

Curriculum Vitae

Mohammad Hadikhan Tehrani

**Personal Info.**

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**Education**

Doctor of Philosophy in Structural Engineering (2015-Present)  
[The University of Oklahoma](#), Norman, Oklahoma, USA.  
**Advisor:** Naiyu Wang  
Master of Science in Structural Engineering (2010-2013)  
[Amirkabir University of Technology \(Tehran Polytechnic\)](#), Tehran, Iran.  
**Thesis:** Assessment of Nonlinear Static Analysis Procedures for Asymmetric Plan Tall Buildings Considering Soil-Structure Interaction.  
**Pre-Thesis:** Effects of Torsion in Dynamic Behavior of Tall Buildings.  
**Advisor:** Faramarz Khoshnoudian  
**Overall GPA:** 17.88/20 (3.91/4)  
Bachelor of Science in Civil Engineering (2006-2010)  
[Semnan University](#), Semnan, Iran.  
**Advisor:** Khosro Hoseini  
**Overall GPA:** 16.90/20 (3.55/4)

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**Honors and Awards**

Ranked **second** among 15 students of M.S. program, Amirkabir University of Technology.  
Ranked **first** among 50 students of B.S. program, Semnan University.  
Ranked among the **top 0.9** percent of about 16,000 participants in the national entrance exam of the master program in field of civil engineering in 2010.  
Selected by the board of **Exceptional Talent** to pursue graduate education in the field of Structural or Earthquake Engineering in Semnan University in 2010, waived of the entrance exam.  
**Exempted** from the national entrance exam for the Ph.D. program in 2013.

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**Assistantship Experience**

Research Assistant, The University of Oklahoma, Aug 2015 – Present.  
Teaching Assistant, Structural Analysis, The University of Oklahoma, Aug 2015 – Dec 2015.

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**Research Interests**

Network Modeling	Earthquake Engineering & Structural Dynamic
Optimization	Performance Based Seismic Design
Machin Learning	Reliability and Safety of Structures
Data Mining	Nonlinear Structural Analysis

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**Computer and Modeling Skills**

**Code Developing:** MATLAB, FORTRAN, TCL, Excel, R.  
**Engineering Applications:** OpenSees, SAP2000, ETABS, SAFE, SeismoSignal, EERA, NERA, AutoCAD.  
**Computer Applications:** Microsoft Office (Word, Excel, PowerPoint).

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## Journal Papers (PEER-REVIEWED)

1. **M. Hadikhan Tehrani** and F. Khoshnoudian “Extended Consecutive Modal Pushover Procedure for Estimating Seismic Responses of One-way Asymmetric Plan Tall Buildings considering soil-structure interaction”, *Earthquake Engineering & Engineering Vibration*, **13**(3), pp. 487-507, (2014). DOI: 10.1007/s11803-014-0257-6 (Published, [Access Link](#))
2. H. Masaeli, F. Khoshnoudian and **M. Hadikhan Tehrani** “*Rocking Isolation of Nonductile Moderately Tall Buildings Subjected to Bidirectional Near-Fault Ground Motions*”, *Engineering Structures*, **80**, pp. 298-315 (2014). DOI: 10.1016/j.engstruct.2014.08.053 (Published, [Access Link](#))
3. F. Khoshnoudian, E. Ahmadi, M. Kiani and **M. Hadikhan Tehrani** “*Collapse Capacity of Soil-structure Systems under Pulse-like Earthquakes*”, *Earthquake Engineering and Structural Dynamics* (2014). DOI: 10.1002/eqe.2501 (Published, [Access Link](#))
4. F. Khoshnoudian, E. Ahmadi, M. Kiani and **M. Hadikhan Tehrani** “*Dynamic Instability of Soil-SDOF Structure Systems under Far-fault Earthquakes*”, *Earthquake Spectra* (2015). DOI: 10.1193/062613EQS170M (Published, [Access Link](#))

## Conference Papers

5. **M. Hadikhan Tehrani**, A. Mellati, M. Fallahian and F. Khoshnoudian “*Evaluation of Different Lateral Load Patterns in Estimating Seismic Demands of 3D Mass Eccentric Mid-rise Building*”, Proc. of the Int. Conf. on Advances in Structural, Civil and Env. Eng. (SCEE), Kuala Lumpur, Malaysia, 04-05 May, (2013). (Published on IJACSE, **1**(1), pp. 90-94, [Access Link](#))
6. **M. Hadikhan Tehrani**, A. Mellati and F. Khoshnoudian “*New Lateral Load Pattern for Estimating Seismic Demands of Elevated Water Tanks Supported on Concrete Shaft*”, Proc. of the Int. Conf. on Advances in Structural, Civil and Env. Eng. (SCEE), Kuala Lumpur, Malaysia, 04-05 May, (2013). (Published on IJACSE, **1**(1), pp. 104-108, [Access Link](#))
7. A. Mellati, **M. Hadikhan Tehrani**, Y. H. Zeinali, M. Banazadeh and F. Paytam “*Evaluation of Overstrength Factor of Steel Moment Resisting Frames*”, Proc. of the Int. Conf. on Advances in Structural, Civil and Env. Eng. (SCEE), Kuala Lumpur, Malaysia, 04-05 May, (2013). (Published on IJACSE, **1**(1), pp. 100-103, [Access Link](#))
8. M. Fallahian, A. Mellati, **M. Hadikhan Tehrani**, F. Khoshnoudian and M. Tarverdi “*Parametric Analysis of Liquid Storage Tanks Base Isolated by Double Concave Friction Pendulum System*”, Proc. of the Int. Conf. on Advances in Structural, Civil and Env. Eng. (SCEE), Kuala Lumpur, Malaysia, 04-05 May, (2013). (Published on IJACSE, **1**(1), pp. 95-99, [Access Link](#))

## Work Experiences

[Tose Paidar Hezareh Sevom Consulting Engineers Group Company](#)

Structural Designer (February 2014 – July 2015)

Some Projects includes:

Design of a 13-Story Commercial-Residential Building

Design of a 19-Story Residential Building

Design of a 35-Story Residential Building

Supervisor of a multitude of construction sites in Tehran

Residential 7-Story building (June 2012 – September 2013)

Residential 6-Story building (June 2008 – September 2008)

Residential 8-Story building (June 2005 – September 2007)

## Professional Registrations & Memberships

Member of the Organization for Engineering Order of Building – Tehran.

**Membership Code:** 10\_3\_0\_98912

Registered Professional Engineer at Tehran.

**Areas:** Design, Construction and Supervision