

Personal Information

Full name: Roozbeh Panahi
Birth: September 1980, Tehran, Iran
Nationality: Iranian
Address: Department of Civil and Environmental Engineering,
Tarbiat Modares University,
Jalal Al Ahmad Exp. Way,
Tehran, Iran.
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Education Background

- September 2006-
January 2010** **Ph.D. in Civil Engineering-Water Engineering**
Tarbiat Modares University, Tehran, Iran
Thesis: Development of a Numerical Algorithm for Marine Structures Hydrodynamic Simulation
Supervisor: Professor M. Shafieefar
Advisor: Professor A.A. Salehi N.
Highlights: Wave Generation, Finite Volume Method, Overlapping Mesh System, Fluid-Structure Interaction, Code Development
- September 2003-
January 2006** **M.S. in Naval Architecture-Ship Structure**
Sharif University of Technology, Tehran, Iran
Thesis: Ship Motions Simulation By Computational Fluid Dynamics
Supervisor: Professor M.S. Seif
Highlights: Two-phase flow, Finite Volume Method, Fluid-Structure Interaction, Moving Mesh, Code Development
- September 1998-
September 2003** **B.S. in Mechanical Engineering-Sea Engineering**
Sharif University of Technology, Tehran, Iran
Thesis: Design and Analysis of an Aqua Cage Using ANSYS Software
Supervisor: Assistant Professor M. Daghigh
Advisor: Professor M.S. Seif
Highlights: Mooring, Finite Element Method, Standards and Manuals
- June 1998** **High School Diploma in Mathematics and Physics**
Elites School of Imam Sadegh, Tehran, Iran

Professional Experience

Position

Main Activities

Head of Group

Marine Structures Group & Hydraulic Structures Group,
Faculty of Civil and Environmental Engineering,
Tarbiat Modares University, Tehran, Iran.
July 2017-present

Covering & following all executive tasks related to post graduate students i.e. education and research.

Adviser

Iran Marine Fund,
Ministry of Industry, Mine and Trade, Iran.
March 2015-present

Supporting:

- 1- Ship construction risk assessment projects.
- 2- Marine tourism development projects.
- 3- Small and medium-sized enterprises development plan.
- 4- International specialized fund establishment plan.

Head of Department

Maritime Transportation Department
Road, Housing & Urban Development Research Center.
Ministry of Road and Urban Development
Jan 2015-Jan2016

- Maritime transportation strategic planning.
- Technical consultation in marine structures design.
- Developing required rules and regulations.
- Project supervisor, "*Iran small commercial ports master plan*", Main employer: Port and Maritime Organization (PMO), Iran, August 2015- Jan 2016.
- Project supervisor, "*A comprehensive analysis of Rajaie port with respect to crisis management and passive defense requirements*", Main employer: Port and Maritime Organization (PMO), Iran, August 2015- Jan 2016.
- Project supervisor, "*A comprehensive analysis of Imam Port with respect to crisis management and passive defense requirements*", Main employer: Port and Maritime Organization (PMO), Iran, August 2015- Jan 2016.

Assistant Professor

Marine Structures Group,
Faculty of Civil and Environmental Engineering,
Tarbiat Modares University, Tehran, Iran.
June 2013-present

- Lecturing post graduate courses especially in marine/ coastal engineering.
- Supervising and advising postgraduate theses.
- Project planner and analyzer, "*Spectral analysis of Oman sea and strait of Hormuz field wave data*", Main employer: Port and Maritime Organization (PMO), Iran, August 2012- April 2014.
- Senior advisor of project at Pars Geometry Consulting Eng. Co., "*Iranian Shipbuilding and Offshore Industries Complex Company (ISOICO) master plan*", Main employer: Ministry of Industry, Mine and Trade, Iran, May 2013-May 2014.
- Senior advisor of project at Pars Geometry Consulting Eng. Co., "*Tonbak port development study*", March 2013-May 2013.
- Project manager, "*Assessment of shipbuilding industry development pattern*", Main employer: Iran Marine Fund, Ministry of Industry, Mine and Trade, Iran, March 2014-Febrary 2015.
- Senior advisor of project at Pars Geometry Consulting Eng. Co., "*Sina container terminal master plan*", Oct. 2014-Jan 2015.
- Project manager, "*Study of maritime equipment construction industry in Iran*", Main employer: Iran Marine Fund, Ministry of Industry, Mine and Trade, Iran, October 2015-March 2017.
- Director of vessel traffic discipline at Sazeh Pardazi Iran Consulting Eng.

