

RESUME

Personal Data

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Researchgate Profile

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Academic Achievements

Ph.D. in Coastal Engineering

- Thesis title: "Three dimensional study of porous flow induced by non-linear interaction between waves and permeable structures"
- October 1999 – September 2002, Nagoya University, Nagoya, Japan

M.Sc. in Coastal Engineering

GPA=17.57 (out of 20), Rank 1 (out of 40)

- Thesis title: "Interaction between fluid and symmetrical structures due to water wave loading using transmitting boundaries"
- October 1996 – September 1998, University of Tehran, Tehran, Iran

B.Sc. in Civil Engineering

GPA=16.51 (out of 20), Rank 1 (out of 10)

April 1992 – September 1996, Amirkabir University of Technology, Tehran, Iran

Distinction and Awards

- B.Sc. (Honours) (1992-1996)
- M.Sc. (Honours) (1996-1998)
- Monbusho scholarship of Japanese government (1999-2002)
- Best Paper Award of 11th ISOPE-2001 Conference, Stavanger, Norway

Employment History

Lecturer

Tehran Azad University, Central Branch, Tehran, Iran
Feb.2016-present

Research Fellow and ResTeach affiliated academic

Coastal Engineering Research Center at the University of Queensland, Brisbane, QLD 4072
Oct. 2011- July. 2013

Research Fellow

Griffith Center for Coastal Management, Gold Coast Campus, Griffith University, QLD 4222
Mar. 2009- Sep. 2011

Senior Coastal Engineer

Aurecon Company (Formerly Connell Wagner),
32, Turbot Street (Locked Bag 331), Brisbane, QLD, 4001, Australia
Feb. 2008 – Feb.2009

Research Assistant Professor

Member of academic board and director of Marine Engineering and Technology Division, Iranian National Centre for Oceanography (INCO), Tehran, Iran

April 2003- January 2008

Professional Memberships

- Engineers Australia (ASCO 2124-11)
- Iranian Hydraulic Association (IHA)
- Iranian Association of Naval Architecture & Marine Engineering (IRANAME)
- Japanese Society of Civil Engineers (JSCE)

Software Competencies

- Mike21, SWAN, Delft3D
- Fortran, MATLAB (Programming software)
- SAP90, ETABS (Structural analysis software)
- AutoCAD, GIS, Adobe Photoshop (Drawing software)
- Office software

Research Interests

- Wind, wave, current, tide, storm surge and sedimentation regime modeling
- Fluid -Structure Interaction
- Wave-induced flow modeling inside porous structures

Publications

- Rezaie S.M, Golshani, A., Mousavizadegan, S.H (2019), A New Methodology to Analysis and Predict Shoreline Changes Due to Human Interventions (Case Study: Javad Al-Aemmeh port, Iran), *Int. J. of Maritime Eng.*, Vol. 12, Summer 2019 (9-23).
- Golshani, A., Amiri A., Darabinia F. (2018), Storm Surge Modeling of Noshahr Port in Southern Coast of the Caspian Sea. *Int. Conf. of Coasts, Ports and Marine Eng.*, ICOPMAS2018, Nov. 2018.
- Amiri, A., Darabinia F., Golshani, A. (2018), Installation Analysis of Pipelines in SAKO Desalination Plant. *Int. Conf. of Coasts, Ports and Marine Eng.*, ICOPMAS2018, Nov. 2018.
- Golshani, A., Vasselali, A., Mazaheri, S. (2016), Marine Forecasting Systems in the Caspian Sea, the Persian Gulf, and Oman Sea. *Int. J. of Coastal and Ocean Eng.*, No.2, Summer 2016 (9-12).
- Baldock, T., Golshani, A., Atkinson, A., Shimamoto, T., Wu, S., Callaghan, D., & Mumby, P. (2015). Impact of sea-level rise on cross-shore sediment transport on barrier reef island beaches. *Marine Pollution Bulletin*, 97:188-198.
- Baldock, T., Karampour, H., Sleep, R., Vyllta, A., Albermani, F., Golshani, A., Callaghan, D., Roff, G., Mumby, P. (2014). Coral resilience to wave loading under sea level rise - a coupled computational fluid dynamics-structural analysis. *Marine Pollution Bulletin*, 86:91-101
- Saunders M., Leon, J., Callaghan, D., Roelfsema, C., Hamylton, S., Brown, C., Baldock, T., Golshani, A., Phinn, S., Lovelock, C., Hoegh-Guldberg, O., Woodroffe, C., and Mumby, P (2014). Interdependency of tropical marine ecosystems in response to climate change, *Nature Climate Change*, 4:724-729
- Baldock, T., Golshani, A., Callaghan, D., Saunders, M. & Mumby, P. (2014). Impact of sea-level rise and coral mortality on the hydrodynamics and wave forces on coral reefs. *Marine Pollution Bulletin* 83:155-164.
- Kristen D. Splinter, James T. Carley, Aliasghar Golshani, Rodger Tomlinson (2014), A relationship to describe the cumulative impact of storm clusters on beach erosion, *Coastal Engineering*, Volume 83, January 2014, Pages 49-55
- Golshani, A., Baldock, T., Mumby, P., Callaghan, D. (2012), "Study of climate change impact on reef island shores using the SWAN model", *Coast 2 Coast Conference*, Brisbane, September 2012.
- Kristen D. Splinter, Mark A. Davidson, Aliasghar Golshani, Rodger Tomlinson (2012), Climate controls on longshore sediment transport, *Continental Shelf Research*, Volume 48, 1 October 2012, Pages 146-156

