

## CURRICULUM VITAE

**GHODRATI AMIRI, Gholamreza**

### PERSONAL INFORMATION

Profession: University Professor  
University Rank: Professor  
Date of Birth: March 21, 1966  
Citizenship: Iranian  
Languages: Persian, English

University Address: School of Civil Engineering  
Iran University of Science & Technology  
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### UNIVERSITY EDUCATION

- 9/93 - 2/97 Ph.D., Civil Engineering-Earthquake Engineering, McGill University, Montreal, CANADA.
- 2/90 - 9/92 M.Sc., Civil Engineering-Structural Engineering, Sharif University of Technology, Tehran, IRAN. (GPA = 18.30 out of 20, Rank of graduation = first {simultaneously with another student})
- 9/84 - 2/89 B.Sc., Civil Engineering-Civil Engineering, Sharif University of Technology, Tehran, IRAN. (GPA = 17.01 out of 20, Rank of graduation = honour)

### THESES

*Seismic Sensitivity of Tall Guyed Telecommunication Towers*, Doctoral dissertation, Department of Civil Engineering and Applied Mechanics, McGill University, Montreal, Canada, Feb. 1997.

*Ductility of Confined and Unconfined, High-Strength and Normal Reinforced Concrete Flexural Members*, Master's Thesis, Department of Civil Engineering, Sharif University of Technology, Tehran, Iran, Sept. 1992. (in Persian)

G. Ghodrati Amiri's PhD work is published in: Madugula, M.K.S. (2001). "Dynamic Response of Lattice Towers and Guyed Masts." Task Committee on the Dynamic Response of Lattice Towers, American Society of Civil Engineers (ASCE), 266 p. (ISBN: 0-7844-0599-9)

G. Ghodrati Amiri's PhD work is referenced in: Canadian Standard Association (2001). "CSA Standard S37-1, Antennas, Towers, and Antenna-Supporting Structures; Appendix M: Earthquake-Resistant Design of Towers." Canada.

## QUALIFICATION EXAMS & SCHOLARSHIP

Passed Iran National Board Examination to enter M.Sc. and Ph.D. (for abroad) programs in Civil Engineering with the rank of 7 out of all Civil Engineering participants in Iran. The Ministry of Science, Research & Technology of Iran (via National Organization for Educational Testing (Sanjesh)) administered this exam in June 1989.

Passed Iranian Universities Entrance Exam to enter B.Sc. program in Civil Engineering with first rank out of all Civil Engineering participants in Region 2 (out of 5) in Iran. The Ministry of Science, Research & Technology of Iran (via National Organization for Educational Testing (Sanjesh)) administered this exam in June 1984.

Ph.D. scholarship for doctoral studies at McGill University awarded by the Ministry of Science, Research & Technology of Iran in June 1993.

## ACADEMIC EXPERIENCE

2/98 -present School of Civil Engineering, Iran University of Science & Technology, Tehran, Iran.

**Professor (04/07 - .....)**

**Associate Professor (5/03 - 03/07)**

**Assistant Professor (2/98 - 5/03)**

*Ph.D. Level Teaching:* Random Vibration of Structures, Non-linear Dynamic Analysis of Structures.

*M.Sc. Level Teaching:* Seismic Risk Analysis, Earthquake Engineering.

*B.Sc. Level Teaching:* Statics, Dynamics, Loading, Earthquake Engineering, Strength of Materials, Laboratory of Strength of Materials, Design of Steel Structures.

2/02 – 2/12 Building and Housing Research Center, Tehran, Iran.

**Visiting Professor**

M.Sc. Level Teaching: Seismic Risk Analysis.

9/93 - 2/97 Department of Civil Engineering and Applied Mechanics, McGill University, Montreal, Canada.

**Teaching Assistant**

*M.Sc. Level:* Structural Dynamics, Matrix Structural Analysis.

*B.Sc. Level:* Solid Mechanics, Structural Engineering I, Structural Design I.

## RESEARCH INTERESTS

- 1) Seismic Hazard Assessment and Artificial Earthquake
- 2) Seismic Assessment and Retrofit of Structures
- 3) Damage Detection and Health Monitoring
- 4) Seismic Base Isolation