Co., "*Eleven Iranian main commercial ports ten-years development plan*", Main employer: Port and Maritime Organization (PMO), Iran, Feb 2016-August 2016.

- Senior advisor, "*Iran small commercial ports master plan*", Main employer: Port and Maritime Organization (PMO), Iran, August 2016- present.

Adviser

Iran Marine Fund,
Ministry of Industry, Mine and Trade, Iran.
November 2011-February 2013

- Benchmarking assessment of marine industries.
- Capability assessment of marine industries.
- Developing supportive plans for marine industries.
- Auditing shipbuilding Industries.
- Planning and conducting research necessities of marine industry.

Assistant Professor

Department of Maritime Technology and Transportation,
Transportation Research Institute,
Iran University of Science and Technology,
Tehran, Iran.
January 2010- March 2013

- Marine transportation and infrastructure capability and benchmarking assessment.
- Project manager at Eman Taghato Consulting Eng. Co., "*Value engineering study of Rajaee port traffic plan*", Main employer, Port and Maritime Organization (PMO), Hormozgan Central Office, Iran, October 2012-May 2013.
- Coordinating and managing research projects mainly resulting in practical guidelines. Some of these projects are as below:
 - "*Effect of sloshing on LNG ship seakeeping*" in cooperation with Deylam Delta consulting engineers company, Tehran, Iran, 2010-2012.
 - "*A guideline for implementing floating breakwaters in Iran*" in cooperation with Tarbiat Modares University, Tehran, Iran, 2010-2012.

Research Associate

Department of Maritime Technology and Transportation,
Transportation Research Institute,
Iran University of Science and Technology,
Tehran, Iran.
February 2008-January 2010

- Coordinating and managing research projects mainly resulting in practical guidelines. Some of these projects are as below:
 - "*Effect of sea environment on ship motions in channels and basins*" in cooperation with Sharif University of Technology, Tehran, Iran, 2009-2012.
 - "*Study of oil pollution effects based on MARPOL convention-Field study*" in cooperation with Tehran University, Tehran, Iran, 2009-2011.
 - "*Determination of the minimum slip under ships when moving in restricted channels*" in cooperation with Amirkabir University of Technology, Tehran, Iran, 2009-2011.
 - "*An instruction for maintenance of marine environment parameters measurement instruments*" in cooperation with Iranian National Institute for Oceanography, Tehran, Iran, 2007-2010.
 - "*Optimized ships for cargo and passenger transportation in Persian gulf*" in cooperation with Sharif University of Technology, Tehran, Iran, 2007-2010.
 - "*An instruction for measurement of marine environment parameters*" in cooperation with Iran University of Technology, Tehran, Iran, 2007-2009.
 - "*Marine accidents analysis in Bandar-e-Abbas zone*" in cooperation with Amirkabir University of Technology, Tehran, Iran, 2007-2009.
 - "*Environmental assessment of ballast water discharge-Field study*" in cooperation with Iranian National Institute for Oceanography, Tehran, Iran, 2007-2009.

Project Manager

Pajooesh Gostar Yaarkar Consulting Engineers Company, Tehran, Iran.

January 2007-February 2008

- "Buoy design guideline for Persian gulf", Main employer: Transportation Research Institute.

Advisor

Center of Excellence in Marine Hydrodynamics, Sharif University of Technology, Tehran, Iran.

January 2006-February 2008

- Studying, identifying and solving ship building industry challenges based on:
 - Physical modeling in marine hydrodynamics.
 - Numerical modeling; especially CFD models; in marine hydrodynamics.
 - Developing state of the art as well as practical software.

