



Dr. Vahid Chegini

Personal Summary

Vahid Chegini was born on April 31st, 1958 in Abadan, I. R. of Iran. He pursued his interest in Civil Engineering as an undergraduate and focused on Hydraulic Structures as a graduate student at the nation's academically elite universities in Tehran, I.R. of Iran. He then travelled to Sydney, Australia to study Coastal Engineering at Ph.D. level. His return to Iran and employment as a public servant in Soil Conservation & Watershed Management Research Center (SCWMRC) and then, Iranian National Institute for Oceanography & Atmospheric Science (INIOAS) has been accompanied by extensive travel across the country and around the world. He traveled frequently between the research stations of the Iranian National Institute for Oceanography situated in Tehran and along the coasts of the Persian Gulf, Gulf of Oman, and the Caspian Sea. The Iranian National Institute for Oceanography is the regional focal point of the International Ocean Institute (IOI) Operational Center, and the national focal points of the Intergovernmental Oceanographic Commission (IOC) and the Inter-Islamic Science and Technology Network on Oceanography (INOC). He was retired in 2015 and then was appointed as the head of the Scientific Committee of Fish Cage Culture in Iranian Fishery Organization. He is working as a lecturer and the President of South Tehran Branch of Islamic Azad University at the time being. His researches have been focused on numerical modeling of waves, sediment transportation, renewable ocean energies and ocean circulation, as well as, physical modeling of coastal structures, coastal classification and integrated coastal zone management.

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In the *international* arena, he was acting in the following capacities since June 2006 till March 2015:

- ◆ Representative of the I. R. of Iran and Head of the Delegation at the Intergovernmental Oceanographic Commission (IOC) Executive Council
- ◆ Vice-President for Asia at the Inter-Islamic Science and Technology Network on Oceanography (INOC)
- ◆ Director of the Operational Center of International Ocean Institute (IOI) in I. R. of Iran
- ◆ Iranian Representative at the Indian Ocean Tsunami Warning and Mitigation System (IOTWS) Working Group
- ◆ Representative of the Global Ocean Observing System (GOOS) focal point
- ◆ Coordinator for International Oceanographic Data and Information Management (IODE) Data Management in I. R. of Iran

At the *national* level, he has acted in the following capacities:

- ◆ Lecturer of the Khorramshahr Marine Science and Technology University (since June 2006 till now)
- ◆ Director of Iranian National Institute for Oceanography and Atmospheric Science (since June 2006 till March 2015)
- ◆ Director of the Iranian National Committee for Oceanography (since June 2006 till March 2015)
- ◆ Executive Secretary of the Iranian Network for Oceanographic Research and Technology (INORT) (2009 till March 2015).
- ◆ Member of the National Climate Change Committee of Department of Environment (2007 till March 2015).

- ◆ Deputy of the Committee for Higher Education Planning of the Marine Sciences and Technology Group of the Ministry of Science, Research and Technology (2012 till March 2015).
- ◆ Representative in the Board of Trustees of Soil Conservation and Watershed Management Research Institute (2008 till present).
- ◆ Representative of the Ministry of Science, Research and Technology in the Supreme Council for Marine Industries Working Group (2010 till March 2015).
- ◆ Head of Board of Director of Iranian Marine Sciences and Technology Association (2012 till August 2015).
- ◆ Secretary of Board of Trustees of Research District # 1 of Ministry of Science, Research, and Technology (2006 till March 2015).
- ◆ Member of the Technical Commission of Ports' Projects of Iranian Fisheries Organization (1996 till now)
- ◆ Member of the Committee for Caspian Sea *Mnemiopsis leidyi* (2006 till March 2015)
- ◆ Head of Joint Academic Board of Directors of International Institute of Earthquake Engineering and Seismology, Institute for Research in Fundamental Sciences, Institute for Aerospace, and Iranian National Center for Oceanography.
- ◆ Member of the National Council for Red Tide
- ◆ Deputy of the Committee for Culture and Education of the National Supreme Council for Oceanography
- ◆ Member of the Board of Directors of Iranian Association of Naval Architecture and Marine Engineering (2008 – 2010)
- ◆ Head of Board of Trustees of Iranian Classification Society (ICS) (2007-2009).
- ◆ Head of the Technical Committee of the Soil Conservation and Watershed Management Research Institute (2000-2001)
- ◆ Member of the Higher Council Committee of the Soil Conservation and Watershed Management Research Institute (1999-2001)
- ◆ Member of the Technical Committee of the Soil Conservation and Watershed Management Research Institute (1994-2001)

- ◆ Member of the Council for the Coordination of the Assembly of Directors of Marine Organizations (2006 till March 2015)
- ◆ Establishment of the Iranian National Center for Ocean Hazards (INCOH)
- ◆ Establishment of the Iranian National Center for Ocean Data (INCOD)
- ◆ Establishment of Research Stations of the Iranian National Institute for Oceanography in Noshahr, Chabahar, Bandar Abbas, and Bushehr.
- ◆ Head of Scientific Committee for Fish Cage Culture of Iranian Fishery Organization from April 2015 till now.
- ◆ President of the South Tehran Branch of Islamic Azad University from Feb. 2021 till now.

