



CV of Tayeb Sadeghifar

Teacher of Physics, x, Kurdistan Province, Iran

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Personal Information

First Name: Tayeb

Last Name: Sadeghifar

Date of birth: 21th of March, 1981

Country: Iran

Gender: Male

Research Interests

- Sediment transport rate
- Artificial Neural Networks modelling
- ANFIS modelling
- Numerical simulation
- Current Ocean
- Meteorology

Education

- 2010-2013; M.Sc.: Physical Oceanography and Meteorology
[School of marine sciences, Tarbiat Modares University, Tehran, Iran.](#)
M.Sc. Thesis: Prediction of Alongshore Sediment Transport Rate Using Semi-Empirical and Application of Artificial Neural Networks (ANNs)

GPA: 16.68 out of 20
- 2003-2008; B.Sc.: Applied Mathematics
[PAYAM NOOR University, Saqqez Branch, Iran.](#)
GPA: 14.01 out of 20

Membership of Scientific Societies

- Iranian Coastal and Marine Engineering Society
- Young Researchers Club and Elites, Islamic Azad University of Saqqez
- Reviewer of the International Journal of Science and Technology of Iran
- Reviewer of the Journal of Hydro-physics
- Reviewer the Royal Institution of Naval Architects (RINA)
- Reviewer of the Journal ocean engineering
- Reviewer of the Journal Expert Systems with Applications
- Reviewer of the Journal Scientific Reports
- Reviewer of the Journal Applied Ocean Research

Skills

- Programming literacy
 - Proficient with MATLAB knowledge
 - ANN
 - ANFIS
- Computer literacy
 - Professional knowledge of MS Office package
 - Familiar with Statistics and Mathematics package
- Time management
- Team work
- Research skills

Developed Codes:

- Two-dimensional flow simulation model in a vertical plane.
- One-dimensional flow simulation model using finite difference and finite volume schemes.
- Turbulent models such as Large Eddy Simulation.
- Data mining approaches such as GP.
- Predicting ANN and ANFIS model for sediment transport rate in ocean and sea.

Workshops:

- ELNINO technical workshop, (2015)

Research Projects

- Project of leakage and control of physical losses in Kurdistan-Kermanshah and Ilam provinces (2016)
- Investigating the Effects of Dust Occurrence on Human Health in Kermanshah Province (2017)

International Journal Papers

- Azad MT., Lari K., Emtiazjoo M., and Sadeghifar. T (2023). Field Study of Currents in Noshahr Coast of the South Caspian Sea, Journal of Current Engineering and Technology. V(5) I(3). <https://doi.org/10.36266/JCET/175>
- Mostafa. R.R., Kisi. O., Adnan. R.M., Sadeghifar. T and Kuriqi. A., 2023. Modeling Potential Evapotranspiration by Improved Machine Learning Methods Using Limited Climatic Data. Water. 15, 486. <https://doi.org/10.3390/w15030486>
- Sadeghifar, T.; Lama, G.F.C.; Sihag, P.; Bayram, A.; Kisi, O. 2020. Wave height predictions in complex sea flows through soft computing models: Case study of Persian Gulf. Ocean Eng., 245, 110467.
- Lama, G.F.C.; Sadeghifar, T.; Azad, M.T.; Sihag, P.; Kisi, O. 2022. On the Indirect Estimation of Wind Wave Heights over the Southern Coasts of Caspian Sea: A Comparative Analysis. Water, 14, 843.
- Barati. R. Maghrebi. M., Sadeghifar. T. and Mirani Moghadam. H., 2022. Discussion of ‘evaluation of one-dimensional and two-dimensional HEC-RAS models to predict flood travel time and inundation area for flood warning system’ISH JOURNAL OF HYDRAULIC ENGINEERING.

- Torabi Azad. M, Lari. K, Oudi. R, Sadeghifar. T., and Kisi. O. 2022. The Effect of Dust Storm on Sea Surface Temperature in the Western Basin of Persian Gulf. Standards Journal.
- Sihag. P., Puri. D., Sadeghifar. T. Dursun. O.F., Chauhan. A., and Kumar. B., 2022., Soft computing based model development for estimating the aeration efficiency through Parshall flume and Venturi flumes.
- T.Sadeghifar, R.Barati, 2018. "Application of Adaptive Neuro-Fuzzy Inference System to Estimate Alongshore Sediment Transport Rate (A Real Case Study: Southern Shorelines of Caspian Sea)", Journal of Soft Computing in Civil Engineering 2-4: 72-85.
- T. Sadeghifar, M. Nouri Motlagh, M. Torabi Azad, M. Mohammad Mahdizadeh, 2017. "Coastal Wave Height Prediction using Recurrent Neural Networks (RNNs) in the South Caspian Sea". Marine Geodesy; 40:454–65. doi:10.1080/01490419.2017.1359220.
- R.Barati , M.Badfar, T.sadeghifar, 2020, "Discussion of '3-D Numerical simulation of water flow over a broad-crested weir with openings by Daneshfaraz et al. (2019)". ISH Journal of Hydraulic Engineering; 1-8; doi: 10.1080/09710.2019.1581098.

