Faculty Members Website
University of Tabriz



# Yousef Hassanzadeh

Professor

College: Civil Engineering

## Education

| Degree | Graduated in | Major | University |
|---|---|---|---|
| BSc | 1971 | Hydraulics | University of Tabriz |
| Specialized Courses | 1975 | Fluid Mechanic, Hydraulics | Polytechnique de Toulouse (ENSEEIHT), INP |
| MSc | 1976 | Fluid Mechanic, Hydraulics | Paris VI University |
| Ph.D | 1978 | Fluid Mechanics, Hydraulics | Paris VI University |
| Specialized Courses | 1989 | Fluid Mechanics, Hydrodynamics | Ecole Polytechnic de Montreal |
| Specialized Courses | 1998 | Fluid Mechanics, Hydrodynamics | Cardiff School of Engineering, University of Wales |

## Employment Information

| Faculty/Department | Position/Rank | Employment Type | Cooperation Type | Grade |
|---|---|---|---|---|
| University of Tabriz | Prof. Department of Civil Engineering, University of Tabriz | Certain | Full Time | 45 |

## Subjects Taught

| activity_title | activity_desc | startedAt | endedAt |
|---|---|---|---|
| | Fluid Mechanics (1 and 2)<br>Hydraulics<br>Hydaraulic Machines<br>Sediment Transport<br>Advanced Hydraulics<br>Hydrodynamics<br>Advanced Hydrodynamics<br>Open Channel Flow<br>Advanced Fluid Mechanics<br>Enginnerng and Management of Flood Control and Dambreak | 02 June 2025 | 02 June 2025 |

## Course Topics

| activity_title | activity_desc | startedAt | endedAt |
|---|---|---|---|
| | Fluid Mechanics (1 and 2)<br>Hydraulics<br>Hydaraulic Machines<br>Sediment Transport<br>Advanced Hydraulics<br>Hydrodynamics<br>Advanced Hudrodynamics<br>Open Channel Flow<br>Advanced Fluid Mechanics<br>Enginnerng and Management of Flood Control and Dambreak | 01 January 1979 | 28 June 2025 |

## Competitions

| activity_title | activity_desc | startedAt | endedAt |
|---|---|---|---|
| Distinguished Professor of Iran, Ministry of Science, Research and Technology, 1999 | | 01 May 2008 | 01 April 2009 |
| Distinguished Professor of Iran, University of Tabriz, 2008 | | 01 May 2008 | 01 May 2009 |
| Distinguished Water Engineering Scientist, 2nd Iranian Water Engineering Festival (IWEF), | | 01 October 2008 | 04 October 2008 |
| Distinguished Hydraulic Scientist, Iranian Hydraulic Association (IHA), 2006 | | 01 May 2006 | 04 May 2006 |