He was also the leadership of the following projects:

- ◆ UNESCO Category II Regional Oceanographic Center: Category II Regional Education and Research Center on Oceanography for Western Asia under the auspices of UNESCO
- ◆ PG-GOOS (Persian Gulf and Gulf of Oman Oceanographic Study): the most magnificent survey of its type in the region for the duration of one year.
- ◆ Building of the first Iranian Ocean Going Research Vessel with the length of 50 meters
- ◆ INCAR: Iranian National Center for Antarctic Research

Moreover, He has acted as the *Editorial Board* of the following journals in the country:

- ◆ Hydraulics of Iranian Hydraulic Association (2004-2013)
- ◆ Journal of Marine Engineering of Iranian Association of Naval Architecture and Marine Engineering (2005 – present)
- ◆ Oceanography of Iranian National Institute for Oceanography (2004 – 2015)
- ◆ Natural Resources and Marine Sciences (2010-2015)
- ◆ J. of the Persian Gulf (2019)
- ◆ Danesh Nameye Khalij-e-Fars (2008-2015).

Professional Summary

- Assistant Professor of Islamic Azad University, Central Tehran Branch, Faculty of Engineering, since 2016
- Director of Iranian National Institute for Oceanography & Atmospheric Science (INIOAS) since June 2006 till March 2015
- Member of the Faculty of INIOAS (Assistant Professor since 2001 till 2015)
- Research Deputy and the Head of Ocean Engineering Group of INIOAS since 2001 till June 2006
- Research Deputy of Soil Conservation & Watershed Management Research Center (SCWMRC) since 2000 till 2001
- Director of Water & Watershed Management Research Company since 1995 till 2000
- Head of Coastal Protection Section of SCWMRC since 2004 till 2005
- Director of Training Unit, Water Research Center, Tehran, Iran, 1994-1995.
- Director of Civil Engineering Committee, Ministry of Agriculture, Zanjan, Iran, 1985-1986.

Education

Ph.D. in Coastal Engineering, University of New South Wales, Sydney, Australia (1990-1994)

M.Sc. in Hydraulic Structures, Tehran University, Tehran, I. R. of Iran (1987 – 1989)


B.Sc. in Civil Engineering, Amirkabir University of Technology (Tehran Polytechnique), Tehran, I. R. of Iran.















THESES:

**Design of Upright Perforated Energy Dissipators for Use in Wave Basins*, Doctoral Dissertation, Department of Water Engineering, School of Civil Engineering, University of New South Wales, Australia, 1995

**Computer Design of Diversion Dams Constructed on Impermeable Beds*, Dept. of Civil Engineering, Technical and Engineering Faculty, Tehran University, Iran, 1989

Teaching Experience

-  **Theory of Waves and Tide**, M.Sc. of Physical Oceanography: Khorramshahr University of Marine Science and Technology (2002-present), Kish University (1999-2005), Faculty of Marine Sciences and Technology of Islamic Azad University of Tehran (1994-present)

-  **Advanced Fluid Mechanics**, M.Sc. of Physical Oceanography: Faculty of Marine Sciences and Technology of Islamic Azad of Tehran (1995-2005)
-  **Advanced Theory of Waves and Tide**, Ph.D. of Physical Oceanography: Khorramshahr University of Marine Science and technology (2009)
-  **Oceanography**, M.Sc. of Surveying Engineering: University of Tehran (2007)
-  **Coastal Engineering**, M.Sc. of Geology Engineering: University of Tarbiat Moallem (2004), University of Tehran (2005)
-  **Physical Dynamics of Ocean**, M.Sc. of Physical Oceanography: Khorramshahr University of Marine Science and Technology (2002)
-  **Physical Oceanography**, M.Sc. of Physical Oceanography: Khorramshahr University of Marine Science and Technology (2002)
-  **Design of Coastal Structures**, M.Sc. of Coastal Engineering: Khorramshahr University of Marine Science and Technology (2011-2013)
-  **Basics of Marine Hydraulics**, M.Sc. of Coastal Engineering: Khorramshahr University of Marine Science and Technology (2011-2016)
-  **Basics of Marine Hydraulics**, M.Sc. of Coastal, Port and Marine Structures Eng., Islamic Azad University, Central Tehran Branch (2017-2019)
-  **Sediment Transport**, Ph.D. of Coastal, Port & Marine Structures Engineering: Hormozgan University (2014)
-  **Coastal Zone Management**, M.Sc. of Coastal Engineering: Khorramshahr University of Marine Science and Technology (2011)
-  **Oceanography**, M.Sc. of Coastal, Port and Marine Structures Eng., Islamic Azad University, Central Tehran Branch (2017)
-  **Application of Physical Modelling and Field Measurements**, M.Sc. of Coastal, Port and Marine Structures Eng., Islamic Azad University, Central Tehran Branch (2018-2019)
-  **Principles of Port Eng.**, B.Sc. of Civil Eng., Islamic Azad University, Central Tehran Branch (2017)