## **ACADEMIC & PROFESSIONAL POSITIONS**

- 6/16–present    Dean of School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.  
7/08 – 6/11
- 2/01 – 7/06    Director of Graduate Studies, School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.
- 7/15 – 9/16    Head of Department of Structural Engineering, School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.
- 1/16–present    Head of Concrete Technology and Construction Material Laboratory, School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.
- 7/00 – 6/04    Representative of School of Civil Engineering in International & Scientific Collaborations Office, Iran University of Science & Technology, Tehran, IRAN.
- 3/00 – 3/11    Director of Construction of Shaking (Earthquake) Table Laboratory, School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.
- 1/05–present    Member of Center of Excellence for Fundamental Studies in Structural Engineering, School of Civil Engineering, Iran University of Science & Technology, Tehran, IRAN.
- 10/19–present    Member of Permanent Committee of Iranian Code of Practice for Seismic Resistant Design of Buildings, Standard No. 2800 (5th Edition), Road, Housing and Development Research Center, Ministry of Roads and Urban Development, IRAN.
- 10/19-present    Member of Committee of Codification of National Program for Risk Mitigation of Disasters, Natural Disasters Research Institute, State Disaster Management Organization, Tehran, IRAN.
- 2019 Version    Member of Supervision Group, Seismic Performance Base Design Instructions for Structural and Non-Structural Elements of Hospitals, Management and Planning Organization, IRAN.
- 11/13 – 2/19    Member of Technical and Engineering Workgroup, Iran National Science Foundation (INSF), IRAN.
- 2015 Version    Member of Design Spectrum and Soil Type Classification Workgroup, Iranian Code of Practice for Seismic Resistant Design of Buildings, Standard No. 2800 (4th Edition), Road, Housing and Development Research Center, Ministry of Roads and Urban Development, IRAN.

- 7/11–present Member and Head (for Version 1392) of Technical Committee of Chapter 6 (Loads on Building) - Iranian National Building Code, Ministry of Roads and Urban Development, IRAN.
- 3/13 – 3/14 Member of Technical Committee of Chapter 10 (Design and Construction of Steel Buildings) - Iranian National Building Code, Ministry of Roads and Urban Development, IRAN.
- 3/09 – 3/11 Member of Technical Committee of Building Construction Provisions on Fault Zone in Tehran, Tehran Disaster Mitigation and Management Organization, Tehran Municipality, IRAN.
- 1/10–present Member of Technical Committee of Civil Engineering, Iranian National Building Code, Ministry of Roads and Urban Development, IRAN.
- 1/09 – 12/16 Member of Technical Committee of Retrofitting of School Buildings and Senior Consultant (1/07-12/16; as Program Director of Seismic Retrofitting of School Buildings, 6/07-7/13), State Organization of Schools Renovation, Development and Mobilization, Ministry of Education, IRAN.
- 1/16–present Member of Safe Schools Technical Workgroup in Worldwide Initiative for Safe Schools-United Nations International Strategy for Disaster Reduction (UNISDR), State Organization of Schools Renovation, Development and Mobilization, Ministry of Education, IRAN.
- 3/18– present Member of Council of "Policy-Making and Strengthening Leadership and Application of Novel Technologies in School Buildings", State Organization of Schools Renovation, Development and Mobilization, Ministry of Education, IRAN.
- 3/19– present Member of Hazard Analysis Workgroup, Project of Improving the Multi-Hazard Resilience of Hospitals in Iran (BEHTAB Project), United Nation Human Settlements Programme (UN Habitat), Road, Housing and Development Research Center, IRAN.
- 6/16 – 9/18 Member of Board of Retrofitting Check, Tehran Engineering and Development Organization, Deputy of Technical & Development Affairs, Municipality of Tehran, IRAN.
- 2016 Version Member of Revising and Preparing Workgroup, Guidelines for Seismic Evaluation & Retrofit for Petroleum Facilities (2nd Edition) - Publication No. 041-2016, Deputy of Engineering, Research and Technology, Ministry of Petroleum, IRAN.
- 2014 Version Member of Editorial Committee, Design and Construction Instructions for Lightweight Steel Framing System, Management and Planning Organization, IRAN.
- 1/17 – 4/17 Member of Technical Committee for Investigation of Technical, Management and Legal Aspects of the Fire and Collapse Event of Plasco Building, Islamic

Council of Tehran City, Municipality of Tehran, IRAN.