Research Assistant

Center of Excellence in Marine Hydrodynamics, Sharif University of Technology, Tehran, Iran.

October 2004-January 2006

- Developing of software for hydrodynamic simulation of high speed marine crafts as a team member.
- Developing a strategic plan for marine industries of Iran as a team member.
- Physical modeling in marine hydrodynamics.

Teaching Experiences

Workshop***Place and Date***

Basic Port Design	Port and Maritime Organization (PMO), Tehran, Iran Port and Maritime Organization (PMO)- Hormozgan Province Central Office, Bandar-e-Abbas, Iran.	Apr 2009, Nov 2013
Value Engineering in Marine Industries	12 th Marine industries Conference, Zibakenar, Iran. Port and Maritime Organization (PMO)- Hormozgan Province Central Office, Bandar-e-Abbas, Iran. 4 th Offshore Industries Conference, Sharif University of Technology, Tehran, Iran. Center of Excellence in Marine Hydrodynamics, Sharif University of Technology, Tehran, Iran.	Oct 2010, Jan 2011, May 2011, Summer 2012
How to Write a Paper?	Iranian Society of Transportation Engineering, Tehran, Iran.	Feb 2011, March 2012
Practical Hydrodynamics	Center of Excellence in Marine Hydrodynamics, Sharif University of Technology, Tehran, Iran.	Feb 2012

Post Graduate Course***Place and Date***

Advanced Engineering Mathematics	Tarbiat Modares University, Iran, TMU.	Fall 2013-present
Numerical Methods in Marine Engineering	Tarbiat Modares University, Iran, TMU.	Spring 2013- present
Design of Special Offshore Structures	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT. Tarbiat Modares University, Iran, TMU.	Fall 2011- Fall 2012 AUT, Spring 2014, Spring 2015, Spring 2017
Dynamics of Offshore Structures	Tarbiat Modares University, Iran, TMU.	Fall 2017
Ports Design	Tarbiat Modares University, Iran, TMU. Amirkabir University of Technology (Tehran Polytechnic),	Fall 2010 - Spring 2014 AUT, Fall 2012-present TMU

	Iran, AUT.	
Energy Management	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT.	Spring 2015
Innovation Management	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT.	Spring 2014
Value Engineering	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT. University of Tehran, Iran, UT.	Fall 2012- Fall 2015 AUT, Fall 2015 UT
Advanced Strategic Planning	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT.	Fall 2013- Fall 2014 AUT
Knowledge Management	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT.	Fall 2014
Multi Criteria Decision Making	Amirkabir University of Technology (Tehran Polytechnic), Iran, AUT.	Fall 2014

* Experience in Undergraduate courses like fluid mechanics, statics, mechanics of materials, structure analysis, differential equations, Mathematics.

Thesis Supervision

Supervisor

M.S. Thesis, "Hydrodynamic Assessment of a Floating Breakwater", Azad University, Mr. Shafiee.	2010-2012
M.S. Thesis, "Analysis of Bunkering Market in Persian Gulf and the role of Iran", Amirkabir University of Technology (Tehran Polytechnic), Mr. Khadiv.	2012-2014
M.S. Thesis, "Port Society System- A benchmark Assessment", Amirkabir University of Technology (Tehran Polytechnic).	2012-2014
M.S. Thesis, "Numerical Assessment of a Passive Controller of Vortex Induced Vibration in Marine Risers, Tarbiat Modares University, Mr. Kouhdasti.	2012-2014
M.S. Thesis, "Numerical Assessment of Point Wave Absorber", Tarbiat Modares University, Mrs. Amiri.	2013-2015
M.S. Thesis, "Numerical Assessment of paddle-type wave maker individually and in a farm", Tarbiat Modares University, Mr. Behzad.	Oct. 2014-Feb 2016
M.S. Thesis, "Application of Submerged breakwaters in harbour protection; A Case Study of Dayyer Port", Tarbiat Modares University, Mr. Nobakhti.	2015-present
M.S. Thesis, "Traffic simulation based ship collision risk assessment using AIS data", Tarbiat Modares University, Mr. Filom.	2015-Dec.2016
M.S. Thesis, "Tidal Turbines array optimization using numerical methods", Tarbiat Modares University, Mr. Radfar.	2015- Aug.2016
M.S. Thesis, "Development of a new double-peak spectrum for Makran region", Tarbiat Modares University, Mr. Golpira.	2016-present
M.S. Thesis, "Quantitative risk assessment of ship grounding in one area in Persian gulf coasts", Tarbiat Modares University, Mr. Allahmoradi.	2016-present
M.S. Thesis, "Optimization of a container storage yard based on simulation", Tarbiat Modares University, Mr. Moghaddam.	2016-present
M.S. Thesis, "Quantitative risk assessment of non-conventional ship grounding and Collision in one area in Persian gulf coasts", Tarbiat Modares University, Mr. Edraki.	Oct. 2017- present
M.S. Thesis, " ", Tarbiat Modares University Mr. Saadati.	Oct. 2017- present