-  **Statics**, B.Sc. of Civil Eng., Islamic Azad University, Central Tehran Branch (2018)

-  **Strength of Materials**, B.Sc. of Civil Eng., Islamic Azad University, Central Tehran Branch (2018-2019)

-  **Environmental Eng. For Civil Engineers**, B.Sc. of Civil Eng., Islamic Azad University, Central Tehran Branch (2018-2019)

-  **Principles of Coastal Eng.**, M.Sc. of Coastal, Port and Marine Structures Eng., Islamic Azad University, Central Tehran Branch (2018-2019)

Supervision of Theses

-  Supervisor of 16 Ph.D. Theses
-  Advisor of 11 Ph.D. Theses
-  Supervisor of 75 Masters Theses
-  Advisor of 28 Masters Theses
-  Currently, Supervisor of 3 and Advisor of 2 Ph.D. Students

Honors and Awards











- * Passed the Iranian National Board Examination to enter Ph.D. program in Civil Engineering. The Ministry of Science, Research & Technology of IRAN administered this exam in 1989.


- * Passed the Tehran University Entrance Exam to enter M.SC. Program in Hydraulic Structures. The Ministry of Science, Research & Technology of IRAN administered this exam in 1986.

- * Ph. D. Scholarship for doctoral studies, University of New South Wales awarded by the Ministry of Agriculture.

Publications









Books:













-  **Chegini, V.**, Golshani, A. A., Taebi, S., and Chegini, F.: “Wind Waves and Their Prediction for the Persian Gulf, the Gulf of Oman and the Caspian Sea” (compilation), Ocean Engineering Books Series, No 9, Iranian National Institute for Oceanography, Spring 2014.
-  **Chegini, V.**: “Sediment Transport” (translation), Ocean Engineering Books Series, No 8, Iranian National Institute for Oceanography, Winter 2012.
-  **Chegini, V.**: “Principles of Designing Marine Structures” (compilation), Ocean Engineering Books Series, No 7, Iranian National Institute for Oceanography, Winter 2011.
-  **Chegini, V.**: “Glossary of Coastal Engineering and Physical Oceanography” (compilation), Ocean Engineering Books Series, No 6, Iranian National Institute for Oceanography, Winter 2011.
-  **Chegini, V.** et al.: “Coastal Engineering, Design and Management of Coasts” (translation), Ocean Engineering Books Series, No 5, Comprehensive Ports and Marine Encyclopedia, Volume 3, Ports and Maritime Organization, 2010.
-  **Chegini, V.**, Negarestan, H. et al.: “Oceanography and Its Objectives” (translation), Comprehensive Ports and Marine Encyclopedia, Volume 4, Ports and Maritime Organization, 2010.
-  **Chegini, V.**: “Generation and Analysis of Random Waves” (translation), Ocean Engineering Books Series, No 4, Iranian National Center for Oceanography, Winter 2006.
-  **Chegini, V.**: “Chapters 6-10 of the Standards and Criteria on Designing Iranian Ports and Marine Structures”, President Deputy for Strategic Planning and Control, 2006.
-  **Chegini, V.**: “Guide for Designing Breakwaters (Volume 2)” (compilation), Ocean Engineering Books Series, No 3, Iranian National Center for Oceanography, Summer 1998.
-  **Chegini, V.**: “Guide for Designing Breakwaters (Volume 1)” (compilation), Ocean Engineering Books Series, No 2, Iranian National Center for Oceanography, Summer 1998.


-  **Chegini, V.:** “Water Wave Theories” (translation), Ocean Engineering Series, No. 1, Jihad Water and Watershed Management Research Company (JWRC), Summer1998.


