

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

## Summary

Dr. Said Mazaheri has more than 25 years of experience both in academic and industrial sectors. He has also played a key role in many industrial coastal and marine engineering projects. Since 1991, he has been involved in consultancy services as designer, principal expert, project manager, head of department and also director of business and international affairs. He has supervised many MSc and PhD students since 2004 and has also lectured various subjects in the fields of coastal, offshore and ocean engineering such as Marine Hydrodynamics, Advanced Offshore Engineering, Computational Fluid Dynamics, Marine Geotechnics, Port Engineering, Water Wave Mechanics, and Marine Renewable Energy Systems as well as many related maritime short courses. He is also a member of many scientific journals, international organizations and technical panels. His research interests are in the fields of Marine Hydrodynamics, Water Wave Mechanics, Wave Hindcasting and Forecasting, Port Planning and Development, VIV of Marine Pipelines and Risers, Seakeeping of Floating Offshore Platforms, Ocean Renewable Energy and Oil Spill Modeling.

## Education

Offshore Engineering/PhD

School of Marine Science & Technology, Newcastle Univ., UK

*Sept. 1999 – Nov. 2003*

- Thesis: Response-Based Analysis of an FPSO due to Arbitrary Wave, Wind and Current Loads
- Supervisors: Prof. Atilla Incecik and Prof. Martin J. Downie
- Examiners: Prof. Stephen R Turnock and Prof. Ehsan Mesbahi

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

Hydraulic Structures/MSc

Faculty of Civil Engineering, Sharif University of Technology, Tehran

- Thesis: Analyzing Wave and Current Hydrodynamics in Navigational Access Channels (Case Study: Bahmanshir Navigational Access Channel)
- Supervisor: Prof. Mahmoud Borghei *Feb. 1991 – Dec. 1993*

Civil Engineering/BSc

Faculty of Civil Engineering, University of Ferdowsi, Iran

*Sept. 1984 – June 1990*

## Experience

A/Prof. of Offshore Engineering

Faculty of Ocean Engineering and Technology, INIOAS

*Aug 2010 – Present*

Tehran, Iran

- ⊕ Head of the Faculty for 3 years including “Ocean Data” research group and “National Centre for Ocean Data”
- ⊕ Head of Marine Environmental Data Network, MITC, Vice-Presidency for Science & Technology
- ⊕ Head of National Research Fleet Network, MITC, Vice-Presidency for Science & Technology
- ⊕ Member of Steering Committee, Iranian National Center for Ocean Hazards (INCOH)
- ⊕ Member of Steering Committee, Iranian National Center for Ocean Data (INCOD)
- ⊕ INIOAS representative/expert invitee to IOGOOS and IOP meetings/workshops
- ⊕ Chair of Wave and Storm Studies Technical Panel, INCOH
- ⊕ Chair of Oil Spill Modeling Technical Panel, INCOH
- ⊕ Member of Postgraduate Committee for Selecting Post Graduate Students
- ⊕ Member of Research Council
- ⊕ Research and Education Advisor to the Director of INIOAS
- ⊕ Investigator/co-investigator for more than 10 research projects in the field of Ocean Engineering and Technology (Attracting more than 1,500,000 USD external funds)
  - Evaluation and modification of wave spectrum in Persian Gulf considering offshore wave characteristics

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

- Hydrodynamic investigation of a wave energy oscillatory water column (OWC) device (lab tests and numerical developments)
- Evaluation of WAVEWATCH III for wave modelling in semi-enclosed sea area
- Three-dimensional numerical modeling of flow around tandem circular cylinders in offshore structures
- Offshore metocean & environmental data gathering and processing for Farzad-A (offshore platforms)
- Hydrodynamic analysis of risers of semisubmersible platforms subjected to wind, wave, and current loads
- 3D modeling of oil distribution and mixing spilled from deep sea waters
- Evaluation of tsunami effects on berthing structures
- Evaluation of tsunami effects on rubble mound breakwaters
- Oil spill modeling in Caspian Sea
- Hydrodynamic analysis of floating wind turbine (feasibility study for the Gulf of Oman)
- Development of operational wave forecasting numerical model in the north of Indian Ocean
- Estimation of the effect of relative submerged depth and Keulegan-Carpenter on the vortex formation around the vertical submerged breakwater
- Determining a wave spectrum for Persian Gulf
- Providing a numerical code to simulate hydrodynamic behavior of floating rigid body subjected to tsunami waves
- Development an online wave forecasting system in Persian Gulf, Gulf of Oman and Caspian Sea
- Iranian sea wave modeling (ISWM II), 32-year wave simulation in Persian Gulf, Gulf of Oman and Caspian Sea
- ⊕ Teaching Ocean Engineering topics such as Marine Hydrodynamics, A/Offshore Engineering, CFD and Marine Renewable Energy
- ⊕ Organizing and lecturing various short courses such as ‘Marine Pipeline Engineering’ and ‘Design of Ports and Offshore Structures’
- ⊕ Supervising PhD students (VIV of marine risers, hydrodynamic and wake development around tandem pipelines, oil spill modelling, mathematical and physical models of OWC energy device)

