

CURRICULUM VITAE

970615ar

Hamed Hamidi



Personal Information:

- Profession: University Professor
- University Degree: Assistant Professor
- Citizenship: Iranian
- Languages: Persian, English
- University Address: School of Civil Engineering,
Babol Noshirvani University of Technology
E-mail: h_hamidi@alumni.iust.ac.ir

Education & Academic Qualifications:

- Visiting Researcher, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. (12)
- Ph.D., Civil Engineering (Earthquake Eng.), Iran University of Science & Technology. (14)
- M.Sc., Civil Engineering (Earthquake Eng.), Iran University of Science & Technology. (07)
- B.Sc., Civil Engineering, University of Mazandaran. (03)

Thesis:

- Ph.D.: *The Study of Static Offset on the Response Spectra in Near Source Sites Using Probabilistic Method.*
- M.Sc.: *The Effect of Analysis Methods on the Response of Steel-Braced Framed Buildings for Seismic Retrofitting.*

Research Interests:

- Earthquake Engineering & Nonlinear Dynamic Problems
- Seismic Retrofitting of Structures
- Synthesizing Strong Motion & Inversion Solution
- Seismic Hazard Analysis
- Performance-based seismic design and IDA
- Design of Blast Loaded Structures

Academic Experiences:

- Guest Professor, B.Sc. Level Teaching, *Dynamics*, Iran University of Science & Technology.
- Teacher Assistant, B.Sc. Level, *Earthquake Eng*, Iran University of Science & Technology.
- Teacher Assistant, M.Sc. Level, *Seismic Retrofitting of Structures*, Iran University of Science & Technology.
- Lecturer, B.Sc. Level Teaching, *Dynamics*, Babol Noshirvani University of Technology.
- Lecturer, B.Sc. Level Teaching, *Technical English*, Babol Noshirvani University of Technology.
- Lecturer, B.Sc. Level Teaching, *Structural Analysis*, Babol Noshirvani University of Technology.
- Lecturer, M.Sc. Level Teaching, *Soil Dynamics*, Babol Noshirvani University of Technology.
- Lecturer, M.Sc. Level Teaching, *Tall Buildings*, Babol Noshirvani University of Technology.
- Lecturer, M.Sc. Level Teaching, *Research Methodology*, Babol Noshirvani University of Technology.

- Lecturer, Ph.D. Level Teaching, *Performance Based Seismic Design*, Babol Noshirvani University of Technology.
- Guest Professor, B.Sc. Level Teaching, *Loading*, University of Mazandaran.
- Guest Professor, B.Sc. Level Teaching, *Earthquake Eng*, University of Mazandaran.
- Guest Professor, B.Sc. Level Teaching, *Dynamics*, Aryan Institute of Science & Technology.
- Guest Professor, B.Sc. Level Teaching, *Earthquake & Wind Eng*, Aryan Institute of Science & Technology.
- Guest Professor, M.Sc. Level Teaching, *Earthquake Eng*, Aryan Institute of Science & Technology.
- Guest Professor, M.Sc. Level Teaching, *Tall Buildings*, Aryan Institute of Science & Technology.
- Guest Professor, B.Sc. Level Teaching, *Earthquake & Wind Eng*, Tabari University of Babol.
- Guest Professor, M.Sc. Level Teaching, *Earthquake Eng*, Tabari University of Babol.
- Guest Professor, M.Sc. Level Teaching, *Dynamics of Structures*, Tabari University of Babol.

Publications (Papers):

A. Journals-English:

- Ghodrati Amiri G, Hamidi Jamnani H, Ahmadi H. **The effect of analysis methods on the response of steel dual-system frame buildings for seismic retrofitting.** International Journal of Engineering-Transactions B: Applications. 2009; 22:317.
- Nicknam A, Barkhordari MA, Hamidi Jamnani H, Hosseini A. **Compatible seismogram simulation at near source site using Multi-Taper Spectral Analysis approach (MTSA).** Journal of Vibroengineering. 2013; 15:626-38.
- Nicknam A, Hosseini A, Hamidi Jamnani H, Barkhordari MA. **Reproducing fling-step and forward directivity at near source site using of multi-objective particle swarm optimization and multi taper.** Earthquake Engineering and Engineering Vibration. 2013; 12:529-40.
- Nicknam A, Barkhordari MA, Hamidi Jamnani H, Hosseini A. **Probable Contribution of fling-step effect on the response spectra at near source site.** Journal of Vibroengineering. 2014; 16.
- Nicknam A, Hosseini A, Hamidi Jamnani H, Barkhordari MA. **Investigation of fling-step effect on the selected structures subjected to the simulated Fandoqa near source strong motion.** Journal of Vibroengineering. 2014; 16.
- Faghimaleki H, Abdollahzadeh Gh, Hamidi Jamnani H. **Effect of Structure Height in Seismic Fragility Curve.** Amieamt Journal, 2014; 2 (6):498-503
- Khaloo A, Khosravi H, Hamidi Jamnani H. **Nonlinear interstory drift contours for idealized forward directivity pulses using "modified fish-bone" models.** Advances in Structural Engineering. 2015; 18 (5): 603-627
- Mosleh, A., Hamidi, H., Nicknam, A., Jara, J., & Varum, H. **Seismic Vulnerability assessment of concrete railway bridge using nonlinear analyses.** Journal of Structural Engineering and Geo-Techniques. 2016; 6(2), 41-49.
- Hamidi Jamnani H, Faghimaleki H, Abdollahzadeh Gh and Nejati F. **Seismic Fragility Analysis of Improved RC Frames Using Different Types of Bracing.** Journal of Engineering Science and Technology. 2017; 12(4), 913-934
- Hamidi Jamnani H, Vaseghi Amiri J and Rajabnejad H. **Energy distribution in RC shear wall-frame structures subject to repeated earthquakes.** Soil Dynamics and Earthquake Engineering. 2018; 107, 116-128.
- Hamidi H, Farokhzadeh F and Shamekhi Amiri M. **Structural investigation of height - irregular-steel braced structures against progressive collapse.** Journal of Engineering Science and Technology. 2018; 13(6), 1621-1635.