Papers:


International Journals:


-  **Chegini, V.** and Kamranzad, B.: “Offshore Wave Power and Potential Sites for Wave Energy Harvesting in Northern Gulf of Oman”, Accepted for Publishing in the Indian Journal of Marine Sciences.
-  Afshar-Kaveh, N. , Ghaheri, A., **Chegini, V.** and Nazarali, M.: “Application of a Hybrid Approach for Tide-Surge Modeling in the Persian Gulf”, Journal of Coastal Research, Vol. 32 (5), pp. 1126-1134, Sept. (2016).
-  Afshar-Kaveh, N., Ghaheri, A., **Chegini, V.**, Etemad-Shahidi, A. and Nazrali, M.: “Evaluation of Different Wind Fields for Storm Surge Modeling in the Persian Gulf”, Journal of Coastal Research, 33(3), pp. 596-606, (2017).
-  Akbari, P., Sadrinasab, M., **Chegini, V.** and Siadatmousavi, M.: “Tidal Constituents in the Persian Gulf, Gulf of Oman and Arabian Sea: A Numerical Study”, Indian Journal of Geo-Marine Sciences, Vol. 45 (8), pp. 1010-1016, August (2016).
-  Panahi, A., **Chegini, V.**, Sadrinasab, M. and Najarpour M. A.: “Spectral Analysis of Wind Waves Using Field Data in Strait of Hormuz”, Indian Journal of Marine Sciences, Vol. 47(3), pp. 729-739, March (2018).
-  Kamranzad, B., **Chegini, V.** and Etemad-Shahidi, A.: “Temporal-Spatial Variation of Wave Energy and Nearshore Hotspots in the Gulf of Oman Based on Locally Generated Wind Waves”, Renewable Energy, Vol. 94, pp. 341-352, (2016).
-  Kamranzad, B., Etemad-Shahidi, A. and **Chegini, V.:** “Sustainability of Wave Energy Resources in Southern Caspian Sea”, Energy, Vol. 97, pp 549-559, (2016).
-  Azizpour, J., **Chegini, V.** and Siadat Mousavi, S. M.: “Seasonal Variation of the Double Diffusion Processes at the Strait of Hormuz”, Acta Oceanologica Sinica, Vol. 36, pp. 26-34, (2017).


-  Mahmoudof, S. M., Badiei, P., Siadat Mousavi, S. M. and **Chegini, V.**: “Observing and Estimating of Intensive Triad Interaction Occurrence in Very Shallow Water”, *J. of Continental Shelf Research*, Vol. 122, pp. 68-76, July (2016).
-  Hosseini, S. T., **Chegini, V.**, Sadrinassab, M., Siadat Mousavi, S. M., and Yari, S.: “Tidal Asymmetry in a Tidal Creek with Mixed Mainly Semidiurnal Tide”, *Accepted in Ocean Science Journal*, Vol. 51, Issue 2, pp. 195-208, June (2016).
-  Kamranzad, B., Etemad-Shahidi, A., **Chegini, V.** and Yeganeh-Bakhtiary, A.: “Climate Change Impact on Wave Energy in the Persian Gulf”, *Ocean Dynamics*, Vol. 65, pp. 777-794, April (2015).
-  Khalilabadi, M. R., Sadrinassab, M., **Chegini, V.** and Akbarinassab, M.: “Internal Wave Generation in the Gulf of Oman (Outflow of Persian Gulf)”, *Indian Journal of Marine Sciences*, Vol 44 (3), pp. 519-527, March (2015).
-  Akhyani, M., **Chegini, V.** and AliakbariBidokhti, A. A.: “An Appraisal of the Power Density Profile in the Persian Gulf and the Gulf of Oman”, *Renewable Energy*, Vol. 74, pp. 307-317, (2015).
-  Shiea, M., **Chegini, V.**, AliakbariBidokhti, A. A. and Ahmadi Givi, F.: “Impact of Wind and Thermal Forcing on the Seasonal Variation of Three-Dimensional Circulation in the Caspian Sea”, *Indian J. of Geo-Marine Sciences*, Vol. 45 (5), pp. 671-686, May (2016).
-  Moeni, M. H., Etemad-Shahidi, A., **Chegini, V.**, Rahmani, I. and Moghaddam, M.: “Error Distribution and Correction of the Predicted Wave Characteristics over the Persian Gulf”, *Ocean Engineering*, Vol. 75, pp. 81-89, January (2014).
-  Kamranzad, B., Etemad-Shahidi, A., **Chegini, V.** and Hadadpour, S.: "Assessment of CGCM 3.1 Wind and Produced Wave Power in the Persian Gulf", *Journal of Coastal Research*, Vol. 65, pp. 249-253, January (2013).
-  Kamranzad, B., Etemad-Shahidi, A., **Chegini, V.**: “Assessment of Wave Energy Variation in the Persian Gulf”, *Ocean Engineering*, Vol. 70, pp. 72-80, (2013).
-  Gandomi, Y, **Chegini, V.**, Savari, A., Doraghi, A. M.: "Ecological Classification of Gorganroud Estuary (Southeast Caspian Sea), Iran", *Archives Des Sciences*, pp. 134-142, (2012).
-  Moeini, M. H., Etemad-Shahidi, A., **Chegini, V.**, and Rahmani, I.: “Wave Data Assimilation Using a Hybrid Approach in the Persian Gulf," *Ocean Dynamics* Vol. 62 pp. 785-797, (2012).
-  Gandomi, Y, **Chegini, V.** and Shadi, A.: “Habitat Mapping of Golestan Coasts (South East Caspian Sea), Iran”, *Fish and Marine Sciences*, 4(2), pp. 121-124, (2012).