Assistant Prof. of Offshore Engineering

Dept. of Marine Transportation and Technology

---

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

Transportation Research Institute, Maritime Transportation Group      *Jan. 2005 – Aug. 2010*  
Tehran, Iran

- ⊕ Head of Department for 3 years with the following achievements:
  - Development the Dept. of Marine Transportation & Technology with the establishment of nine research groups (Coastal and Offshore Structures, Marine Hydrodynamics, Marine Environment, Maritime Safety, Maneuvering and Nautical Simulation, Port and Coastal Engineering & Management, Mathematical and Physical Modeling Techniques, Marine Pipeline Engineering, and Maritime Standards and Conventions).
  - Collaborating with various maritime industries and attracting more than 1,000,000 US Dollars equivalent research fund within two years.
  - Organizing and lecturing various short courses.
- ⊕ Responsible for management/conducting the following research projects:
  - Harbor tranquility due to waves generated by large ships
  - A guide to the design of navigational buoy in Persian Gulf
  - Mooring design aspects for floating platforms and berthed vessels
  - Determining wave spectrum in Persian Gulf, Gulf of Oman and Caspian Sea
  - Calculating squat in restricted approach channels by laboratory techniques
  - Master plan of maritime safety
  - Towards free ports; a feasibility study for Bandar Abbas Port

Invited Lecturer

Iran University of Science & Technology

*Sept. 2007 – Sept. 2012*

Tehran, Iran

- ⊕ Lecturing the following courses:
  - Design Offshore Platforms (MSc Course)
  - Fabrication, Construction and Installation of Offshore Structures (MSc Course)
  - Marine Geotechnics (MSc Course)

Invited Lecturer

Faculty of Mechanical Eng., Sharif University of Technology

*Sept. 2006 – Sept. 2007*

Tehran, Iran

- ⊕ Lecturing the following courses:
  - Advanced Offshore Eng. (PhD Course)

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

- Marine Hydrodynamics (MSc Course)
- Engineering Mechanics –Statics (BSc Course)
- Design Offshore Platforms (MSc Course)

Invited Lecturer

Faculty of Marine Tech., Amirkabir University of Technology  
Tehran, Iran

*Sept. 2005 – Jan. 2007*

⊕ Lecturing the following courses:

- Marine Geotechnics (MSc Course)
- Fabrication, Construction and Installation of Offshore Structures (MSc Course)

## Publications

### Book

Year	Citation
2013	<b>Mazaheri S</b> , 2013, ‘Response-Based Analysis of Floating Offshore Platforms’, Scholars’ Press, ISBN: 978-3-639-51616-6
2006	Management and planning Organization and Transportation Research Institute, 2006, ‘Ports and Marine Structures Design Manual-Loading and Design Consideration’, No. 300-1, Tehran, Iran
2006	Management and planning Organization and Transportation Research Institute, 2006, ‘Ports and Marine Structures Design Manual-Breakwaters and Coastal Protection Structures’, No. 300-5, Tehran, Iran
2006	Management and planning Organization and Transportation Research Institute, 2006, ‘Ports and Marine Structures Design Manual-Berthing Equipment and Structures’, No. 300-6, Tehran, Iran

### Journal Article

Year	Citation
2018	Salehi M A, <b>Mazaheri S</b> , Kazeminezhad M H, 2018, ‘Study of Flow Characteristics Around a Near-Wall Circular Cylinder Subjected to a Steady Cross-Flow, International Journal of Coastal and Offshore Engineering, Vol. 1, No. 4, pp 45-55
2018	Saleh A, Hamzehpour A, Mehdinia A, Darvish Bastami K, <b>Mazaheri S</b> , 2018 ‘Hydrochemistry and Nutrient Distribution in Southern Deep-Water Basin of the