National Journal Papers

- T.Sadeghifar, 2017." Alongshore Sediment Transport Rate Estimation by an Artificial Neural Network (ANN) Model", journal of hydrophysics 2: 91-107
- T. Sadeghifar, S.A.Azarmsa, 2016, "Analysis of Sediment Grain Size Distribution and Texture in the South Part of the Caspian Sea (A Case Study; Noor Coastal Zone)", Iranian Journal of Marine Science and Technology, 73: 23-36.
- T.Sadeghifar, S.A.Azarmsa, 2014, "Estimated Alongshore Sediment Transport Rates Using Soft Computing (SF) Models". International Journal of Maritime Technology; 9:59-66–86.
- T. Sadeghifar, S.A. Azarmsa, M.Vafakhah, 2013. "Prediction of Alongshore Sediment Transport Rate Using Semi-Empirical Formulas and an Artificial Neural Networks (ANNs) model in Noor Coastal zone". International Journal of Maritime Technology; 9:77–86.

International Conferences Papers

- T. Sadeghifar, A.R. Zarifsanayei, R. Barat, 2018, Estimation of alongshore sediment transport rate, a comparison between semi- empirical formulas and ANN model. International Conference on Coasts, Ports and Marine Structures, Tehran, Iran.

National Conferences Papers

- M. Torabi Azad, P. Ebrahimi, T.Sadeghifar, 2014. "Dimensional analysis of bed slope changes in the Strait of Hormuz Water Exchange". 15th Marine Industry Congress, Bandar Abbas ,Iran
- T.Sadeghifar, S.A.Azarmsa, 2013. "Assessment of Semi-Empirical Formulas in Prediction of Sediment Transport Rate" 14th Marine Industry Congress, Kish Island ,Iran

Book Chapter

- T. Sadeghifar, R Barati, 2018. "Prediction of Longshore Sediment Transport Rate using Soft Computing Techniques and Comparison with Semi-Empirical Formulas" International Energy and Environment Foundation, Progress in River Engineering & Hydraulic Structures, Chapter Eight, 151-174.

Teaching Experience

Spring 2018	Mechanics Physics - Saghez University of Technology
Spring 2018	Electrical Physics and Magnetism - Saghez University of Technology
Spring 2017	Mechanics Physics - Saghez University of Technology
Spring 2017	Electrical Physics and Magnetism - Saghez University of Technology
Spring 2016	Mechanics Physics - Saghez University of Technology
Spring 2016	Electrical Physics and Magnetism - Saghez University of Technology
Spring 2015	Mechanics Physics - Saghez University of Technology
Spring 2015	Electrical Physics and Magnetism - Saghez University of Technology
Spring 2015	Mechanics Physics - Saghez Islamic Azad University
Spring 2015	Electrical Physics and Magnetism - Saghez Islamic Azad University
Spring 2014	Mechanics Physics - Saghez University of Technology
Spring 2014	Electrical Physics and Magnetism - Saghez University of Technology
Spring 2014	Mechanics Physics - Saghez Islamic Azad University
Spring 2014	Electrical Physics and Magnetism - Saghez Islamic Azad University

Language Skills

- Kurdish Native
- Persian Native
- English High

Homepages

1. https://www.researchgate.net/profile/Tayeb_Sadeghifar
2. https://modares.academia.edu/Tayeb_Sadeghifar
3. <https://scholar.google.com/citations?user=ew8BTF4AAAAJ&hl=en>
4. <https://www.linkedin.com/in/mohammad-tayeb-sadeghifar-20606178/>

References

- [Masoud Torabi Azad](#), Associate Professor, Department of physical oceanography, IAU, North Tehran Branch, Iran, M_azad@iau-tnb.ac.ir
- [Reza Barati](#), Advisor of Chairman and Head of Applied Research Group at Water Authority, Mashhad, Razavi Khorasan Province, IRAN. reza.barati@modares.ac.ir
- [Mahdi Mohammad Mahdizadeh](#) Assistant Professor of Science and technologies marines, Univesity of Hormozgan, mehdizadeh@hormozgan.ac.ir.
- [Ozgur Kisi](#), Civil Engineering Department, Ilia State University, Tbilisi, Georgia & Institute of Research and Development, Duy Tan University, Da Nang 550000, Vietnam , ozgur.kisi@iliauni.edu.ge.
- [Fateh Mebarek-Oudina](#) Department of Physics, Faculty of Sciences, University of 20 août 1955-Skikda, Skikda Algeria.). oudina2003@yahoo.fr
- [Oleg Makarynskyy](#). Met Ocean Dynamic Solutions, Australia (Email: oleg.makarynskyy@gmail.com).
- [Mohand Lagha](#). Aeronautical Sciences Laboratory, Aeronautical and Spatial Studies Institute, University Blida, Algeria.