University, Ahwaz, Iran (in Persian).
- Valizadeh Moghadam, S., Hasanzadeh, Y. and **Daneshfaraz, R.,** "Comparison of the Sensitivity Analysis of Manning (n) Coefficient of HEC-RAS and MIKE11 Models (Case study : Qarasu River)", International Conference on Civil Engineering Architecture & Urban Sustainable Development , December 18-19, 2013.
- Eghbal, B. , **Daneshfaraz, R.** and Badalzadeh, M. " Investigating of Variation of Geometrical Parameters in Rubber Dams Due to Changes of Internal Pressures", 11 International Congress on Advances in Civil Eng. (ACE2014), 21-25 October 2014, Istanbul, Turkey.
- Shokri Jahandizi, R. and **Daneshfaraz, R.,** 2016, " A nonstandard finite difference scheme for the St. Venant equations", The 6th Seminar on Numerical Analysis and Its Applications, Maragheh, Iran.

➢ *Master and Doctorate Thesis Supervision:*

No	Full Name of Student	Level	Title of Thesis
1			
2			
3			
4			
5			
6			
	Reza Sadeghi	M.Sc.	Simulation Dissipation of Energy on Stepped Spillways of Siyahbishe Dam by Flow3D
	Nader Zogi	M.Sc.	The Assessment of the Probability of Development of Cavitations at the Stairy From Overflow of the Siyahbishe Dam Using Flow3D
	Ali Keshavarzi	M.Sc.	Flood Plain Determination using Hec-Ras and Arc-GIS
	Reza Dehghan	M.Sc.	Evaluation of Manning Roughness Coefficient on Hydraulic Flow Behavior in Zonooz River by Hec-Ras
	Razmyar Radmehr	M.Sc.	Comparison of AFT-IMPLUS , HAMMER and HYTRAN models for Computing Water Hammer Dashte Abbas Project as a Case Study
	Yahya Alipur	M.Sc.	3-D Investigation of Velocity Profile and Pressure Distribution in Bends with Different Diversion Angle

➢ *Master and Doctorate Thesis Advisor:*

No	Full Name of Student	Level	Title of Thesis
1	Sina Sadeghfam	M.Sc.	Experimental Investigation of Screens as Energy Dissipator
2	Mahdi Madani Zadegan	M.Sc.	Mathematical Analysis of Hydraulic Condition Change and the Angular Position of T- Shaped Spur Dikes Series on Velocity Distribution in 180 Degree

References

1- Kaya Birol, Prof. Dr., Department of Civil Engineering, Dokuz Eylül University, İzmir, Turkey, email: birol.kaya@deu.edu.tr

2- Alkan Ahmet, Ass. Prof, Department of Civil Engineering, Dokuz Eylül University, İzmir, Turkey, email: ahmet.alkan@deu.edu.tr
3- Güney Şükrü, Prof. Dr. , Department of Civil Engineering, Dokuz Eylül University, İzmir, Turkey, email: sukru.guney@deu.edu.tr
4- Kambiz Ramyar, Prof. Dr., Department of Civil Engineering, Ege University, İzmir, Turkey, email: kambiz.ramyar@ege.edu.tr
5- Selim Altun, Prof. Dr., Department of Civil Engineering, Ege University, İzmir, Turkey, email: selim.altun@ege.edu.tr