Advisor

Ph.D. Thesis, "A Numerical Algorithm to Simulate a Piston-Type Wavemaker", Ferdowsi University.	2010-2012
M.S. Thesis, "Simulation of Local Scouring at Bridge Piles", Azad University.	2010-2012
M.S. Thesis, "Optimization of a Reef Breakwaters Shape with respect to wave overtopping", Azad University.	2011-2013
M.S. Thesis, "Spectral Spectrum Analysis of Oman Sea Field Wave Data", Tarbiat Modares University, Mr. Gharangian.	2012-2014
M.S. Thesis, "Spectral Analysis of Persian Gulf Field Wave Data", Tarbiat Modares University, Mr. Parsapour.	2012-2014
Ph.D. Thesis, "Development of 3D Numerical Wave Tank", Tarbiat Modares University, Mr. Mahmoudi.	2012- March2017
M.S. Thesis, "Numerical Simulation of Spatially Varied Flow in Channel with sharp trapezoidal Side -Weir", Tarbiat Modares University, Mr. Rami.	2013-2014
M.S. Thesis "Numerical assessment of crown effect on Hydraulic conductivity in Congressional Weir with Trapezoidal Plan", Tarbiat Modares University, Mr. Gholizadeh.	2013-2015
M.S. Thesis, "Numerical Simulation of Armour type and Arrangement in overtopping of Rubble-Mound Breakwaters", Tarbiat Modares University, Mr. Ghasemi.	2013-2014
M.S. Thesis, "Assessment of Strait of Hormuz and Oman Sea Field Wave Data Using Data Mining Techniques", Tarbiat Modares University, Mr. Rezaie A.	2013-2014
M.S. Thesis, "Numerical analysis of flow parameters affecting cavitation at tunnel spillway, Tarbiat Modares University, Mr. Niknami.	2014- Feb. 24, 2016
M.S. Thesis, "Numerical assessment of parameters responsible for floating mass motions in reservoir", Tarbiat Modares University, Mr. Shakeri.	Jan. 2017- present

Awards and Honors

October 2013	Distinguished Paper Entitled "Assessment of Chabahar Field Wave Data", 15 th Marine industries Conference, Kish Island, Iran.
November 2011	Distinguished Paper of the 13 th Marine Industries Conference Entitled "Estimation of Ship Squat in Shallow Water Based on Model Test Results", 13 th Marine industries Conference, Kish Island, Iran.
October 2010	Distinguished Paper of the 12 th Marine Industries Conference Entitled "Mathematical Model of Sloshing in A 2D Rectangle and Its Interaction with Ship Motions", 12 th Marine industries Conference, Zibakenar, Iran.
November 2009	Distinguished Paper of the 11 th Marine Industries Conference Entitled "Analytical Wave Generation Using CFD", Kish Island, Iran.
November 2006	Distinguished Paper of the 8 th Marine Industries Conference Entitled "Numerical Simulation of Hydrodynamics Tests-Formulation and Validation", Bushehr, Iran.
November 2006	Iran's Distinguished M.S. Thesis in Marine Engineering in 2006; Selected by Iranian Association of Naval Architecture and Marine Engineering (IRANAME) in 8 th Marine Industries Conference, Bushehr, Iran.
May 2006	Iran's Distinguished M.S. Thesis in Mechanical Engineering in 2006; Selected by Iranian Society of Mechanical Engineers (ISME) in 14 th Annual (International) Mechanical Engineering (ISME) Conference, Isfahan University of Technology, Isfahan, Iran.