-  Moghim, M. N., Shafieefar, M., Torum, A. and **Chegini, V.**: “A New Formula for the Sea State and Structural Parameters Influencing the Stability of Homogeneous Reshaping Berm Breakwaters”, *Coastal Engineering*, Elsevier, Vol. 58, pp. 706-721, (2011).


-  Ghaffari, P. and **Chegini, V.**: “Acoustic Doppler Current Profiler Observations in the Southern Caspian Sea”, *Shelf Currents and Flow Field off FeridoonKenar Bay, Iran*, *Ocean Science*, Vol. 6, pp. 737-748, (2010).


-  Moeini, M. H., Etemad- Shahidi, A., and **Chegini, V.**: “Wave Modeling and Extreme Value Analysis off the Northern Coast of the Persian Gulf”, *Applied Ocean Res.*, Vol. 32, Issue 2, pp. 209-218, (2010).


-  Golshani, A. A., Taebi, S., and **Chegini, V.**: “Wave Hindcast and Extreme Value Analysis for Southern Caspian Sea”, *Coastal Engineering Journal*, Vol. 49, No 4, Dec. (2007).


-  Ebrahimi, A., Behdarvandi, M., Haghghi Pour, S. and **Chegini, V.**: “Investigation of Various Random Wave Run-up Amounts under the Influence of Different Slopes and Roughness”, *Environment Conservation J.*, 16(SE), pp. 249-253., (2015).










-  Deilami-Tarifi, M., Behdarvandi, M., **Chegini, V.** and Haghghi Pour, S.: “Effect of Slope, Size and Arrangement of Roughness of Sea Wall on Overtopping of Random Waves”, Accepted in *Int. J. of Biology, Pharmacy and Allied Sciences (IJBPAS)*, Special Issue, 4(12), pp. 1026-1034, (2015).

-  Aghajanpour, F., Savari, A., Danaehkar, A. and **Chegini, V.**: “Combining Biological and Geomorphological Data to Introduce Biotopes of Bushehr Province, Persian Gulf”, *Environ. Monit. Assess.*, 187(12), 17 pp., Dec. (2015).

-  Deldar, H., Bidokhti, A. A., **Chegini, V.** : “An Investigation of the Effects of Internal Waves on Sound Propagation in a Stratified Environment with a Slopping Bed”, *Acoustical Physics Journal*, Vol. 64, No. 1, pp. 58-63, (2018).


-  Kamranzad, B., Etemad-Shahidi, A. and **Chegini, V.** : “Developing an Optimum Hotspots Identifier for Wave Energy Extracting in the Northern Persian Gulf”, *Renewable Energy*, Vol. 114, Part A, pp. 59-71, (2017).


-  Mahmoudof, M., Badie, P., Siadatmousavi, S. M. and **Chegini, V.**: “Spectral Wave Modelling in Very Shallow Water at Southern Coast of Caspian Sea”, *J. of Marine Science and Application*, Vol. 14, pp. 140-151, (2018).