## Papers in Conferences

1. Hassanzadeh, Y.,Heydari, N.,Bageri Basmenji,A ,Trend of Maximum Discharge for Effective Parameters of Outflow Hydrograph Due to Piping ,Modern Research in Civil Engineering, Architectural and Urban Development ,Istanbul, Turkey ,2016.
2. Jahandar,M., Kalateh, F., Hassanzadeh,Y ,Gradually varied flow computation in channel networks ,10th International Congress on Civil Engineering ,UnUniversity of Tabriziversity of Tabriz ,2015.
3. Aghakhani, A., Hassanzadeh,Y ,A comparison of WEEP and SWAT for modeling soil erosion of Torogh watershed in Khorasan Razavi piovince ,10th International Congress on Civil Engineering ,University of Tabriz ,2015.
4. Moradi, M., Vosoughifar, H., Hassanzadeh,Y., ,Optimal placement of smart sensors in the underground storage tanks regarding to the cavitation effect by Monte Carlo analysis ,2nd International Congress on Structure, Architecture & Urban Development ,Tabriz Islamic Art University ,2014.
5. Hassanzadeh, Y., Farzin,S., Alizadeh, M ,Numerical Simulation of Unsteady One- Dimensional Dam-Break Flows Using MacCormack Schem ,7th National Congress on Civil Engineering ,Zahedan ,2013.
6. Abdi, A., Hassanzadeh, Y ,Assessing the Drought Modeling Using Genetic Algorithm in Tabriz City, Iran ,10th International Conference on Hydroinformatics, HIC 2012 ,Hamburg, Germany ,2012.
7. Imanshoar, F.,Tabatabai, M.R.M., Hassanzadeh, Y., Rostamipour ,Experimental Study of Subsurface Erosion in River Banks ,World Academy of Science, Engineering and Technology ,Dubai ,2012.
8. Yousefi,P., Hassanzadeh, Y., Ghorbani, M.A ,Disaggregation of River Sediment Load Using a Nonlinear Deterministic Method ,International Conference on Sediment transport modeling in hydrological watersheds and rivers ,ITU, Istanbu ,2012.
9. ,& Hassanzadeh, Y., Rahmani,M.A., Yousefi,P ,Wavelet Decomposition and De-Noising in Predicting Suspended Sediment Load ,International Conference on Sediment transport modeling in hydrological watersheds and rivers ,ITU, Istanbul ,2012.
10. Hassanzadeh,Y., Hakimzadeh, H., Kardan, N., Ayyari,S ,Comparing the Flow Pattern Around the Oval Shape Pier with and without Slot using Fluent Software ,9th International congress on Civil Engineerin ,Isfahan University of Technology ,2012.
11. Imanshoar, F., Hassanzadeh, Y., and Tabatabai,M.,M ,Analysis of Trophic State Uncertainty and its Variation: Miyun Reservoir, Beijing, China ,The First International & Third National Conference on Dams & Hydropower ,Tehran ,2012.
12. Hassanzadeh, Y., Ghorbani, M. A., Yousefi, P., Asadi, H. and Singh, A ,Prediction of Reservoir Volume by Using Chao Theory and Genetic Programmin ,The First International & Third National Conference on Dams & Hydropower ,Tehran ,2012.
13. Zarghami, M., Hassanzadeh, E., and Hassanzadeh, Y ,System Dynamics Modeling for the Urmia Saline Lake Management ,EURO 24 ,Lisbon ,2010.
14. ,& Zarghami, M., Hassanzadeh, Y., Babaeian, I., Kanani, R ,Climate change and water resources vulnerability; Case study of Tabriz city ,SENSE Symposium on climate proofing cities ,Amsterdam, Volendam ,2009.
15. Hassanzadeh, Y., Nourani, V., and Abdi, A ,Genetic Algorithm and Its Application in Statistical Analysis of Flood Flows ,2nd International Conference on water Economics, Statistics, and Finance, International Water Association (IWA), Alexandroupolis ,Thrace – Greece ,2009.
16. Hassanzadeh, Y., Abdi, A., and Abdi, A ,A Comparision of Methods used for the Estimation Statistical distribution parameter (Case Study : The Rivers of East Azarbijan, Iran ) ,), 5th International Engineering and Construction Conference (IECC'5), American Society of Civil Engineers ,Los angeles, USA ,2008.
17. .Hassanzadeh, Y ,Predicting the pattern of sedimentation in a Storage Reservoir ,1st International Conference on Managing Rivers in the 21st Century ,Penang, Malaysia ,2004.
18. Hassanzadeh, Y ,Pr□vision des P□riodes de S□cheresse ,Hydrotop 2003 ,Marseille, France ,2003.
19. Hassanzadeh, Y ,Influence du lac sal□e d'Urmyeh sur les eaux souterraines" , ,Hydrotop 2001

