

Reza Taghipour

Contact Information Center for Ships and Ocean Structures–CeSOS Office: +47-73 59 51 73
Otto Niensens Veg.10 Fax: +47-73 59 55 28
Trondheim, 7491 Norway E-mail: reza@ntnu.no
Homepage: www.cesos.ntnu.no/~reza

Personal Information Full Name: Reza Taghipour Paekoulai
Date of Birth: 15th September 1979

Fields of Specialty Fluid–Structure Interactions (Hydroelasticity), Dynamic Response Analysis of Marine Structures, Boundary Element Method, Finite Element Method, Wave Mechanics, Random Vibrations, Flexible and Multi-body Offshore Structures, VLFS, Wave Energy Converters.

Education **Ph.D. Candidate, Marine Structures (Aug.2004–Oct.2008)**
Institution: Center for Ships and Ocean Structures–CeSOS, Norway
Supervisor: Prof. Torgeir Moan
Topic: Efficient Prediction of Dynamic Response for Flexible and Multi-Body Marine Structures

M.Sc., Ship Hydromechanics (Oct.2001–Feb.2004)
Institution: Sharif University of Technology, Iran
Supervisor: Prof. Manoochehr Rad
Topic: Parametric seakeeping analysis for a tourist submarine

B.Sc., Marine Structures (Oct.1997–Jun.2001)
Institution: Sharif University of Technology, Iran
Topic: Mooring System design and analysis for Urmia lake floating bridge

Diploma, Applied Science (Oct.1993–Jun.1997)
Institution: National Organization for Developing Exceptional Talents–NODET, Iran

Honors and Awards 2004, Granted PhD Fellowship, CeSOS, Norway
2004, Granted Assistantship, West Virginia University, WV, USA
2004, Granted Japanese Government (Monbukagakusho) Scholarship
2001, Awarded for one of the best B.Sc. dissertations at the 3rd National Conference of Naval Architects and Marine Engineers
2001, Ranked 12th among 156 participants at national entrance exam for graduate studies in Mechanical Engineering/Naval Architecture of Sharif University of Technology
1997, Ranked 684th among 1.5 million participants in national entrance exam for undergraduate studies
1994, Ranked 2nd at interstate scientific examinations.

Work Experience Dec 2008-Now: Project Engineer, AMOG Consulting, Engineering Design and Analysis, project management and quality control of engineering documents regarding ships and offshore structures.

Spring 2003-Summer 2004: Mechanical/Marine Engineer, Pargasiran Co. Engineering design, project management and quality control for construction of ships, offshore and oil and gas structures.

Spring 2000-Summer 2001: Mechanical Engineer, Farnaas National Project, machine design, design optimization and simulation.

Winter 2000: Animation Designer, Aero-2000 Conference Team, Sharif U of Tech. Simulation.

Summer 99: Summer Job, Sadra Co., Neka Site: WPS and QC in Engineering.

Academic Experience

Fall 2004-Aug 2008: Graduate Student, CeSOS, Includes current Ph.D. research, Ph.D. and Masters level course work, and collaborative research projects and one year work as a research fellow.

Invited lecture sessions

Fall Semester 2007 and 2008: 2 hours, "Hydroelasticity and VLFS", Supervisor: Carl Martin Larsen/Bjørnar Pettersen.

Spring Semester 2008: 4 hours, "Frequency- viz time-domain models for dynamic response analysis of marine structures", Supervisor: Torgeir Moan.

Graded Ph.D. Course work

Name	Number	Lecturer	Grade
Sealloads	TMR4215	Walter Lian	A
Finite Element Analysis	TMR4190	Bernt J. Leira	A
Hydrodynamic Aspects of Marine Structures (Hydro I)	TMR4215	Odd. M. Faltinsen	B
Hydroelasticity		Rong Zhao	A
Advanced Topics in Structural Modeling and Analysis	MR8205	Torgeir Moan	A
Stochastic Theory of Sealloads	TMR4235	Dag Myrhaug	A
Stochastic Methods applied in the Analysis of Marine Structures	MR8207	Torgeir Moan	A

Summer 2002-Summer 2003: Research Assistant, Sharif University of Technology, Naval Architecture and Marine Engineering Laboratory

Fall 2002-Spring 2003: Research Assistant, SharifCE Middle-Size Soccer Robot Team. Design and manufacturing for a group of fully autonomous soccer player robots for RoboCup03 competitions, Padua, Italy.

Fall 2001-Summer 2002: Research Assistant, Sharif CESR Small Size Soccer Robot Team: Machine Design, Design Optimization, Manufacturing for a group of fully autonomous soccer player robots for RoboCup02 competitions, Fukuoka, Japan.