-  Abbasi, M. R., **Chegini, V.**, Sadrinasab, M., and Siadatmousavi, S. M. : “Optimization of the Modeled Surface Temperature by Assimilation of SST Data over the Persian Gulf”, *J. of Geo-Marine Science*, 47(9), pp. 1803-1808, Sept. (2018).
-  Azizpour, J., Siadatmousavi, S. M., and **Chegini, V.**: “Measurement of Tidal and Residual Currents in the Strait of Hormuz”, *Journal of Estuarine, Coastal and Shelf Science*, Vol. 178, pp. 101-109, Sept. (2016).
-  Kamranzad, B., Etemad-Shahidi, A., and **Chegini, V.**: “Sustainability of Wave Energy Resources in Southern Caspian Sea”, *Energy, the Int. J., Elsevier*, Vol. 97, pp. 549-559, Feb. (2016).
-  Khosravi, M., Siadatmousavi, S. M., Vennell, R., and **Chegini, V.**: “The Transverse of Flow in a Tidal Channel within a Greater Strait”, *Journal of Ocean Dynamics*, Vol. 68, pp. 239-254, (2018).
-  Komeijani, F., **Chegini, V.** and Siadatmousavi, S. M.: “Seasonal Variability of Circulation and Air-sea Interaction in the Caspian Sea Based on a High Resolution Circulation Model”, *J. of Great Lakes Research*, Vol. 45, Issue 6, pp. 1113-1129, Dec (2019).
-  Afshar-Kaveh, N., Ghaheri, A., **Chegini, V.**, and Nazarli, M.: “Prediction of Non-Tidal Sea Level Variations in the Persian Gulf Using Assimilation Techniques”, *Coastal Engineering Journal*, Vol. 60, Issue 3, (2018).
-  Abbasi, M. R., **Chegini, V.**, Sadrinasab, M., and Siadatmousavi, S. M.: “Improving the Persian Gulf Sea Surface Temperature Simulation by Assimilating the Satellite Data via the Ensemble Kalman”, *International Journal of Environmental Science and Technology*, May 2018.
-  Hosseini, S. T., **Chegini, V.**, Sadrinasab, M., Siadatmousavi, S. M., and Yari, S.: “Temperature, Salinity and Water-age variations in a Tidal Creek Network, Bushehr Port, Iran”, *Journal of Coastal Conservation*, March 2018.
-  Abbasi, M. R., **Chegini, V.**, Sadrinasab, M., and Siadatmousavi, S. M.: “Correcting the Sea Surface Temperature by Data Assimilation Over the Persian Gulf”, *Iranian Journal of Science and Technology, Transaction A, Science*, 43(1), Jan. 2018.


ISC (Islamic World Science Citation Center) and Other Iranian Journals:


- 🖼️ Azizpour, J., Siadatmousavi, S. M., and **Chegini, V.** : “Study of Physical Oceanographic Parameters in the Strait of Hormuz” (in Persian), Journal of Hydrophysics, Vol. 1, No. 1, pp. 15-24, Fall 2015 and Winter 2016.
- 🖼️ Shiea Ali, M. **Chegini, V.**, and Vali Pour, A.: “Classification of Hormozgan Province Coasts Using Empirical Methods” (in Persian), Iranian Journal of Geophysics, Vol. 11, No. 2, pp. 63-75, 2017.
- 🖼️ Komeijani, F., Sadrinasab, M., **Chegini, V.** and Siadat Mousavi, S. M.: “Simulation of Waves in the South of the Caspian Sea Using ECMWF (ERO-Interim) Wind Field and Its Comparison with ISWM II Results” (in Persian), Journal of Oceanography, Vol. 6, No. 23, pp. 77-85, Fall 2015.
- 🖼️ Khalilabadi, M. R., Sadrinasab, M., **Chegini, V.** and Akbarinasab, M.: “Three Dimensional Modeling of Nonlinear Internal Waves in the Gulf of Oman Shelf Region” (in Persian), Journal of Oceanography, Vol. 6, No. 22, pp. 19-28, Summer 2015.
- 🖼️ Einali, A. and **Chegini, V.**: “Calculation of Heat Budget in Chabahar and Pozm Bays”, (in Persian), Journal of Oceanography, Vol. 6, No. 21, pp. 71-79, Spring 2015.
- 🖼️ Azizpour, J., **Chegini, V.**, Khosravi, M. and Einali, A.: “Study of the Physical Oceanographic Properties of the Persian Gulf (Marine Science), Strait of Hormuz and Gulf of Oman Based on PG-GOOS CTD Measurements”, Journal of the Persian Gulf (Marine Science), Vol. 5, No. 18, pp. 37-48, Dec. 2014.
- 🖼️ Dordizadeh Basirabad, A., **Chegini, V.**, Mahdizadeh, M. M. and Kamranzad, B.: “Investigating Wave Energy in Amirabad Port Using SWAN Software Results” (in Persian), Journal of Marine Science and Technology, Vol. 13, No. 2, Summer 2014.
- 🖼️ Shiea, M., Aliakbari Bidokhti, A. and **Chegini, V.**: “Study and Identifying the Most Important Forcing In the Pattern and Velocities of the Caspian Sea Currents” (in Persian), Iranian Journal of Geophysics, Vol. 9, No. 3, pp. 118-142, 2015.
- 🖼️ Hosseini, S. T. and **Chegini, V.**: “Study of Seasonal Variations of Physico-Chemical Parameters in the Coastal Waters Around the Bushehr Peninsula” (in Persian), Journal of Oceanography, Vol. 5, No. 17, pp. 125-144, Spring 2014.
- 🖼️ Rajabi, S., **Chegini, V.**, Lari, K., Kamranzad, B., and Hosseini, S. T.: “Numerical Modeling of Wind Waves in Anzali Zone Using SWAN Software” (in Persian), Journal of Oceanography, Vol. 4, No. 15, pp. 83-92, Autumn 2013.