,Marseille, France ,2001.
20. .Hassanzadeh, Y ,A New Approach to Formulate and Verify a Sediment Discharge ,Fourth International Conference on Hydrodynamics ,Yokohama, Japan ,2000.
21. .Hassanzadeh, Y ,Control des crues dans des r□gions arides et semi-arides" . ,Hydrotop 96, Marseille, France ,1996.
22. .Hassanzadeh, Y ,The Environmental impacts of Rising level of Caspian Sea ,Third Baku International Congress on Energy, Ecology, Economy ,Baku, Azerbaijan Republic ,1995.
23. .Hassanzadeh, Y ,Optimisation des Ressources Hydrauliques ,Hydrotop´ 94 ,Marseille, France ,1994.
24. .Hassanzadeh, Y ,Rapidly varied unsteady flow study in a small-Scale model ,International Conference on Hydrodynamic ,Wuxi, China ,1994.
25. .Hassanzadeh, Y ,Environmental effect of Reservoir Sedimentation ,Second Baku International Symposium ,Baku ,1993.
26. .Hassanzadeh, Y ,Dam-break wave in an open channel", Wuhan, China ,International Symposium on Hydraulic Research in Nature and Laboratory ,Wuhan ,1992.
27. Hassanzadeh, Y ,Study of the logarithmic law of the velocity distribution in two phases flow ,sixteenth congress on large dams, San Francisco, U. S. A. ,1988.
28. Hassanzadeh, Y ,Crit□re de d□but d'entra□nement des mat□riaux constitutifs du lit d'un cours d'eau ,VIth IWRA World Congres, Ottawa., Canada ,1988.
29. Hassanzadeh, Y ,The problem of sediment transport in rivers ,IWRA Seminar, Rome, Italy ,1987.
30. Hassanzadeh, Y ,Hydrodynamics of Two-Phase flow", fifteenthcongress on large dams ,ICOLD, Lausanne, Suisse ,1985.
31. Hassanzadeh, Y ,Utilisation combin□e des eaux souterrains et des eaux de surface ,5th IWRA Congres on Water Ressources, Bruxelles Belgique ,1985.

## Papers in Journals

1. ,& Ali Ehsanitabar, Yousef Hassanzadeh, Mohammadtaghi Aalami, Sina Sadeghfam,Agent-based modeling for demand management of reservoirs considering social and hydrological interactions under uncertainty,Journal of Environmental Management,2025.
2. Yousef Hassanzadeh , Hamidreza Abbaszadeh , Ali Abedi,The Effect of Downstream Material Grading on Scouring-Sediment Profile of Combined Spillway-Gate,AQUA - Water Infrastructure, Ecosystems and Society,2024.
3. تبریزچی خیاوی، مهدی، حسن زاده، یوسف، اعلمی، محمد تقی و عباس زاده، حمید رضا،بررسی پارامترهای جریان عبوری در سرریز شوت با استفاده از نرم‌افزار FLOW-3D،1403،تحقیقات آب و خاک ایران.
4. S Sadeghfam, Y Hassanzadeh, M Moazamnia,,Velocity Distribution in the 90-degree Bend based on the Probability and Entropy Concept,Journal of Water Sciences Research,2015.
5. Abdi, A., Hassanzadeh, Y., Talatahari, S., Fakheri و Fard, A. and Mirabbasi, R,Regional bivariate modeling of droughts using L-comoments and copulas,Stochastic Environmental Research and Risk Assessment,2016.
6. Kardan, N., Hassanzadeh, Y., and Shakooei Bonab,B،Shape optimization trapezoidal labyrinth weirs using genetic algorithm،Arabian Journal of Geosciences،2017.
7. یوسف حسن زاده، حمیدرضا عباس زاده، مهدی تبریزچی,Hydrodynamic behavior and cavitation-prone regions in spillways under varying discharge conditions,innovative infrastructure solutions,2026/9/19.
8. Edris Marufinia, Ahmad Sharafati, Hirad Abghari, Youssef Hassanzadeh,On the simulation of streamlow using hybrid tree-based machine learning models: a case study of Kurkursar basin, Iran,Arabian Journal of Geosciences,2023.
9. Yousef Hassanzadeh and Hamidreza Abbaszadeh,Investigating Discharge Coefficient of Slide Gate-Sill Combination Using Expert Soft Computing Models,Journal of Hydraulic Structures,2023.
10. Ali MOASAMI, Bahador FATEHI ,& NOBARIAN, Yousef HASSANZADEH,NUMERICAL STUDY ON THE EFFECT OF WATER WAVES AND DEPTHS ON INCLINED BRACES WITH RESPECT TO THE STABILITY