- Hamidi H, Khosravi H and Soleimani R. **Fling-step ground motions simulation using theoretical-based Green's function technique for structural analysis.** Soil Dynamics and Earthquake Engineering, 2018; 115, 232-245.
- ...

B. Journals-Persian:

- Ghodrati Amiri G, Mohebi B, Hamidi Jamnani H. **Investigating Deterioration Effect of Hysteresis Loops in Nonlinear Static Analysis of Intermediate RC Moment Frame,** Amirkabir Journal of Science & Technology, vol. 41. No. 1, 2009.
- Nicknam A, Akbarpour A, Mosleh A, Hamidi Jamnani H. **Seismic Evaluation of RC Railway Bridge Using Nonlinear Static Analysis,** Journal of ACI, Iran Chapter, Vol. 11, 2009.
- B. Heidary, H.R. Tavakoli, H. Hamidi, R. Rahgozar, **The Effect of Lateral Load Pattern on Optimum Location of Outrigger and Belt Truss in Tall Buildings,** Civil Engineering Journal of Ferdowsi University of Mashhad, 2016, Accepted.
- ...

C. Conferences-English:

- Ghodrati Amiri, G., Hamidi Jamnani, H. and Khorasani, M. Asian Pacific Symposium on Structural Reliability and Its Application, June 18-20, 2008, Hong Kong University of Science and Technology. **"Vulnerability Study of Steel-Braced Frame Buildings in Iran"**.
- Ghodrati Amiri, G., Emadi, A. and Hamidi Jamnani, H. 3rd International Conference on Concrete and Development, April 2009, BHRC, Tehran, Iran. **"Performance Investigation of RC Short Columns Retrofitted with FRP Composites in Passive and Active States"**.
- Ghodrati Amiri, G., Hamidi Jamnani, H. and Emdadi, A. The Second Official International Conference of International Institute for FRP in Construction for Asia-Pacific Region. 9-11 December, 2009, Seoul, Korea. **"The Effect of FRP Composites on Strengthening and Retrofitting of RC Short Columns"**.
- Nicknam A, Mosleh A, Hamidi Jamnani H. The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), Hong Kong Special Administrative Region, China, 24-26 January 2011. **"Seismic Performance Evaluation of Urban Bridge Using Static Nonlinear Procedure, Case Study: Hafez Bridge"**.
- Hamidi Jamnani H, Hosseini A, Issa MA, Nicknam A. 2nd International Conference On Performance-Based Design In Earthquake Geotechnical Engineering, Italy 2012, **"Structural performance using theoretical-based synthetic waveform with respect to the site soil conditions"**.
- Hamidi Jamnani H, Karbassi A, Lestuzzi P. NZSEE Annual Conference, Wellington, New Zealand 2013. **"Fling-step effect on the seismic behaviour of high-rise RC buildings during the Christchurch earthquake"**.

D. Conferences-Persian:

- Nicknam A, Hosseini A, Hamidi Jamnani H. 8th International Conference on Civil Engineering, May 2009, Shiraz, Iran, **"The effect of changing base level on seismic behavior of steel braced & moment frame buildings"**.
- Nicknam A, Hamidi Jamnani H, Mosleh A. 5th National Conference on Civil Engineering, May 2010, Mashhad, Iran, **"Seismic Investigation of RC Bridge Using Nonlinear Dynamic Analysis"**.