-  Najarpour, M. A., **Chegini, V.**, Sadrinassab, M. and Kabi, A.: “Specifications of Wind Waves Spectrum in Assalouyeh Zone” (in Persian), Journal of Marine Science and Technology, Volume 11, No. 4, pp. 57-63, Winter 2013.


-  Vafaie, B., **Chegini, V.**, Saghaie, A. and Ezam, M.: “Classification of Water Masses in Chabahar Bay Using Clustering Method” (in Persian), Journal of Oceanography, Vol. 4, No. 13, pp. 11-19, Spring 2013.


-  Sadrinassab, M., Khedri, P., **Chegini, V.** and Pashazanousi, H.: “Numerical Modeling of Pollution Dispersion in the Nayband Bay” (in Persian), Journal of Marine Science and Technology, Vol. 10, No. 4, pp. 78-87, 2012.


-  Shirinmanesh, S. and **Chegini, V.**: “Study and Analysis of Extractable Energy from Wave and Tidal Currents in Chabahar Bay” (in Persian), Journal of Marine Science and Technology, Vol. 10, No. 2, pp. 91-107, 2011.


-  Akbarinasab, M., AliakbariBidokhti, A. A., Sadrinasab, M., **Chegini, V.** and Mehdizadeh, M. M.: “Investigation of the Effect of Outflow Intrusion of Acoustical Signal Fluctuations in Laboratory” (in Persian), Journal of the Earth and Space Physics, Vol. 39, No. 3, pp. 129-143, 2013.











-  Mahmoudof, M.; Banijamali, B; **Chegini, V.**: “Least Squares Analysis of Noise-free Tides Using Energy Conservation and Relative Concentration of Periods Criteria”, Journal of the Persian Gulf (Marine Science), Vol. 3, No. 8, pp. 13-23, 2012.

-  Komeijani, F. and **Chegini, V.**: “Spatial and Field Analysis of Physical Quantities of Chabahar Bay Waters in the Winter Monsoon of 2007-2008” (in Persian), Journal of Oceanography, No. 9, pp. 69-77, 2012.


-  Farjami, H., Hosseini, S.T., **Chegini, V.**, and Mohammdi, S.S.: “Simulation of Wind Wave in Bushehr Bay Using SWAN Software” (in Persian), Journal of Oceanography, Vol. 2, No. 8, pp. 79-87, 2011.


-  Chegini, F. and **Chegini, V.**: “Experimental Studies of Wave Transmission through Single Perforated Sheets and Upright Perforated Wave Filters”, Journal of the Persian Gulf (Marine Science), Vol. 2, No. 5, pp. 1-7, Winter 2011.


-  Mahmoudof, M., **Chegini, V.** and Montazeri-Namin, M.: “Three- Dimensional Simulation of Qeshm Channel Currents”, Journal of the Persian Gulf (Marine Science), Vol. 2, No. 3, pp. 9-16, 2011.


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-  Alizadeh, H., **Chegini, V.,** Rezaie Marani, H., Mahdinia, A., Saleh, A. et. al.: “Persian Gulf and Gulf of Oman Oceanographic Study (PGGOOS)”, Iranian National Institute for Oceanography and Atmospheric Science, 2019.

Public Contributions

Member of Scientific advisory committee and the panel member of the following conferences:


-  All Iranian Hydraulics Conferences, Iran
-  All International Conferences on Coasts, Ports and Marine Structures (ICOPMAS), Iran
-  All Iranian Conferences on Marine Sciences and Technology, Iran
-  All Iranian Conferences on Marine Industry, Iran


Training Courses


MIKE21 SW, 19th August – 8th September 2003, at DHI Water & Environment


Projects


Past involvement in the following projects


-  Persian Gulf and Gulf of Oman Oceanographic Study (PG-GOOS), (Project Leader).


-  Environmental Monitoring and Processing of Marine Data of the Persian Gulf, (Project Leader).


-  Study of Seasonal Variation Trend of the Chabahar Bay Water, the Phase Fourth: Summer 2011- Summer 2012, (Project Colleague).


-  Study of Seasonal Variation Trend of the Pozm bay Water: The First Phase: Summer 2011- Summer 2012, (Project Colleague).













-  Environmental Monitoring of the Gulf of Oman Basin, (Project Colleague).















-  Environmental Monitoring and Analysis of Oceanographic Data of the Persian Gulf, (Project Leader).


-  Examining the Risk of Tsunami Generation in the Caspian Sea and Its Numerical Modeling, (Project Colleague).


