

Resume of Prof. Hassan Ghassemi

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<http://www.hindawi.com/23813842/>

https://www.researchgate.net/profile/Hassan_Ghassemi

Academic qualification:

- BSc of Mechanical Engineering, Sharif University of Technology, Tehran, Iran, 1984-88.
- MSc of Naval Architecture, Gdansk University of Technology, Poland, 1991-93.
- PhD of Naval Architecture and Ocean Engineering, Yokohama National University, Japan, 1993-96.
- Two years training at IHI co. Japan, 1996-98.
- Post-doctoral, Memorial University of Newfoundland, St. John's, Canada, 1998-00.
- Assistant Professor, Amirkabir University of Technology, 2000-2007.
- Associate Professor, Amirkabir University of Technology, 2008-2014.
- Professor, Amirkabir University of Technology, 2015-~.

Deputy affairs:

- Educational affairs, 2004-06,
- Financial affairs, 2006-08,
- Research affairs, 2008-2012,

Research interest:

- Advance Hydrodynamics,
- Propulsions and Propeller Theory,
- Ship Resistance,
- Modern Marine Vehicles,
- Renewable Energy,
- Numerical Methods (BEM, CFD)
- Cavitation phenomena,
- Partial Differential Equations,

Lectured courses:

Under-graduate:

- Ship Knowledge,
- Ship Hydrostatics,

- Ship Hydrodynamics (I, II)
- Fluid Mechanics (I, II),
- Vibration Theory,
- High-Speed Marine Vehicles,

Post-graduate :

- Marine Propulsor Design,
- Boundary Element Method,
- Advanced Marine Hydrodynamics,
- Dynamic of Marine Structures,
- Aero-Hydrodynamics,

Published Books:

[1]. Marine Propulsor, Theory and Design (in Persian), 2016, Published by Amirkabir University of Technology, 600 pages

۱- تئوری و طراحی پیشرفته های دریایی، ۱۳۹۵، انتشارات دانشگاه صنعتی امیرکبیر، ۶۰۰ صفحه

[2]. Boundary Element Method (in Persian), 2015, Published by Amirkabir University of Technology, 450 pages

۲- روش المان مرزی، ۱۳۹۴، انتشارات دانشگاه صنعتی امیرکبیر، ۴۵۰ صفحه

[3]. Underwater Robots (in Persian), 2014, Published by Rashedin publication, 550 pages

۳- رویاتهای زیرسطحی، ۱۳۹۳، انتشارات راشدین، ۵۵۰ صفحه

[4]. Ship Design (in Persian), 2013, Published by Rashedin publication, 400 pages

۴- طراحی کشتی، ۱۳۹۲، انتشارات راشدین، ۴۰۰ صفحه

Member of Editorial Board:

1. Int. J. Marine Tech., <http://www.ijmt.ir/>
2. Polish Maritime Research, <http://www.bg.pg.gda.pl/pmr/pmr.php>
3. Int. J. Naval Arch Ocean Eng <http://www.sciencedirect.com/science/journal/20926782>
4. J. Ocean, Mech. Aerospace, <http://isomase.org/JOMase3.php>
5. Amer. J. of Mech. Eng., <http://www.sciepub.com/journal/AJME/editors>
6. J Mari Univ. Szczecin <http://scientific-journals.eu/>
7. J. Mar Sci App, <http://www.springer.com/engineering/civil+engineering/journal/11804>
8. J. of Mechanics <http://journals.cambridge.org/action/displayJournal?jid=JOM>

Supervisor of PhD Graduated students:

- Dr. Ahmad Reza Kohansal,
- Dr. Iman Farahbakhsh,
- Dr. Reza Shamsi,
- Dr. Morteza Ghassabzadeh,
- Dr. Ehsan Yari,
- Dr. Mohsen Khosravi,

Supervisor of MSc Graduated students:

More than 60 students,

Supervisor of Under-Graduated students:

More than 100 students,

Peer reviewed journal papers:

