

# Abbas Dashtimanesh

## Permanent Address

Khajeha  
Daneshjou street,  
Boushehr, Iran  
Postal Code:  
Cell : +98-917-1743364  
Date of Birth: October 8, 1984  
Place of Birth: Khormuj-Iran  
Email: [a.dashtimanesh@aut.ac.ir](mailto:a.dashtimanesh@aut.ac.ir), [a.dashtimanesh@pgu.ac.ir](mailto:a.dashtimanesh@pgu.ac.ir)

## School Address

**Persian Gulf University**  
Khajeha, Daneshgah Avenue  
Boushehr, Iran  
Phone: +98(771) 4222010  
Fax: +98(771)4540376  
Web site: <http://www.pgu.ac.ir>

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2002-2006: **B.Sc.** degree of Naval Architect and Ocean Engineering, Persian Gulf University (PGU), Boushehr, Iran.

**Thesis:** "A Study on Propulsion System of Hovercraft"

2006-2008: **M.Sc.** degree of Marine Hydromechanics, Amirkabir University of Technology (Tehran Poly-Technique), Tehran, Iran.

**Thesis:** "Manoeuvring Analysis of Planing Monohull Using Boundary Element Method"

2009-2013: **Ph.D.** degree of Hydromechanics, Amirkabir University of Technology (Tehran PolyTechnique), Tehran, Iran.

**Thesis:** "Three Dimensional Simulation of Transom Stern Flow of Planing hulls Using SPH Method"

## Special Research Interests

- ❖ Implementation of Numerical Methods in Hydrodynamics Phenomena
- ❖ Ocean Energy Conversion
- ❖ Modeling of Free Surface Flow
- ❖ Water Impact Problem
- ❖ Planing Hull Motions and Design
- ❖ Hydrodynamics of Marine Vehicles

## Work and Teaching Experience

- Research assistance of Dr.Zeraatgar in the High Speed Craft's Groupe, Amirkabir University of Technology, Tehran, Iran, 2006-2007.
- Research assistance of Dr.Ghadimi in the High Speed Craft's Groupe, Amirkabir University of Technology, Tehran, Iran, 2009-2013.

- Lecturer at Amirkabir University of Technology, Tehran, Iran, 2009-2013.
  - Assistant Professor at Persian Gulf University of Booshehr, Iran, 2014 till now.
  - Advisor of seven BSc and seven MSc students.
  - Advisor of two PhD students
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### Grant and Funded Projects

- Reduction of transom Stern Wave by Modifying Planing Hull Bottom
  - Simulation of Planing Hull Motions in Regular and Irregular Waves
  - Re-Evaluation of Conceptual Design Phase of Planing Craft Design
  - Full Scale Measurement of Planing Craft Dynamics
  - Design of Two Stepped Planing Hull
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### Honors and Awards

- Member of Brilliant Talent of Amirkabir University of Tehcnology
  - Member of National Elite Foundation of Iran
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### Some of Refereed Journal Publications

1. **A. Dashtimanesh**, M. Farsi, S. Najafi, Investigation of Free Surface Flow Generated by a Planing Flat Plate Using Smoothed Particle Hydrodynamics Method and Flow3D Simulations, Journal of Engineering for the Maritime Environment (Accepted 2012).
2. **A. Dashtimanesh**, A Three Dimensional SPH Model for Detail Study of Free Surface Deformation Just Behind a Rectangular Planing Hull, Brazilian Journal of Mechanical Science and Technology, (Accepted 2013).
3. **A. Dashtimanesh** and H. Hosseinzadeh, Solution of Poisson's Equation by Analytical **Boundary Element** Integration. Applied Mathematics and Computation, Vol. 217, 2010, 152–163.
4. **A. Dashtimanesh**, Solution of 2D Navier-Stokes Equation by Coupled Finite Difference-Dual Reciprocity Boundary Element Method, Applied Mathematical Modelling, Vol. 35, Issue 5, 2011, 2110–2121.
5. **A. Dashtimanesh**, R. Djeddi, Study of water entry of circular cylinder by using analytical and numerical solution, Brazilian Journal of Mechanical Science and Technology, (Accepted 2011).
6. M. Farsi, **A. Dashtimanesh**, Study of Various Numerical Aspects of 3D-SPH for simulation of the Dam Break Problem, Brazilian Journal of Mechanical Science and Technology, (Accepted 2012).
7. M. Yousefi, **A. Dashtimanesh**, , Application of an iterative high order difference scheme along with an explicit system solver for solution of stream function-vorticity form of Navier-Stokes equations, Journal of Fluid Engineering, 2013.
8. **A. Dashtimanesh**, Simulation of Free Surface Flow by Using SPH Method and a Comparison Study on Two Different Smoothing Functions, International Journal of Fluid Mechanics Research, Vol. 39, 2012.
9. S. Abtahi, **A. Dashtimanesh**, Numerical Simulation of Solitary Waves by SPH Method and Parametric Studies on the Effect of Wave Height to Water Depth Ratio, International Journal of Engineering & Technology, Vol 1, No 4 (2012).
10. A. Saadatkhah, **A. Dashtimanesh**, Analytical Solution of Wedge Water Entry by Using Schwartz-Christoffel Conformal Mapping, International Journal of Modeling, Simulation and Scientific Computing, Vol. 2 , NO.3 , 337-354 , 2011.
11. F. Habashi Aliabadi, S.R. Djeddi, **A. Dashtimanesh**, 2-D Numerical Wave Tank by Boundary Element Method Using Different Numerical Techniques, Global Journal of Mathematical Analysis, Vol 1, No 1 (2013).