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

Caspian Sea', *Marin Pollution Bulletin*, Vol., 127, pp 406-411, Elsevier

- 
- 2017 Zamanirad S, **Mazaheri S**, Ghafourian M, 2017, 'Introducing a Method for More Precise Prediction of Berth Occupancy Ratio in Bulk Liquid Terminals', *International Journal of Coastal and Offshore Engineering*, Vol. 1, No. 2, pp 21-26
- 
- 2017 Komachi Y, **Mazaheri S**, Tabeshpour M R, 2017, 'Wake and Structure Model for Simulation of CF/IL VIV of Marine Risers', *Journal of Vibroengineering*, Accepted 27-07-2017
- 
- 2017 **Mazaheri S**, Kazeminezhad M H, 2017, 'Evaluation of Spectral Wave Parameterization in Semi-Enclosed Sea Areas', *Journal of Coastal Zone Management*, Vol. 20:2, pp 23,
- 
- 2017 Amirinia G, Mafi S, **Mazaheri S**, 2017, 'Offshore Wind Resource Assessment of Persian Gulf using Uncertainty Analysis' and GIS, *Renewable Energy*, Vol. 113, pp 915-929
- 
- 2017 Komachi Y, **Mazaheri S**, Tabeshpour M R, 2017, 'The Effect of Shifting Natural Frequency on the Reduction of Vortex-Induced Vibrations of Marine Risers', *International Journal of Coastal and Offshore Engineering*, Vol. 1, No. 1, pp 9-16
- 
- 2016 Moazzami H, Siadatmousavi S M, **Mazaheri S**, 2016, 'Data Assimilation for Wave Data in Persian Gulf Using WAVEWATCH III Spectral Model', *Journal of Marine Engineering*, Vol. 12, No. 24, pp 115-125
- 
- 2015 **Mazaheri S**, Arabzadeh A, 2015, 'Modification of Wave Spectrum Parameters in Persian Gulf by Considering Field Measurements in Northern Waters', *Journal of Marine Engineering*, Vol. 11, No. 22, pp 119-125
- 
- 2015 Reisinezhad A, **Mazaheri S**, Hejazi K, Jabbari M H, 2015, 'A Novel Finite Element Scheme of Nwogu Extended Boussinesq Equations to Predict Free Surface Elevation over Different Bathymetry of Beaches', *Journal of Coastal Research*, Vol 32, No. 3, pp 531=541
- 
- 2013 **Mazaheri S**, Kamranzad B, Hajivalie F, 2013, 'Modification of 32 Years ECMWF Wind Field Using Quikscat Data for Wave Hindcasting in Iranian Seas', *Journal of Coastal Research*, SI 65, ISSN 0749-0208
- 
- 2012 Yaghoobi M, **Mazaheri S**, Jabbari E, 2012, 'Determining Natural Frequency of Free Spanning Offshore Pipelines by Considering the Seabed Soil Characteristics',
-

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

Journal of Persian Gulf, Vol. 3, No. 8

- 
- |      |   |
|------|---|
| 2011 | <b>Mazaheri S</b> , Ghaderi Z, 2011, ‘Shallow Water Wave Characteristics in Persian Gulf. Journal of Coastal Research’, SI 64, 572 – 575, ISSN 0749-0208                                  |
| 2010 | <b>Mazaheri S</b> , 2010, ‘Developing the Second Order Wave Effects on Moored Floating Structures’, Journal of Marine Engineering, Vol. 6, No.11  |
| 2006 | <b>Mazaheri S</b> , 2006, ‘The Usage of Artificial Neural Networks in Hydrodynamic Analysis of Floating Offshore Platforms’, Journal of Marine Engineering, Vol. 3 No. 4 pp 1E-13E        |
| 2005 | <b>Mazaheri S</b> , and Downie M J, 2005, ‘Response-Based Method for Determining the Extreme Behavior of Floating Offshore Platforms’, Ocean Engineering, Vol 32/3-4 pp 363-393, Elsevier |