December 2006 1st rank at the year of graduation, M.S. in Naval Architecture-Ship Structure, Sharif University of Technology, Tehran, Iran

Contribution in Journals and Conferences

Jan 2016 Chair of Scientific Committee of "2nd International Conference on Value Engineering and Cost management", Tarbiat Modares University.

Nov 30 2014 Chair of Scientific Committee of "1st National Conference on Value Engineering and Cost management", University of Tehran.

Since May 2013 Reviewer of "National Congress on Civil Engineering" of Iran since 7th conference.

Since February 2013 Reviewer of the journal of "The Modares Journal of Civil Engineering", Tarbiat Modares University, Iran (English-Persian).

February 2013 Reviewer of "1st National Conference on Transportation Infrastructures", Tehran, Iran.

Since July 2012 Scientific Editor of the "Iranian Journal of Marine Science And Technology", Iranian Society of Marine Science and Technology, Iran.

Since May 2012 Reviewer of "International Congress on Civil Engineering" of Iran since 9th conference.

Since November 2011 Reviewer of the "Journal of Hydraulics", Iranian Hydraulic Association, Iran.

November 2011 Member of Executive Committee of 13th Marine Industries Conference, Kish Island, Iran.

Since Summer 2011 Scientific Editor of the "International Journal of Marine Technology", Iranian Association of Naval Architecture and Marine Engineering, Iran. (In Persian)

Since Summer 2011 Scientific Editor of the "Journal of Marine Engineering", Iranian Association of Naval Architecture and Marine Engineering, Iran. (In English)

Since January 2011 Reviewer of the journal of "International Journal of Maritime Technology", Iranian Association of Naval Architecture and Marine Engineering, Iran. (In English)

Since January 2011 Reviewer of the journal of "World Applied Science Journal", Noshirvani University of Technology, Babol, Iran.

Since 2010 Reviewer of the "Iranian Journal of Marine Science And Technology ", Iranian Society of Marine Science and Technology, Iran.

Since August 2010 Reviewer of the journal of "Marine Engineering", Iranian Association of Naval Architecture and Marine Engineering, Iran

Since 2010 Reviewer of the ISI journal of "Scientia Iranica", Sharif University of Technology, Iran. (In English)

Since 2010 Reviewer of the ISI journal of "Progress in Computational Fluid Dynamics", Inderscience Publishers. (In English)

- Since November 2010** Reviewer of "Iranian Hydraulics Conference" since 9th conference.
- November 2010** Member of Executive Committee of 12th Marine Industries Conference, Zibakenar, Iran.
- Since November 2008** Reviewer of "Marine Industries Conference" of Iran since 10th conference.

List of Publications

a) Book

1. *An Introduction to ANSYS and Finite Element Method*, Translated by: Mohebbi, M., Panahi, R., 448 pp., Naghoos Pub., Iran, 2002 (In Persian).
2. *Marine Accident Analysis with Special Attention to the Bandar Abbas Region*, Zeraatgar, H., Panahi, R., 503 pp., Transportation Research Institute, Iran, 2011 (In Persian).
3. *Commercial Development of Regional Ports as Logistic Centers*, Translated by: Panahi, R., Kashefzadeh. F., 143 pp., Pars Geometry consultants, Iran, 2014 (In Persian).
4. *Shipbuilding industry development: Vol.1-World market and industry development review in distinguished countries*, Panahi, R., Horufi E.B., 174 pp., Iran Marine Fund, 2015.
5. *Shipbuilding industry development: Vol.2- New players' development path and industry performance (Brazil, Turkey, Singapore, Vietnam, India)*, Panahi, R., Aghajani, S., Mohajeri, M.J., 150 pp., Iran Marine Fund, 2015.
6. *Shipbuilding industry development: Vol.3- Current situation of Iran and lessons learned from industry players*, Panahi, R., Horufi, B., Zare, M., Fakhri, S., 80 pp., Iran Marine Fund, 2015.