OF VLFS PLATFORMS IN THE CASPIAN SEA,Slovak Journal of Civil Engineering,2022.
11. Aida Hosseini Baghanam, Arshia Jedary Seifi, Ali Sheikhbabaei , Yousef Hassanzadeh, Mohsen Besharat and Esmaeil Asadi,Policy-Making toward Integrated Water Resources Management of Zarrine River Basin via System Dynamics Approach under Climate Change Impact,Sustainability,2022.
12. Rasoul Nematzadeh & Yousef Hassanzadeh,A novel method to plan short-term operation rule for gated-spillways during flood,Arabian Journal of Geosciences,2021.
13. Marjan Moazamnia, Yousef Hassanzadeh, Sina Sadeghfam & Ata Allah Nadiri,Formulating GA-SOM as a Multivariate Clustering Tool for Managing Heterogeneity of Aquifers in Prediction of Groundwater Level Fluctuation by SVM Model,Iranian Journal of Science and Technology, Transactions of Civil Engineering,2021.
14. Amirhosein Aghakhani Afshar and Yousef Hassanzadeh,A hydrological toolkit to delineate patterns of blue and green water in a regional semi-arid climate in Iran via CMIP5 models,Quarterly Journal of the Hungarian Meteorological Service,2021.
15. Kouzehgar, K., Hassanzadeh, Y., Eslamian, S., Fard, M. Y., & Amini, A. B,Experimental investigations and soft computations for predicting the erosion mechanisms and peak outflow discharge caused by embankment dam breach,Arabian Journal of Geosciences,2021.
16. Kouzehgar, K., Hassanzadeh, Y., Eslamian, S., Fard, M. Y., & Amini, A. B.,Physical modeling into outflow hydrographs and breach characteristics of homogeneous earthfill dams failure due to overtopping,Journal of Mountain Science,2021.
17. Yousef Hassanzadeh, Mohammadvaghef Ghazvinian*, Amin Abdi, Saman Baharvand, Ali Jozaghi,Prediction of short and long-term droughts using artificial neural networks and hydro-meteorological variables,arxiv.org,2021.
18. Yousef Hassanzadeh, Milad Khosravi, and Nazila Kardan,Numerical investigation on the effect of bluntness factor on scouring mechanism by using lenticular geometry piers,Can. J. Civ. Eng.,2020.
19. Marjan Moazamnia, Yousef Hassanzadeh, Ata Allah Nadiri, Sina Sadeghfam,Vulnerability Indexing to Saltwater Intrusion from Models at Two Levels using Artificial Intelligence Multiple Model (AIMM),Journal of Environmental Management,2020.
20. Hassanzadeh, Y., Marofi, S., Vahabian, M,A Three Dimensional Modeling of contaminant transport in sub-surface soil media using UFV approach,International Journal of Geomechanics,2020.
21. Saeed Farzin, Rouhollah Fatehi, Yousef Hassanzadeh,Position explicit and iterative implicit consistent incompressible SPH methods for free surface flow,Computers and Fluids,2019.
22. Mehdi Vahabian & Yousef Hassanzadeh & Safar Marofi,Assessment of landfill leachate in semi-arid climate and its impact on the groundwater quality case study: Hamedan, Iran,Environ Monit Assess,2019.
23. Mohammad Kazem Sharifian, Yousef Hassanzadeh, Georges Kesserwani, James Shaw,Performance study of the multiwavelet discontinuous Galerkin approach for solving the Green-Naghdi equations,International Journal for Numerical Methods in Fluids,2019.
24. Bahador Fatehi ,& Nobarian, Hooman Hajikandi, Yousef Hassanzadeh, Saeed Jamali,Experimental and analytical investigation of secondary current cells effects on hydraulic jump characteristics in trapezoidal channels,Journal Tecnolog□a y ciencias del agua,2019.
25. M Moazamnia, Y Hassanzadeh, AA Nadiri, R Khatibi, S Sadeghfam,Formulating a strategy to combine artificial intelligence models using Bayesian model averaging to study a distressed aquifer with sparse data availability,journal of hydrology,2019.
26. S Sadeghfam, Y Hassanzadeh, R Khatibi, AA Nadiri, M Moazamnia,Groundwater Remediation through Pump-Treat-Inject Technology Using Optimum Control by Artificial Intelligence (OCAI),Water Resources Management,2019.
27. Saeed Khoshtinat1, Babak Aminnejad, Yousef Hassanzadeh and Hasan Ahmadi,Groundwater potential assessment of the Sero plain using bivariate models of the frequency ratio, Shannon entropy and evidential belief function,J. Earth Syst. Sci,2019.
28. Saeed Khoshtinat, Babak Aminnejad, Yousef Hassanzadeh and Hasan Ahmadi,Application of GIS-