- Nicknam A, Hamidi Jamnani H, Hosseini A. 6th International Conference on Seismology and Earthquake Engineering, May 2011, Tehran, Iran, **“Near Field Earthquake Simulation Using GA Method”**.
- Nicknam A, Hosseini A, Hamidi Jamnani H. 1st International Conference on Urban Construction in the Vicinity of Active Faults (ICCVAF), September 2011, Tabriz-Iran. **“Aftershock Probabilistic Seismic Hazard Analysis of high seismicity zones”**.
- Hamidi Jamnani H, Faghihmaleki H and Gholampour S. **Seismic Retrofitting of RC Buildings Using X-Bracing System with Presentation of Fragility Curves**. 8NCCE, May 2014, Babol, Iran.
- Ghodrati Amiri G, Razavian A, Hamidi Jamnani H and Mohamadzadeh V. 6th National Conference on Concrete, Oct 2014, Tehran, Iran. **“Damage analysis of RC frame buildings with shear walls using nonlinear static procedure”**.
- Mahjoor M, Jahani E and Hamidi Jamnani H. 2nd International Congress on Structure, Architecture & Urban Development, Tabriz, 2014. **“Determining the reliability of steel moment frames subjected to seismic excitation”**
- Hasanpour E, Vaseghi Amiri J and Hamidi Jamnani H. 1st National Conference on Civil Engineering and Sustainable Development, 2014, Iran. **The effect of intermediate stiffeners on seismic behavior of steel shear walls subjected to near and far-field earthquakes.**
- Ebrahimi A, Abdollahzadeh Gh and Hamidi Jamnani H. 1st International Conference on Human, Architecture, Civil Engineering and City, ICOHACC 2015, Tabriz, Iran. **Visco-Plastic damper effects on behavior of steel frames subjected to blast loading.**
- Tavakol HR, Donyadar A and Hamidi Jamnani H. 1st National Conference on Structural Engineering, Jan 2015, Tehran, Iran. **The effect of permanent displacement on seismic response of RC frames designed based on direct displacement and 2800 conventional method.**
- Ahamadi A, Hamidi Jamnani H and Ghodrati Amiri Gh. 7th International Conference on Seismology and Earthquake Engineering, May 2015, Tehran, Iran. **The effect of torsion on nonlinear behavior of mid-rise shear wall RC buildings.**
- Abdollahzadeh Gh, Hamidi Jamnani H and Azarbonyad F. 2nd Conference on Seismology & Earthquake Engineering in Alborz Province, Oct 2015, Iran. **The investigation of story drift ratio on RC buildings equipped with DCFP Isolators against near and far-field earthquakes.**
- Abdollahzadeh Gh, Hamidi Jamnani H and Azarbonyad F. 2nd Conference on Seismology & Earthquake Engineering in Alborz Province, Oct 2015, Iran. **The study of Energy Distribution in RC buildings equipped with DCFP Isolators subjected to near and far-field earthquakes.**
- ...

Peer Review Participation:

- KSCE Journal of Civil Engineering (KSCE)
- Earthquake Engineering and Engineering Vibration (EEEV)
- International Journal of Engineering (IJE)
- Journal of Earth Science Research (JESR)
- Journal of Civil Engineering and Architecture (JCEA)
- Sharif Journal (Persian)
- Civil Eng Journal, Ferdowsi Uni (Persian)

Honors & Skills:

- Keynote speaker entitled **“The study of near source effects on response spectra”**, 8th National Congress on Civil Engineering, May 2014, Babol, Iran.

- 1st rank student, Scientific Competition Held at Student Conference of Civil Engineering, University of Mazandaran, May 2004.
- Official Certification of Seismic Retrofitting of Existing Buildings, approved by Iranian Earthquake Engineering Association (IEEA).
- Designing Software entitled “Tarabari TIM v1.3”, “calculation of Travel Interchange Matrix, using Newton's method in Transportation”, B.Sc. project.
- MATLAB, C++, Fortran
- SAP2000, ETABS, SAFE, Perform 3D
- Abaqus, Opensees, IDARC, Seismostruct
- Seismosignal, Crisis, Seisrisk, Deepsoil

Work Experience:

- Consulting Engineer for *vulnerability assessment of vital railway bridges of Iran (north-west division)*.
- Inter-university research cooperation entitled “*Retrofitting & Fortification of Steel Structures Subjected to Earthquake*”.
- Consulting Engineers, Expert Engineer; Seismic Retrofitting of *Tehran International Fair, Hall 8&9*.
- Consulting Engineer for Seismic Hazard Analysis of Tehran's central municipality building.
- Consulting Engineers, Expert Engineer; Seismic Retrofitting of the 12-story building of *Bank of Sanat-O-Madan*.
- Expert Engineer for *Seismic retrofitting of military structures*.
- Expert Engineer for *rehabilitation and design of industrial structures (SAIPA group)*.
- Member of Iranian Construction Engineers Organization, Province of Tehran/Mazandaran.
- ...