b) International ISI Journal Paper

7. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Comparison of interface capturing methods in two phase flow*, Iranian Journal of Science & Technology, Transaction B: Technology, 29(B6):539-548, 2005.
8. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Development of a VoF-fractional step solver for floating body motions simulation*, Applied Ocean Research, 28:171-181, 2006.
9. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Numerical simulation of three-dimensional interfacial flows*, International Journal of Numerical Methods for Heat & Fluid Flow, 17(4):384-404, 2007.
10. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Towards simulation of 3D nonlinear high-speed vessels motion*, Ocean Engineering, 36:256-265, 2009.
11. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Catamaran motion simulation based on moving grid technique*, Journal of Marine Science and Technology, 17(2):128-136, 2009.
12. Seif, M.S., Jahanbakhsh, E., Panahi, R., Karimi, M.H., *A unified computational method for simulating dynamic behavior of planing vessels*, China Ocean Engineering, 23(2):1-10, 2009.
13. Panahi, R., Shafieefar, M., *Application of overlapping mesh in numerical hydrodynamics*, Polish Maritime Research, Vol.16, 2(60):24-33, 2009.
14. Panahi, R., Shafieefar, M., *A finite volume algorithm for simulation of hydrodynamic problems based on overlapping mesh*, Journal of Marine Science and Application, 8:281-289, 2009.

15. Panahi, R., Shafieefar, M., *Towards a numerical hydrodynamics laboratory by developing an overlapping mesh solver based on a moving mesh solver; verification and application*, Applied Ocean Research,32(3): 308-320, 2010.
16. Panahi, R., *Simulation of water-entry and water-exit problems using a moving mesh algorithm*, Journal of Theoretical and Applied Mechanics, Vol.42, No. 2, 2012.
17. Panahi, R., Ghasemi K., A., Shafieefar, M., *Development of a bi-modal directional spectrum*, Ocean Engineering, 105:104-111, 2015.
18. Kafaei, M., Panahi, R., Ranjbar, G.A., *Passive defense requirements weighting in selecting new ports location based on analytical hierarchy process*, International Geoinformatics Research and Development Journal, 6(2): 19-32, June 2015.
19. Gharangian, R.,Shafieefar, M., Panahi, R., *An appropriate unidirectional wave spectrum model for the Strait of Hormuz*, Journal of Marine Science and Application, No.14(3): 261-269, 2015.
20. Amiri, A., Panahi, R., Radfar, S., *Parametric Study of Two-Body Floating-Point Wave Absorber*, Journal of Marine Science and Application, 15: 41-49, 2016.
21. Panahi, R., Shafieefar, M., Ghasemi, A., *A new method for calibration of unidirectional double-peak Spectra*, Journal of Marine Science and Technology, 21:167-178, 2016.
22. Mahmoudi M., A., Shafieefar, M., Panahi, R., *Development of a high-order level set method: Compact Conservative Level Set (CCLS)*, Computers and Fluids 129:79-90, 2016.
23. Behzad, H., Panahi, R., *Optimization of bottom-hinged flap-type wave energy converter for a specific wave rose*, Journal of Marine Science and Application, 16(2):159-165, June 2017, DOI:10.1007/s11804-017-1405-y.
24. Sadathosseini, A., Radfar, S., Panahi, R., *Developing new formulae for prediction of mean overtopping discharge at vertical walls*, Journal of Marine Science and Technology, 22(4): 414-425, Sept.2017, DOI: 10.1007/s00773-016-0421-y.
25. Radfar, S., Panahi, R., Javaherchi, T., Filom, S., Rezaee M., A., *A comprehensive insight into tidal stream energy farms in Iran*, Renewable and Sustainable Energy Reviews, 79:323-338, November 2017, DOI: 10.1016/j.rser.2017.05.037.