## Selected Conference Papers

- | Year | Citation   |
|------|--|
| 2017 | <b>Mazaheri S</b> , ‘The Necessity of Evaluating Spectral Wave Parameterization’, 3 <sup>rd</sup> Australian Wind Waves Symposium, 24-26 Oct. 2017, Perth, Australia   |
| 2017 | <b>Mazaheri S</b> , Kazeminezhad M, ‘Evaluation of Spectral Wave Parameterizations in Semi-Enclosed Sea Areas’, 2 <sup>nd</sup> International Conference on Coastal Zones, July 17-18 2017, Melbourne, Australia   |
| 2017 | <b>Mazaheri S</b> , Kamranzad B, 2017, ‘Wave Hindcasting in Persian Gulf and Gulf of Oman Based on the Modified 32-Year ECMWF Data’, Proceeding of the ASME 2017 36th International Conference on Ocean, Offshore and Arctic Engineering, 20-25 June 2017, Trondheim, Norway |
| 2016 | <b>Mazaheri S</b> , Reisinezhad A, 2016, ‘Prediction of Free Surface Elevation Over a Submerged Bar by Extended Boussinesq Equations’, 3rd International Conference on Coastal Zone Engineering & Management in the Middle East, 20-23 Nov. 2016, Dubai, UAE                 |
| 2016 | Mirkhalili M, <b>Mazaheri S</b> , 2016, ‘Numerical Study of Underwater Distribution of Oil Spilled from Deepwater Area’, 12th International Conference on Coasts, Ports and Marine Structures, 31 Oct.-2 Nov. 2016, Tehran, Iran   |
| 2016 | Golshani A, Vasselali A, <b>Mazaheri S</b> , 2016, ‘A Comparison Among Different Available Marine Forecasting Systems in Iranian Seas’, 12th International Conference on Coasts, Ports and Marine Structures, 31 Oct.-2 Nov. 2016, Tehran, Iran                              |

# SAID MAZAHERI

A/Prof of Offshore Engineering

Faculty of Ocean Engineering and Technology

Iranian National Institute for Oceanography & Atmospheric Science (INIOAS)

No. 3, Etemadzadeh, Fatemi Garbi, Tehran 1411813389, Iran, said.mazaheri@gmail.com – [www.inio.ac.ir](http://www.inio.ac.ir)

---

- 
- 2016 Salehi M, **Mazaheri S**, Kazeminezhad M, 2016, ‘Study of Flow Characteristics Around a Circular Cylinder Near Plane Boundary’, 12th International Conference on Coasts, Ports and Marine Structures, 31 Oct. - 2 Nov. 2016, Tehran, Iran
- 
- 2016 Kazeminezhad M, **Mazaheri S**, 2016, ‘Application of WAVEWATCH III model for Wave Forecasting in the Persian Gulf’, Application of WAVEWATCH III model for Wave Forecasting in the Persian Gulf, 9-14 Oct. 2016, The Netherlands
- 
- 2014 Hajivalie F, Khoshkholg J, **Mazaheri S**, 2014, ‘Three-Dimensional Modeling of Caspian Sea Currents Using FVCOM Model’, 11<sup>th</sup> International Conference on Hydrosience & Engineering, 28 Sept. - 2 Oct. 2014, Hamburg, Germany
- 
- 2012 Amirinia G, **Mazaheri S**, 2012, ‘Dynamic Response of Floating Wind Turbine Subjected to Wind, Wave and Current Loads in Chabahar Region in Oman Sea’, Forth International Conference on the Application of Physical Modeling to Port and Coastal Protection, 17-20 Sept. 2012, Ghent, Belgium
- 
- 2010 **Mazaheri S**, Rafiei-Shahraki J, Ghaderi Z, 2010, ‘Determining the Wave Spectrum Formula for The Persian Gulf’, 29<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, 6– 11 June, Shanghai, China
- 
- 2009 **Mazaheri S**, 2009, ‘The usage of Artificial Neural Networks in predicting the maximum mooring forces of SPM’, 28<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, 31 May – 5 June, Hawaii, USA
- 
- 2008 **Mazaheri S**, 2008, ‘Hydro Thermodynamic Modeling of an Outfall System Discharging into the Near Shore Area Considering the Environmental Conditions’, 27<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering, 15-20 June, Estoril, Portugal
- 
- 2008 **Mazaheri S**, 2008, Navigational Safety Aspects in Restricted Approach Channels and Waterways, International Conference on Safety and Operations in Canals and Waterways, 15-16 Sept. 2008, Glasgow, Scotland, UK
-