12. A.Loni, H. Norouzi, **A.Dashtimanesh**, Developing a computer program for mathematical investigation of stepped planing hull characteristics, International Journal of Physical Research, 1 (2) (2013) 34-47.
  13. **A. Dashtimanesh**, A. Feizi Chekab, A Numerical Investigation of the Water Impact of an Arbitrary Bow Section, Journal of Hydraulic Research, Accepted (2013).
  14. **A. Dashtimanesh**, Feizi Chekab, Introducing a New Flap Form to Reduce the Transom Waves Using a 3-D Numerical Analysis, Int. J. Computational Science and Engineering, Vol. X, No. Y, 200X.
  15. **A. Dashtimanesh**, Considering artificial viscosity in a SPH model for simulation of transom waves, International Journal of Physical Research, 1 (1) (2013) 12-20.
  16. R. Shademani, R. Zamanian, **A. Dashtimanesh**, Assessment of Air Flow over an Equilateral Triangular Obstacle in a Horizontal Channel Using FVM, Journal of Mathematical Sciences and Applications. 2013 1 (1).
  17. M. Farsi, R. Zamanian, **A. Dashtimanesh**, Simulation of wedge water entry using smoothed particle hydrodynamics method, International Journal of Scientific World, 1 (1) (2013) 5-12.
  18. H. Mirhosseini, **A. Dashtimanesh**, M. Amini, RANS Simulation of Dynamic Trim and Sinkage of a Planing Hull, Applied Mathematics and Physics, 2013, Vol. 1, No. 1, 6-10.
  19. S. Tavakoli, **A. Dashtimanesh**, S.R. Djeddi, Mathematical modeling of longitudinal dynamic pressure distribution on planing hulls, Global Journal of Mathematical Analysis, 1 (2) (2013) 53-65.
  20. S. Tavakoli, **A. Dashtimanesh** and S.R. Djeddi, "Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls", Journal of Computational Engineering, 2013 (Accepted).
  21. **A. Dashtimanesh**, S.R. Djeddi, Development of a Mathematical Model for Simultaneous Heave, Pitch and Roll Motions of Planing Vessel in Regular Waves, Research Journal of Computation and Mathematics, 2013 (Accepted).
  22. **A. Dashtimanesh**, Initiating a Mathematical Model for Prediction of 6-DOF Motion of *Planing Crafts* in Regular Waves, International Journal of Engineering Mathematics, 2013, (Accepted).
  23. **A. Dashtimanesh**, "Solution of Boundary Layer Equations by Thwaities-Walz and Finite Difference Methods", Iranian Journal of Marine Science And Technology, Vol.0 , NO.52, 2010.
  24. M. H. Oloumi Yazdi, **A. Dashtimanesh** , Numerical Simulation of the Incompressible Laminar Flow over a Square Cylinder", Iranian Journal of marine Science and Technology, Vol.0, NO.55, 2010.
  25. **A. Dashtimanesh**, R. Zamanian, Solution of Steady Unidirectional Viscous Fluid Flow in a circular section by Galerkin Vector Method, Iranian Journal of Marine Science And Technology, (Accepted 2010).
  26. S. Abtahi, **A. Dashtimanesh**, Numerical Simulation of Solitary Waves By Smoothed Particle Hydrodynamics Method, Iranian Journal of Marine Science And Technology, (Accepted 2012).
  27. S. M. Soleymannia, **A. Dashtimanesh**, A. Feyzichekab, Analytical solution of asymmetric wedge water impact problem, , Iranian Journal of Marine Science And Technology, (Accepted 2011).
- Note** : All of Articles were performed Under Dr. Ghadimi's Supervision.
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