c) International Peer-Reviewed Conference Paper

26. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Numerical simulation of floating body*, 14th Annual (International) Mechanical Eng. Conf (ISME06), Isfahan, Iran, 2006(In Persian).
27. Panahi, R., Jahanbakhsh, E., Seif, M.S., Shafieefar, M., *Numerical Simulation of Sloshing and an Investigation on the effect of baffle arrangement*, 15th Annual (International) Mechanical Eng. Conf (ISME07), Tehran, Iran, 2007(In Persian).
28. Javanmardi, M.R., Panahi, R., Jahanbakhsh, E., Seif, M.S., *Trimaran Resistance calculation*, 15th Annual (International) Mechanical Eng. Conf (ISME07), Tehran, Iran, 2007(In Persian).
29. Panahi, R., Hasannejad, M., Jahanbakhsh, E., Shafieefar, M., Seif, M.S., *Slamming simulation using finite volume discretisation*, 16th Annual (International) Mechanical Eng. Conf (ISME07), Kerman, Iran, 2008(In Persian).

30. Panahi, R., Shafieefar, M., Seif, M.S., *Hydrodynamic assessment of fixed and/or fleet marine structures by developing software*, 8th International Conference on Coasts, Ports, and Marine Structures (ICOPMAS), Tehran, Iran, November 2008(In Persian).
31. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Multi-dimensional free surface flow simulation using two-phase Navier-Stokes solver*, 8th Numerical Towing Tank Symposium (NuTTs), Varna, Bulgaria, Oct. 2-4, 2005.
32. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Effect of interpolation in interface capturing methods*, 8th Numerical Towing Tank Symposium (NuTTs), Varna, Bulgaria, Oct. 2-4, 2005.
33. Panahi, R., Seif, M.S., *Ship performance evaluation in sea waves*, 13th Annual International Mechanical Engineering (ISME) Conference, Isfahan University of Technology, Isfahan, Iran, May 2005.
34. Panahi, R., Seif, M.S., *Significance of human factors in ship design evaluation*, 1st International Conference on Design Engineering and Science (ICDES2005), Vienna, Austria, Oct.28-31, 2005.
35. Panahi, R., Seif, M.S., *Analysis of ship motions in waves*, 16th International Conference on Hydrodynamics in Ship Design and 3rd International Symposium on Ship Maneuvering (HYDMAN05), Gdansk, Poland, Sept., 2005.
36. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Development of a numerical hydrodynamic tank for ship motion simulation*, ECCOMAS CFD 2006, Egmond aan Zee, Netherlands, Sept. 5-8, 2006.
37. Panahi, R., Jahanbakhsh, E., Seif, M.S., *Numerical investigation on the effect of baffle arrangement in tanker sloshing*, 9th Numerical Towing Tank Symposium (NuTTs), Nantes, France, Oct. 1-3, 2006.
38. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Ship dynamic simulation, based on a three-dimensional viscous Free surface solver*, 9th Numerical Towing Tank Symposium (NuTTs), Nantes, France, Oct. 1-3, 2006.
39. Panahi, R., Jahanbakhsh, E., Seif, M.S., *High-speed planing catamaran resistance simulation, based on a three-dimensional viscous free surface flow solver*, 10th Numerical Towing Tank Symposium (NuTTs), Hamburg, Germany, Sept. 23-25, 2007.
40. Jahanbakhsh, E., Panahi, R., Seif, M.S., *High speed catamaran maneuvering simulation, based on a three-dimensional viscous free surface flow solver*, 9th Int. Conf. of Russian Shipbuilding and Shipping, Port Activities and Offshore Developments, NEVA, Saint-Petersburg, Russia, Sept. 25-26, 2007.
41. Panahi, R., Salehi N., A.A., Shafieefar, M., *Modification of PISO using SIMPLEC*, 16th Annual (International) Mechanical Engineering (ISME) Conference, Kerman, Iran, May, 2008.
42. Panahi, R., Shafieefar, M., *Technical comparison of motion simulation strategies in finite volume simulation of marine structures hydrodynamics*, 8th International Conference on Coasts, Ports and Marine Structures (ICOPMAS), Tehran, Iran, November 2008.
43. Jahanbakhsh, E., Panahi, R., Seif, M.S., *Development of a numerical tool for hydrodynamics simulation of high speed planing crafts*, 6th International Conference on High-Performance Marine Vehicles (HIPER), Naples, Italy, September 18-19, 2008.
44. Panahi, R., *Simple development of a 2D Chimera mesh algorithm*, 18th Annual (International) Mechanical Engineering (ISME) Conference, Sharif University of Technology, Tehran, Iran, 11-13 May, 2010.
45. Panahi, R., Shafieefar, M., *Using overlapping mesh system to develop a general wavemaker*, 13th Numerical Towing Tank Symposium (NuTTs), Duisburg, Germany, Oct. 10-12, 2010.