- Sedigh, M., Tomlinson, R., Golshani, A., Cartwright, N., (2012): "Long term morphological evolution of the Gold Coast Seaway: Historical and Numerical analysis.", International Conference of Coastal Engineering, ICCE2012, July 2012, Santander, Spain.
- Sano, M., Baum, S., Bussey, M., Carter, B., Crick, F., Golshani, A., Low-Choy, D., Richards, R., Roiko, A., Serrao-Neumann, S., Splinter, K., Smith, T., and Tomlinson, R. (2012): "Adapting coasts to climate futures. An Australian Perspective.", International Conference of Coastal Engineering, ICCE2012, July 2012, Santander, Spain.
- Golshani, A., Baldock, T., Mumby P., Callaghan, D., Nielsen, P., Phinn, S. (2012), "Climate impacts on hydrodynamics and sediment dynamics at reef islands", 12th International Coral Reef Symposium (ICRS 2012), July 2012, Cairns, Australia.
- Saunders, M., Leon, J., Golshani, A., Baldock, T., Callaghan, D., Hamilton, S., Phinn, S., Lovelock, C., and Mumby, P. (2012), "Sea-level rise impact on sea grass in coral reef ecosystems: effects of wave-driven hydrodynamics, 50th ECSA Conference: Today's science for tomorrow's Management", June 2012, Venice, Italy.
- Golshani, A., Stuart, G., and Tomlinson, R. (2012): "Storm surge modeling of Fraser East Coast Low event in South-East Queensland", Eight International Conference on Coastal and Port Engineering in Developing Countries, PIANC COPEDEC VIII, 20-24 February, IIT Madras, Chennai, India.
- Golshani, A., Splinter, D., Thurston, W., and Tomlinson, R. (2011): "Modeling of May 1996 East Coast Low Event in South-East Queensland", Queensland Coastal Conference 2011, 19-21 October 2011, Cairns, Australia.
- Sano, M., Baum, S., Bussey, M., Carter, B., Crick, F., Golshani, A., Low-Choy, D., Richards, R., Roiko, A., Serrao-Neumann, S., Splinter, K., Smith, T., and Tomlinson, R. (2011): "Adapting coasts to climate variability and change: Integrating outcomes from "Future Coastlines" and the "South East Queensland Climate Adaptation Research Initiative"", Coasts and Ports 2011 Conference, 28-30 September 2011, Perth, Australia.
- Golshani, A., Taebi, S. (2011): "A case study regarding the relationship between wave period and wave height in the Caspian Sea, the Persian Gulf and the Gulf of Oman", Coastal Structures Conference 2011, 5-8 September 2011, Yokohama, Japan.
- Golshani, A., Thurston, W., Abbs, D., Stuart, G., and Tomlinson, R. (2011): "Numerical modeling of storm surge induced by May 2009 East Coast Low in Gold Coast, Australia", Solution to Coastal Disasters Conference, June 2011, ASCE, Anchorage, Alaska, USA.
- Sano, M., Golshani, A., Splinter, K., Strauss, D., Thurston, W. and Tomlinson, R. (2011): "A detailed assessment of vulnerability to climate change in the Gold Coast, Australia", 11th International Coastal Symposium, May 2011, Szczecin, Poland.
- Golshani, A. (2011): "A hydrodynamic study of the south of Persian Gulf using DELFT3D-Flow model", Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering, submitted. (Persian)
- Golshani, A. (2011): "A 60 years wave hindcast study in the Persian Gulf using SWAN model and semi-time domain method", Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering. (Persian)
- Golshani, A., Tomlinson R., and Stuart G. (2010): "Storm surge modeling of the extreme events in Gold Coast, Queensland", Storm Surges Congress 2010, September 2010, Hamburg.
- Splinter, K., Golshani, A. (2010): "Development of a wave classification scheme to examine climate variability and nearshore response", Proceedings of 2010 Australian Wind Waves Symposium, Gold Coast, Australia.
- Golshani, A. (2010): "A 60-Year Wave Hindcast Study in the South of Persian Gulf using SWAN Model", The 9th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Splinter, K., Golshani, A., Stuart G and Tomlinson R. (2010): "Spatial and temporal variability of alongshore transport along Gold Coast, Australia", International Conference of Coastal Engineering, ICCE2010, July 2010, Shanghai, China.
- Tofighi, M.A., Zeinoddini M., and Golshani A. (2009): "3D Hydrodynamic modeling of flow regime in the Urmia Lake to investigate the possibility of stratification", Modares Engineering and Technical Journal, No. 35, pp. 65-76. (Persian)
- Golshani, A. and S. Taebi, (2008): "Evaluation of QuikSCAT wind field in Iranian Seas", The 8th International Conference on Hydro-science and Engineering, ICHE2008, Nagoya, Japan.

