

Hadi Dehghan Manshadi

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EDUCATION

Ph.D. in Earthquake Engineering, Tarbiat Modares University, Tehran, Iran 2011-2014
Dissertation: Development of Linear Sampling Method (LSM) in time domain for Inverse Problems of Elastic Waves Scattering
Supervisor: [Prof. Naser Khaji](#)
Advisors: [Prof. Mohammad Rahimian \(University of Tehran\)](#)

M.Sc. in Structural Engineering, Shiraz University, Shiraz, Iran 2007-2010
Dissertation: The effects of long-term corrosion on the dynamic characteristics of ground based cylindrical liquid storage tanks
Supervisor: [Prof. Mahmoud R. Maheri](#)

B.Sc. in Civil Engineering, Yazd University, Yazd, Iran, 2002-2007

Diploma in Mathematics and Physics, 1998-2002
NODET (*National Organization for development of Exceptional Talents*), Yazd, Iran

Teaching Experiences

- Advanced Engineering Mathematics (Graduate Students)
- Elasticity Theory (Graduate Students)
- Structural Analysis
- Earthquake Engineering
- Mechanics of Materials

RESEARCH INTEREST

- Inverse Scattering Problems
- Seismic Wave Propagation
- Numerical Methods in Computational Mechanics (FEM, BEM, SFEM)
- Elastodynamic

PUBLICATIONS

Published Papers:

- M. J. Esfandiary, G.S. Urgessa, S. Sheikholarefin, **S.H. Dehghan Manshadi**, Optimization of reinforced concrete frames subjected to historical time-history loadings using DMPSO algorithm, *Structural and Multidisciplinary Optimization* (2018).
- M. J. Esfandiary, G.S. Urgessa, S. Sheikholarefin, **S.H. Dehghan Manshadi**, Optimum design of 3D reinforced concrete frames using DMPSO algorithm, *Advances in Engineering Software* (2018).
- **S. H. Dehghan Manshadi**, S.M. Dehghan Manshadi, H.R. Amiri, S. Hamzehei Javaran, Flaw identification for Laplace equation using linear sampling method, *Mathematics and Mechanics of Solids* (2017).
- M. A. Dehghani Mahmoodabadi, **S. H. Dehghan Manshadi**, A. Ranjbaran, M. J. Esfandiary, S. M. Dehghan Manshadi, Analysis of localization in the two-span columns with general boundary conditions, *European Journal of Environmental and Civil Engineering* (2016).
- M. J. Esfandiary, H. Rahimi Bondarabadi, **S.H. Dehghan Manshadi**, S. Sheikholarefin, Parameters influencing debonding of FRP sheets in shear-strengthened beams, *European Journal of Environmental and Civil Engineering* (2016).
- **S. H. Dehghan Manshadi**, N. Khaji, Time domain linear sampling method for qualitative identification of buried cavities from elastodynamic over-determined boundary data, *Computers & Structures - Journal* (2015).
- **S. H. Dehghan Manshadi**, N. Khaji, M. Rahimian, Cavity/Inclusion Detection in Plane Linear Elastic Bodies Using Linear Sampling Method, *journal of nondestructive evaluation*, springer (2013).
- **S. H. Dehghan Manshadi**, N. Khaji, Cavity detection in a heat conductor using linear sampling method, *Heat Mass Transfer*, Springer (2014).
- M. A. Dehghani Mahmoodabadi, **S. H. Dehghan Manshadi**, A. Ranjbaran, M. J. Esfandiary, S. M. Dehghan Manshadi, Analysis of localization in the two-span columns with general boundary conditions, *European Journal of Environmental and Civil Engineering* (2016).
- M. J. Esfandiary, H. Rahimi Bondarabadi, **S.H. Dehghan Manshadi**, S. Sheikholarefin, Parameters influencing debonding of FRP sheets in shear-strengthened beams, *European Journal of Environmental and Civil Engineering* (2016).
- **S. H. Dehghan Manshadi**, M. R Maheri, The effects of long term corrosion on the dynamic characteristics of ground based cylindrical liquid storage tanks, *Thin-Walled structures*, Science direct(2011).

Submitted Papers:

- **S. H. Dehghan Manshadi**, N. Khaji, Time domain linear sampling method for near-field inverse scattering problems of elastodynamics, Inverse Problems.
- H.R. Amiri, **S.H. Dehghan Manshadi**, F. Sarvi, M. A. Morovat, A novel sensitivity based method for damage detection in structural element, journal of nondestructive evaluation.
- M. A. Dehghani Mahmoodabadi, **S. H. Dehghan Manshadi**, M. Mokhtari, The effect of crack on buckling behavior of weakened Column, Modares Civil Engineering journal.

Conference:

- **S. H. Dehghan Manshadi**, N. Khaji, A linear sampling method for inverse scattering elastodynamics problems in the time domain, 15th World Conference of Earthquake Engineering, Lisbon(2012).
- **S. H Dehghan Manshadi**, M. R. Maheri, The influence of non-uniform thickness due to corrosion on dynamic characteristics of anchored cylindrical tanks, ASCE (Structural Engineering Institute's 2010 Structures Congress joint with the North American Steel Construction Conference in Orlando.

HONORS AND AWARDS

- **Prize for an excellent Ph.D. Thesis**; Tarbiat Modares University, Tehran, Iran (2015)
- **Ranked 1st among 3 students** in civil department (**Ph.D.**); Tarbiat Modares University, Tehran, Iran (2015)
- **The only Ph.D. student** at 2014 who took complete point of dissertation in civil department (I passed My Ph.D. in 7 semester)
- **Ranked 1st among 15 students** in civil department (**M.Sc.**); Shiraz University, Shiraz, Iran (2010)

COURSE PROJECTS & RESEARCHES

- Writing a **comprehensive Matlab code** for simulating one, two and three dimensional problems using Boundary Element Method, Under Supervision of Professor Noorzad, Summer 2012.
- Writing a **comprehensive Fortran code** for simulating wave propagation using Spectral Finite Element Method, Under Supervision of Professor Khaji, Summer 2013.
- Writing a **Matlab code for the Random Vibration** of structures according to a given acceleration spectrum, summer 2010.
- Writing **several codes in Ansys environment** for simulating cylindrical liquid storage tanks, Under Supervision of Professor Maheri, Summer 2009.
- Writing a **comprehensive Matlab code** for simulating one, two and three dimensional problems using Finite Element Method, Under Supervision of Professor Ranjbaran, Summer 2008.

SKILLS

Languages:

- **English:** Fluent
- **Persian:** Mother tongue

Computer:

- Experienced in **Finite Element Analysis** Software: **ABAQUS, ANSYS**
- Experienced in Structural Analysis Software: **Sap, Etabs, Safe**
- Experienced in Mathematical Calculations: **Matlab, Maple, Mathematica**
- Familiarity in Programming Languages: **Fortran, Pascal, F#, C++**