-  Investigating the Field Measurements and Modeling of Rip Currents in the Southern Waters of the Caspian Sea, the First Phase: A Case Study, (Project Colleague).


-  Determining the Potential of Energy of Currents in the Caspian Sea, (Project Leader).


-  Prediction of Extreme Wind Waves Parameters in the Persian Gulf, Considering the Effects of Climate Change on 100 Years Data, Phase One, (Project Colleague).
-  Numerical Modeling of Water Circulation in the Persian Gulf and the Gulf of Oman Using GETM and FVCOM Models, (Project Leader).
-  Examination of the Risk of Tsunami Generation in the Gulf of Oman and Its Modeling, (Project Leader).
-  Investigating and Analysis of Properties of Chabahar Bay Water Using Observed Data during 2005-2011, (Project Leader).
-  Mass Transport and Changes of Mean Sea Level Induced by Edge Waves (Long Waves), (Project Colleague).
-  Modeling of Wind Waves in the Boushehr and Assaluyeh Ports, (Project Leader).
-  Investigating the Field Measurements and Modeling of Rip currents in the Southern waters of the Caspian Sea, The First Phase: A Case Study, (Project Colleague).
-  Study of Seasonal Variation Trend of Physical Parameters of the Chabahar Bay Water, The Third Phase: Year 2009, (Project Leader).
-  Feasibility Study of Wave and Marine Currents Renewable Energy — Persian Gulf, Gulf of Oman, and Caspian Sea, (Project Leader).
-  Study of Trend of Seasonal Changes of Physical Parameters of Chabahar Bay—Third Phase: 2009, (Project Leader).
-  Study of Seasonal Variation Trend of Physical Parameters of the Chabahar Bay (The Second Phase: 2008), (Project Leader).
-  Procedure for Maintenance of Marine Measurement Equipment, (Project Leader).


-  Study of Trend of Seasonal Changes of Physical Parameters of Chabahar Bay—Second Stage: 2008. (Project Leader)
-  Design of Floating Breakwater, (Project Colleague).
-  Investigating the Hydraulic Responses of Berm Breakwaters Using Experimental Results, (Project Leader).
-  Study of Trend of Seasonal Changes of Physical Parameters of Chabahar Bay—First Stage: Winter 2006 and Spring 2007, (Project Leader).
-  Field Measurement of Wave Characteristics in Site # 1 of Special Economic Zone of Pars Energy, (Project Leader).
-  Determination of Wind Waves Climate in the Offshore Waters of Amirabad Port, (Project Leader).
-  Extreme Analysis of Wind and Wave According to Direction in the Seas of Iran — Persian Gulf, Gulf of Oman, and Caspian Sea, (Project Leader).
-  Assessment of Wind Data and ECMWF Model in the Caspian Sea (Anzali Port), (Project Leader).
-  Modeling of the Waves of Iran’s Seas, (Project Leader).
-  Investigating the Stability and Hydraulic Responses of Reshaping Breakwaters Using the Physical Modeling Method, (Project Leader).
-  Determination of Standards for Design of Reshaping Breakwaters Using Physical Modeling, (Project Leader).
-  Investigation the Hydraulic Responses of Rubble-mound Breakwaters Attacked by Irregular Sea Waves, (Project Colleague).
-  Experimental Study of a Preamble Sloping Wave Absorber, (Project Leader).
-  Study of Rubble-mound Breakwaters Using Physical Modeling, (Project Leader).


-  Investigation of the Performance of Floating Breakwaters Using Physical Modeling, (Project Leader).


-  Study of the Stability of the Trunk and the Roundhead of Chabahar Breakwater Using Physical Modeling, (Project Leader).

-  Study the Stability of Pasabandar Breakwater Using Physical Modeling, (Project Leader).


-  Study of the Stability of Southern Pars Breakwater Using Physical Modeling and BREAKWAT Software, (Project Leader).


-  Investigation of the Wave Height Distribution Inside Southern Pars Basin Using Physical and Numerical Modeling, (Project Leader).


-  Study of the Near-shore Hydrodynamic and Sedimentation of Southern Pars Harbor Using Numerical Modeling, (Project Leader).

-  Feasibility study of the Caspian Sea - Persian Gulf Navigation Channel, Water Resources Engineering Studies, (Project Colleague).

 ***Technical activities in the field of Port Development and ICZM:***

-  Member of Technical and Advisory Committee on Designing and Construction of Fishery Harbors of Iran, Fishery Organization of Iran

-  Member of Steering Committee of ICZM Project of Iran, Port and Maritime Organization (PMO)

-  Head of Technical Committee of Cage Culture, Fishery Organization of Iran