- Golshani, A., Taebi S. (2008): "Numerical modeling of Gonu cyclone and its resulting water waves in the Gulf of Oman", The 9th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Nasser, E., Golshani A. (2008): "Numerical modeling of the interaction between vertical seawalls and water waves in order to estimate wave forces exerted on the wall", The 9th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Taebi, S., Golshani, A., and Chegini, V. (2008): "An Approach toward Wave Climate Study in the Persian Gulf and the Gulf of Oman: Simulation and Validation", Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering, Vol.4, No.7, pp.11-26.
- Golshani, A. and Taebi, S. (2008): "Numerical modeling of Gonu cyclone and its resulting water waves in the Gulf of Oman", Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering, Vol.4, No.8, pp.27-36.(Persian)
- Golshani, A. and Taebi, S. (2008): "Evaluation of wind vectors observed by QuikSCAT/SeaWinds using synoptic and atmospheric models data in Iranian adjacent", Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering, Vol.4, No.8, pp.49-65. (Persian)
- Golshani, A. and S. Taebi, (2008): "Numerical modeling and warning procedure for Gonu super cyclone in Iranian Coastlines", Proceeding of Solutions to Coastal Disasters Conference 2008, pp.268-275, ASCE, OAHU, Hawaii, USA.
- Taebi, S. and A. Golshani, (2007): "Long Term Characteristics of waves in the Caspian Sea, The Persian Gulf and The Gulf of Oman." COPEDEC VII, 2008, Dubai, UAE.
- Golshani, A., Taebi, S. and Chegini, V. (2007): "Wave hindcast study and extreme value analysis for the southern part of the Caspian Sea." Coastal Eng. Journal, World scientific, Vol.49, No.4, pp. 443 - 459.
- Golshani, A., Taebi, S. and Chegini, V. (2006): "Challenges to provide an appropriate wind field for wave hindcast in Iranian seas." GODAE Symposium on ocean data assimilation and prediction in Asia-Oceania, October 2006, Beijing, China, Pg. 60
- Golshani, A., Taebi, S. and Chegini, V. (2006): "Wave hindcast study of the Persian Gulf and Gulf of Oman". The 7th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Taebi, S., Golshani, A., and Chegini, V. (2006): "Extreme wind and wave atlas in the Caspian Sea, the Persian Gulf and Gulf of Oman". The 7th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Hasanzadeh, H.R. and Golshani, A. (2006): "Wave attenuation on submerged breakwater study using a two dimensional boundary element model". The 7th International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Golshani, A., Nakhaee, A., Taebi, S., Chagini, V., Alaei, M. (2005): "Wave hindcast study of the Caspian Sea". Journal of Marine Engineering, Iranian Association of Naval Architecture & Marine Engineering, Vol.1, No.2, pp.19-25.
- Golshani, A., Nakhaee, A., Taebi, S., Chagini, V., Alaei, M. (2004): "Iranian Sea Waves Modeling project: The Caspian Sea". The sixth International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Golshani, A., Mizutani, N., Hur, D.S., and Shimizu, H (2003): "Three-dimensional analysis of nonlinear interaction between water waves and permeable breakwater". Coastal Eng. Journal, World scientific, Vol.45, No.1, pp.1-28.
- Golshani, A. (2002): "Three-dimensional study of porous flow induced by nonlinear interaction between waves and permeable structures", PhD dissertation, Nagoya University, Faculty of Eng., Nagoya, Japan, 144p.
- Golshani, A., Mizutani, N., and Hur, D.S. (2002): "Three-Dimensional Modeling of Wave-induced Flow inside and around Vertical Permeable Breakwater". The Fifth International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Ramsar, Iran.
- Mizutani, N., Hur, D.S., Golshani, A., and Shimizu H. (2002): "Study on wave-induced flows inside and outside of permeable breakwater and their governing parameters", Proc. of Civil Eng. in the Ocean, Shimonoseki. pp.365-370. (Japanese)
- Golshani, A., Mizutani, N., Hur, D.S., and Shimizu, H. (2002): "Three-dimensional experimental study of wave-induced flow around a permeable breakwater". 12th