2016

- [1]. Hashem Nowruzi, **Hassan Ghassemi**, Using artificial neural network to predict velocity of sound in liquid water as a function of ambient temperature, electrical and magnetic fields, *Journal of Ocean Engineering and Science*, 1(3), (2016), (IF=?).
- [2]. Reza Shamsi, **Hassan Ghassemi**, Determining the Hydrodynamic Loads of the Marine Propeller Forces in Oblique Flow and Off-Design Condition, *Iranian Journal of Science and Technology, Transaction of Mechanical Eng*, 2016, accepted, *in press* (IF=1.045).
- [3]. Hassan Zakerdoost, **Hassan Ghassemi**, Mehdi Iranmanesh, Solving steady state convection-diffusion-reaction using DRBEM, *Advances in Applied Mathematics and Mechanics (AAMM)*, 2016, accepted, *in press* (IF=0.625).
- [4]. Ehsan Esmailian, **Hassan Ghassemi**, Hassan Zakerdoost Systematic probabilistic design methodology for simultaneously optimizing the ship hull-propeller system, *International Journal of Naval Architecture and Ocean Engineering*, (2016), *in press* (IF=0.722).
- [5]. Ehsan Yari, **Hassan Ghassemi**, Hydrodynamic analysis of the surface-piercing propeller in unsteady open water condition using boundary element method, *International Journal of Naval Architecture and Ocean Engineering* 8 (2016), pp22-37, (IF=0.722).
- [6]. Ehsan Yari, **Hassan Ghassemi**, Numerical analysis of surface piercing propeller in unsteady conditions and cupped effect on ventilation pattern of blade cross-section, *J Mar Sci Technol*, (2016), DOI 10.1007/s00773-016-0372-3, (IF=0.709).
- [7]. Ehsan Yari, **Hassan Ghassemi**, Numerical study of surface tension effect on the hydrodynamic modeling of the partially submerged propeller's blade section, *J of Mechanics*, (2016), DOI: 10.1017/jmech.2016.38. (IF=0.828).
- [8]. Ali Bakhshandeh Rostami, Parviz Ghadimi, **Hassan Ghassemi**, Adaptive viscous–inviscid interaction method for analysis of airfoils in ground effect, *J Braz. Soc. Mech. Sci. Eng.* (2016), DOI 10.1007/s40430-016-0485-y. (IF=0.963).
- [9]. Mohsen Gorji, **Hassan Ghassemi**, Jalal Mohammadi, Determining the hydro-acoustic characteristics of the ship propeller in uniform and non-uniform flow, *Int. J of Eng., Transactions A: Basics* Vol. 29, No. 4, (April 2016), pp530-538, (IF=?).
- [10]. M. Bakhtiari, S. Veysi, **Hassan Ghassemi**, Numerical modeling of the stepped planing hull in calm water, *Int. J of Eng. Transactions B: Applications*, Vol. 29, No. 2, (February 2016), (IF=?).
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2015

- [12]. Mohammad Bakhtiari, **Hassan Ghassemi**, Controlling of the boundary layer flow on a ship hull using MHD. *J Braz. Soc. Mech. Sci. Eng.* (2015) 37:479–493, DOI 10.1007/s40430-014-0178-3, (IF=0.963).
- [13]. Mojtaba Kamarlouei, **Hassan Ghassemi**, Robust control for horizontal plane motions of autonomous underwater vehicles, *J Braz. Soc. Mech. Sci. Eng.*, (2015), DOI 10.1007/s40430-015-0403-8, (IF=0.963).
- [14]. Sajad Taj Golah Veysi, Mohammad Bakhtiari, **Hassan Ghassemi**, Mahmoud Ghiasi, Toward numerical modeling of the stepped and non-stepped planing hull, *J Braz. Soc. Mech. Sci. Eng.* (2015) 37:1635–1645, (IF=0.963).
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- [24]. Iman Farahbakhsh, S. S. Nourazar, **Hassan Ghassemi**, H.-S. Dou, A. Nazari-Golshan, On the instability of plane poiseuille flow of two immiscible fluids using the energy gradient theory, *Journal of Mechanics*, Vol. 30, No. 3, (June 2014), (IF=0.314).
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2008

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Before

- [62]. **Hassan Ghassemi**, Boundary element method applied to the three-dimensional cavitating hydrofoil and marine propeller, *Scientia Iranica*, 10 (2), (2003), pp142-152, (IF=?).
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Journal papers (English and Persian):

- [1]. **Hassan Ghassemi**, I have published many papers (Persian and English) in the journals of IJMT, MST, JHSCE, JOMASE, AJME, IJPDEA, AJAMS, A mirkabir, Sharif, Modares, Esteghlal, Mashad, OJFD, JOR, JNAME, IJE, IJMSE, AJCEA, IJEE (more than 100 papers)

Conference papers:

[1]. **Hassan Ghassemi**,I have published many papers in the national and international conferences of the HSC, OMAE, MIC, ICMT, ICHD, ISME, AHC, ... (**more than 200 papers**)

Prepared software:

- [1]. Ship propeller design (SPD)
 - [2]. High speed craft design (HSCD)
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Research projects:

- [1]. Close coop. with marine industries,
 - [2]. Close coop. with marine universities,
-

Patents:

- [1]. Wave energy conversion device,
 - [2]. Blade design for marine propeller (energy saving)
-