46. Panahi, R., Shafieefar, M., *2D simulation of a free-floating structure motions in waves of a flapping-type wavemaker*, 9thInternational Conference on Coasts, Ports and Marine Structures (ICOPMAS), Tehran, Iran, Nov. 29 - Dec. 1., 2010.
47. Panahi, R., Khademi, H., *Assessment of rules and regulations in approach channel design- case study: Rajae port*, 10thInternational Conference on Coasts, Ports and Marine Structures (ICOPMAS), Tehran, Iran, Nov. 19 - 21, 2012 (In Persian).
48. Kashfezadeh, F., Panahi, R., *Intelligent city development by means of renewable energy*, 2nd International Conference on Emerging Trends in Energy Conservation (ETEC), Feb 19-20, 2013 (In Persian).
49. Nasiraie, H., Panahi, R., *Energy extraction from vortex induced vibration*, 2nd International Conference on Emerging Trends in Energy Conservation (ETEC), Feb 19-20, 2013 (In Persian).
50. Alamdar, J., Panahi, R., *Assessment of conductor negligence in using value engineering*, The 4th International Conference of construction & Energy industry, Tehran, 20-21 Jan, 2014.
51. Panahi, R., Shafieefar, M., Ghasemi, A., Allahyar, M.R., Nemati, M.H., Shoushtarizadeh N., A., *A bio-modal directional wave spectrum for coastal regions around Chabahar bay*, 11th International Conference on Coasts, Ports and Marine Structures (ICOPMAS), Tehran, Iran, Nov. 24 - 26, 2014.
52. Amiri, A., Panahi, R., *Application of AQWA-ANSYS in hydrodynamic assessment of point wave absorber*, 11th International Conference on Coasts, Ports and Marine Structures (ICOPMAS) , Tehran, Iran, Nov. 24 - 26, 2014.
53. Mohajeri, M.J., Salimi T., A., Panahi, R., *Simulation of cylinder water-entry implementing two different methods: FVM and SPH*, 11th International Conference on Coasts, Ports and Marine Structures (ICOPMAS) , Tehran, Iran, Nov. 24 - 26, 2014.
54. Kafaei, M., Panahi, R., Ranjbar, Gh., *Passive defense requirements weighing in selecting new port location based on AHP*, 11th International Conference on Coasts, Ports and Marine Structures (ICOPMAS) , Tehran, Iran, Nov. 24 - 26, 2014.
55. Amiri, A., Panahi, R., Behzad, H., *Frequency and time domain analysis of point wave absorber*, 6th International Offshore Industries Conference, Tehran, Iran, 4 and 5 May 2015 (In Persian).
56. Behzad, H., Panahi, R., Amiri, A., *Numerical assessment of paddle-type wave absorber using AQWA-ANSYS*, 6th International Offshore Industries Conference, Tehran, Iran, 4 and 5 May 2015 (In Persian).
57. Gharangian, R., Shafieefar, M., Panahi, R., *Development of An Unidirectional Wave Spectrum Model For The Waves Climate Of Hurmoz Strait Area*, Tehran, 6th International Offshore Industries Conference, Tehran, Iran, 4 and 5 May 2015.
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