based models of weights of evidence, weighting factor, and statistical index in spatial modeling of groundwater,Journal of Hydroinformatics,2019.
29. Nazak Rouzegari Yousef Hassanzadeh Mohammad Taghi Sattari,Using the Hybrid Simulated Annealing-M5 Tree Algorithms to Extract the If-Then Operation Rules in a Single Reservoir,Water Resources Management,2019.
30. Yousef Hassanzadeh, Amin Jafari , Bavil , Olyaei*, Mohammad Taghi , Aalami1, Nazila Kardan,Meta-heuristic Optimization Algorithms for Predicting the Scouring Depth Around Bridge Piers,Periodica Polytechnica Civil Engineering,2019.
31. Mohammad Kazem Sharifiana, Georges Kesserwani, Yousef Hassanzadeh,A discontinuous Galerkin approach for conservative modeling of fully nonlinear and weakly dispersive wave transformations,Ocean Modelling,2018.
32. Sina Sadeghfama, Yousef Hassanzadeh, Rahman Khatibi, Marjan Moazamnia, 39 ,& Ata Allah Nadiri,Introducing a risk aggregation rationale for mapping risks to aquifers frompoint- and diffuse-sources–proof-of-concept using contamination data from industrial lagoons,Environmental Impact Assessment Review,2018.
33. Hassanzadeh Y, Afshar AA, Pourreza ,& Bilondi M, Memarian H, Besalatpour AA,Toward a combined Bayesian frameworks to quantify parameter uncertainty in a large mountainous catchment with high spatial variability,Environ Monit Assess,2018.
34. Yousef Hassanzadeh, Amin Jafari Bavil Olyaei, Mohammad Taghi Aalami, Nazila Kardan,Experimental and numerical investigation of bridge pier scour estimation using ANFIS and teaching–learning-based optimization methods,Engineering with Computers,2018.
35. Kardan, N., Hakimzadeh, H., Hassanzadeh, Y,Investigation of the Dynamics Bed Shear Stress Distribution around a Circular Cylinder Using various Turbulence Models,Engineering Journal,2017.
36. Kardan, N., Hassanzadeh, Y., Hakimzadeh, H,The Effect of Combined Countermeasures on Main Local Scouring Parameters Using Physical Models,Arabian Journal of Geosciences,2017.
37. Aghakhani Afshar, A., Hassanzadeh, Y., Pourreza ,& Bilondi, M., Ahmadi, A,Analyzing long-term spatial variability of blue and green water footprints in a semi-arid mountainous basin with MIROC-ESM model (case study: Kashafrood River Basin, Iran),Theoretical and Applied Climatology,2017.
38. Sadeghfam, S., Khatibi, R., Hassanzadeh,Y., Daneshfaraz, R., Ghorbani,M.A,Forced Hydraulic Jumps Described by Classic hydraulic Equations Reproducing Cusp Catastrophe Features,Arabian Journal for Science and Engineering,2017.
39. A. Aghakhani Afshar Y. Hassanzadeh,Determination of monthly hydrological erosion severity and runoff in Torogh dam watershed basin using SWAT and WEPP models,Iran J Sci Tech Trans Civ Eng,2017.
40. Amin Abdi, Yousef Hassanzadeh, Taha B.M.J. Ouarda,Regional frequency analysis using Growing Neural Gas network,Journal of Hydrology,2017.
41. Abdi, A., Hassanzadeh, Y., Talatahari, S., Fakheri ,& Fard, A. and Mirabbasi, R,Regional drought frequency analysis using L-moments and adjusted charged system search,Journal of Hydroinformatics,2016.
42. Aghakhakhani Afshar, A.H., Hasanzadeh, Y., Besalatpour, A.A. and Pourreza ,& Bilondi,Climate change forecasting in a mountainous data scarce watershed using CMIP5 models under representative concentration pathways,Theoretical and Applied Climatology,2016.
43. Sadeghfam, S., Hassanzadeh, Y., Nadiri, A.A. and Zarghami, M,Localization of Groundwater Vulnerability Assessment Using Catastrophe Theory,Water Resources Management,2016.
44. Sadeghfam, S., Hassanzadeh, Y., Nadiri, A.A. and Khatibi, R,Mapping groundwater potential field using catastrophe fuzzy membership functions and Jenks optimization method: a case study of Maragheh-Bonab plain, Iran,Environmental Earth Sciences,2016.
45. Abdi, A., Hassanzadeh, Y., Talatahari, S., Fakheri ,& Fard, A. and Mirabbasi, R,Parameter estimation of copula functions using an optimization-based method,Theoretical and Applied Climatology,2016.
46. Mohammad Amin Kalantari, Elham Mina and Yousef Hassanzadeh,Numerical Evaluation of