Summer 2000: Research Assistant, Marine Engineering and Naval Architecture Laboratory, Sharif University of Technology. Model Design, Manufacturing and testing.

Fall 99-Fall 2000: Animation Designer, Simulation Engineer, Mobile Robot Nurse Project, Sharif University of Technology, Iran.

Publications

1. Taghipour, R, Arswendy, A, and Moan, T, (2009) "Comparative Study of Wave Load Effects for Two Multi-Body Wave Energy Converter Concepts", 28th International Conference on Offshore Mechanics and Arctic Engineering, Honolulu, Hawaii, USA.
2. Taghipour, R, Arswendy, A, Devergez, M, and Moan, T, (2008) "Structural Analysis of a Multi-body Wave Energy Converter in the Frequency Domain by Interfacing WAMIT and ABAQUS", 27th International Conference on Offshore Mechanics and Arctic Engineering, Es-

toril, Portugal.

3. Taghipour, R, and Moan, T, (2008), "Efficient Frequency-Domain Analysis of Dynamic Response for the Multi-Body Wave Energy Converter in Multi-Directional Waves", 18th International Offshore and Polar Engineering Conference–ISOPE, Vancouver, British Columbia, Canada.
4. Taghipour, R, Perez, T, and Moan, T, (2007) "Hybrid Frequency-Time domain Models for Dynamic Response Analysis of Marine Structures", *Ocean Engineering*.
5. Taghipour, R, Perez, T, and Moan, T, (2007), "Time Domain Hydroelastic Analysis of a Flexible Marine Structure Using State-Space Models", *Journal of Offshore Mechanics and Arctic Engineering*.
6. Taghipour, R, Perez, T, and Moan, T, (2007), Time Domain Hydroelastic Analysis of a Flexible Marine Structure Using State-Space Models, 26th International Conference on Offshore Mechanics and Arctic Engineering, San Diego, California, USA.
7. Hals, J, Taghipour, R, and Moan, T, (2007) "Dynamics of A Force-Compensated Two-Body Wave Energy Converter In Heave With Hydraulic Power Take-Off Subject To Phase Control", The 7th European Wave and Tidal Energy Conference, Porto, Portugal.
8. Contribution to Chapter 3 (Loads and Load Effects) of the book titled "FPSO Design and Analysis" by Torgeir Moan.
9. Taghipour, R, Fu, S, and Moan, T, (2006) , "Validated two and three dimensional linear hydroelastic analysis using standard software", 16th Int. Offshore and Polar Engineering Conference, San Francisco, California, USA.
10. Seif, MS, Paein Koulaei, RT, (2005), "Floating Bridge Modeling and Analysis", *Scientia Iranica*, Vol. 12, No. 2, pp. 199-206.
11. Paein Koulaei, RT, Rad M, (2004), "Parametric Study of Operability For A Tourist Submarine", 24th International Conference on Offshore Mechanics and Arctic Engineering, Vancouver, British Columbia, Canada.
12. Daghigh, M, Paein Koulaei, RT, Seif, MS, (2002), "Mooring System Design and Analysis For the Floating Bridge of Urmia Lake", 21st International Conference on Offshore Mechanics and Arctic Engineering, Oslo, Norway.
13. Behzad, M, Shamsaee, N, Danesh Sararoudi, M, Paein Koulaei, RT, (2002), Effects of Shear Terms on Static Stiffness and Dynamic Response of Tee Joints, 6th Biennial Conference on Engineering Systems Design and Analysis, Istanbul, Turkey.
14. Manzouri, MT, Karimian, P, Paein Koulaei, RT, Motamed, M, Mottaghi, R, Sabzmejdani, P, (2002), "Sharif CESR Small-Size team description for RoboCup 2002", Robot Soccer World Cup V, Springer.

Computer Skills

- Hydrodynamic Software: WAMIT, AQWA, MOSES, ARIANE.
- Structural Packages: ABAQUS.
- Simulation Packages: Matlab/Simulink.
- Animation Software: 3D Studio Max.
- Languages: C, Pascal, Visual Fortran, Visual Basic.
- Applications: Microsoft Office Applications, OpenOffice Applications. L^AT_EX, Maple.

- CAD Software: AutoCAD, Mechanical Desktop, AutoDesk Inventor.

**Language
Proficiency**

Persian: Mother Tongue.

English: Fluent.

TOEFL CBT 243, GRE: 1770 (Verbal.410, Quantitative.770, Analytical.590).

German: Good.

Norwegian: Good.