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- Mizutani, N., Hur, D.S., Golshani, A., and Shimizu, H. (2002): "A study on wave-induced current around permeable structure", Annual Conf. of Chubu branch, JSCE, pp.241-241. (Japanese)
- Golshani, A., Mizutani, N., and Hur, D.S. (2002): "Nonlinear simulation of water waves and porous structures interaction using three-dimensional combined Eulerian-Lagrangian numerical model." Fifth Int. Conf. on Hydrodynamics, Tainan, Taiwan.
- Golshani, A., Mizutani, N., and Hur, D.S. (2002): "Three dimensional fully nonlinear combined Eulerian-Lagrangian numerical model of porous media-water waves interaction", Int. Journal of Offshore and Polar Engineering, Vol.12, No.3, pp.196-205
- Mizutani, N., Hur, D.S., Hirano, Y., Golshani, A., and Shimizu, H. (2001): "A study on flow field around permeable structure under wave action", Annual Conf. of Chubu branch, JSCE, pp.167-168. (Japanese)
- Mizutani, N., Golshani, A., Hur, D.S., Hirano, Y., and Shimizu, H. (2001): "Study on wave-induced current inside and around a permeable breakwater", Proc. of Coastal Eng., JSCE, Vol.48 (2), Kumamoto, Japan, pp. 791-795. (Japanese)
- Mizutani, N., Golshani, A. and Hur, D.S. (2001): "The three-dimensional study of wave induced flow inside and around an offshore permeable structure", 11th Int. Offshore and Polar Eng. Conf., ISOPE, Stavanger, Norway, pp.638-644.
- Mizutani, N., Hur, D.S., Hirano, Y., Shimizu, H., and Golshani, A. (2000): "Study on wave-induced flows inside and outside of permeable structure", Proc. of Civil Eng. in the Ocean, Vol.16, Tokyo, pp.41-46. (Japanese)
- Mazaheri, S., Golshani, A., Darabinia, F. (1998): "Applications of mathematical models in diffraction analysis & designing harbor layout of the South Pars Gas Field in the Persian Gulf", The Third International Conference on Coasts, Ports & Marine Structures, ICOPMAS, Tehran, Iran. (Persian)
- Golshani, A. (1998): "Interaction between fluid & axisymmetric structures due to water waves loading by using transmitting boundaries", M.Sc. Thesis, University of Tehran, Faculty of Eng., Tehran, Iran, 70p. (Persian)
- Golshani, A.As. Golshani, A.Ak. (1995): "The effects of the axial deformation on the analysis of indeterminate structures", The Third Civil Eng. Students Conference, Khajeh Nasireddin Toosi University of Technology, Tehran, Iran. (Persian)
- Golshani, A.Ak. Golshani, A.As. (1994): "The sensitivity of the performance of an earth pressure cell to the variations of the soil characteristics", The Second Civil Eng. Students Conference, University of Tehran, Faculty of Eng., Tehran, Iran. (Persian)