Seepage Monitoring in Embankment Dams Utilizing Temperature Method,International Journal of Advanced Biotechnology and Research(IJBR),2016.
47. Asadi, E., Dalir, AH., Farsadizadeh, D., Hassanzadeh, Y., Salmasi, F,Energy Dissipation of Skimming Flow with Different Sill Dimensions in Stepped Spillway Model,International Journal of Agriculture and Bioscience,2015.
48. Seyyedpour, S.H., Hassanzadeh,Y., Farsadizadeh,D., Alavi,SM.Y,Numerical Simulation of Unsteady Flow due to Dam Break,. International Journal of Mechanical and Production Engineering,2015.
49. Mohammadpour, O., Hassanzadeh, Y., Khodadadi, A. and Saghafian,Selecting the best flood flow frequency model using multi-criteria group decision-making,Water resources management,2014.
50. Moharrami, A., Hassanzadeh,Y., Salmasi,F., Moradi, G., and Moharrami, G.R,Performance of the horizontal drains in upstream shell of earth dams on the upstream slope drawdown conditions,Arabian Journal of Geosciences, Springer,2013.
51. Moharrami, A., Hassanzadeh,Y., Salmasi,F., Moradi, G., and Moharrami, G.R,Performance of the horizontal drains in upstream shell of earth dams on the upstream slope drawdown conditions,Arabian Journal of Geosciences,2013.
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53. Mojtahedi, A., Yaghin, M.L., Ettefagh, M.M., Hassanzadeh, Y. and Fujikubo, M,Detection of nonlinearity effects in structural integrity monitoring methods for offshore jacket-type structures based on principal component analysis,Marine Structures,2013.
54. Imanshoar, F., Tabatabai, MR., Hassanzadeh, Y., Rostamipour,Experimental Study of Subsurface Erosion in River Banks,World Academy of Science, Engineering and Technology,2012.
55. Farzin, S., Ifaei, P., Farzin, N., Hassanzadeh, Y., Aalami, M.T,An Investigation on Changes and Prediction of Urmia Lake Water Surface Evaporation by Chaos Theory,Int. J. Environ. Res,2012.
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57. Elmira Hassanzadeh, Mahdi Zarghami, Yousef Hassanzadeh,Determining the Main Factors in Declining the Urmia Lake Level by Using System Dynamics Modeling,Water Resources Management,2012.
58. Elmira Hassanzadeh, Mahdi Zarghami, Yousef Hassanzadeh,Determining the Main Factors in Declining the Urmia Lake Level by Using System Dynamics Modeling,Water Resources Management,2012.
59. A. Mojtahedi, M.A. Lotfollahi yaghin, Y. Hassanzadeh, M.M. Ettefagh, M.H.Aminfar,A robust damage detection method Developed for offshore jacket platforms using modified artificial immune system algorithm,China Ocean Engineering,2012.
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63. Roushangar, K., Hassanzadeh, Y., Keynejad, M., A., Alami, M., T., Nourani, V,Studying of flow model and bed load transport in a coarse bed river: case study – Aland River, Iran,Journal of Hydroinformatics,2011.
64. Hassanzadeh,Y., Abdi, A., Talatahari, S. and Singh V. P,Meta- Heuristic Algorithms for Hydrologic Frequency Analysis,Hassanzadeh,Y., Abdi, A., Talatahari, S. and Singh V. P,2011.
65. A. Mojtahedi, M.A. Lotfollahi yaghin, Y. Hassanzadeh, M.M. Ettefagh,Developing a robust SHM method for offshore jacket platform using model updating and fuzzy logic system,Applied Ocean

Research,2011.
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