- 9/14 – 9/15 Member of Training, Research and Promotion Workgroup, Iranian National Building Code, Ministry of Roads and Urban Development, IRAN.
- 1/09 – 3/11 Faculty Member of Research Council, Road Maintenance & Transportation Organization, Ministry of Roads and Transportation, IRAN.
- 12/14–present Member of Training Committee, Organization for Engineering Order of Building - Tehran, IRAN.
- 2011 – 2015 Scientific Secretary, Iranian National Conference on Disaster Management, State Disaster Management Organization, Ministry of Interior, Tehran, IRAN. (First Conference in 2011, Second Conference in 2012, Third Conference in 2015).
- 9/11 – 9/12 Member of Assessment Committee, National Elites Foundation, Tehran, IRAN.
- 12/10 – 12/11 Member of Technical Committee of Seismic Retrofitting, Tehran Province Gas Company, Tehran, IRAN.
- 7/08–present Head of Board of Founders, Aryan Institute of Science and Technology, Ministry of Science, Research and Technology, Babol, IRAN.
- 5/09 – 5/11 Member of Audit (Promotion) Board, Iran University of Science & Technology,  
9/18– present Tehran, IRAN.
- 6/10 – 4/19 Member of Audit (Promotion) Board and Minister Representative (from 12/14 to 12/16), University of Zanjan, IRAN.
- 5/13 – 5/15 Member of Audit (Promotion) Board, University of Qom, IRAN.
- 10/12 - 10/14 Member of Audit (Promotion) Board, Institute for Advanced Studies in Basic Sciences of Zanjan, IRAN.
- 11/12 – 11/14 Member of Joint Audit (Promotion) Board, Power & Water University of Technology, Power (Niroo) Research Institute, Power & Water Institute of Applied Science, Water Research Institute, Tehran, IRAN.
- 11/16 – 11/18 Member of Joint Audit (Promotion) Board, Educational and Research Institutes affiliated to the Ministry of Education, Tehran, IRAN.
- 8/07 - 8/09 Member of Audit (Promotion) Board, State Organization of Schools Renovation, Development and Mobilization, Ministry of Education, IRAN.

#### **ACADEMIC HONOUR**

- Feb. 2017 National Premier Engineer, Elected by the Referees Committee of Iranian Society of Structural Engineering.

#### **REVIEWER OF INTERNATIONAL JOURNALS**

Journal of Earthquake Engineering (Taylor & Francis)  
 Soil Dynamics and Earthquake Engineering (Elsevier)  
 Engineering Structures (Elsevier)  
 Journal of Sound and Vibration (Elsevier)  
 Smart Materials and Structures (IOP science)  
 Journal of Vibration and Control (Sage)  
 Engineering Failure Analysis (Elsevier)  
 Structure and Infrastructure Engineering (Taylor & Francis)  
 Advances in Engineering Software (Elsevier)  
 Structural Design of Tall and Special Buildings (John Wiley & Sons Inc.)  
 International Journal of Structural Stability and Dynamics (World Scientific)  
 Inverse Problems in Science & Engineering (Taylor & Francis)  
 Structures (Elsevier)  
 Steel and Composite Structures, An International Journal (Techno Press)  
 Engineering Computations (Emerald Publishing)  
 Applied Mathematical Modelling (Elsevier)  
 Journal of Applied Geophysics (Elsevier)  
 Journal of African Earth Sciences (Elsevier)  
 Mathematical Problems in Engineering (Hindawi)  
 Structural Engineering and Mechanics, An International Journal (Techno Press)  
 Smart Structures and Systems, An International Journal (Techno Press)  
 Earthquake Engineering and Engineering Vibration (Springer)  
 Shock and Vibration (IOS Press)  
 Advances in Structural Engineering (Sage)  
 Structures and Buildings (ice)  
 Earthquakes and Structures, An International Journal (Techno Press)  
 European Journal of Environmental and Civil Engineering (Taylor & Francis)  
 Computers and Concrete, An International Journal (Techno Press)  
 Scientia Iranica  
 International Journal of Civil Engineering (Springer)  
 Iranian Journal of Science and Technology Transactions of Civil Engineering (Springer)

#### **MEMBER OF EDITORIAL BOARD**

9/17–present International Journal of Civil Engineering, Iran University of Science & Technology, Tehran, Iran.  
 11/09–present Modares Civil Engineering Journal, Tarbiat Modares University, Tehran, Iran.  
 11/09–present Journal of Civil Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.  
 3/07–present Journal of Modelling in Engineering, Semnan University, Semnan, Iran.  
 10/09–present Journal of Technology of Education, Shahid Rajaei Teacher Training University, Tehran, Iran.  
 2011–present International Journal of Earth Sciences and Engineering, National Institute of Technology Karnataka, Karnataka, India.

## **RESEARCH PROJECTS**

- 7/17-presnt *Qualitative Vulnerability Evaluation Studies of 20 Bridges of Tehran Metro Line 5*, Tehran Engineering and Development Organization, Deputy of Technical & Development Affairs, Municipality of Tehran, Iran.
- 6/17-presnt *Structural and Seismic Retrofitting Studies (Phases 1 and 2) of Junction Bridge of Tehran Metro Line 5 and Sadeghieh Metro Station and Supervising Material Test Services (if necessary)*, Tehran Engineering and Development Organization, Deputy of Technical & Development Affairs, Municipality of Tehran, Iran.
- 2/18-present *Development and Analysis of Building Information Modeling (BIM) for Towerij Residential Complex in Tabriz*, Iran Sazeh Company, Iran.
- 11/16-presnt *Study of Structural Health Monitoring and Building Management System for Javadyeh Bridge in Tehran*, Tehran Engineering and Development Organization, Deputy of Technical & Development Affairs, Municipality of Tehran, Iran.
- 3/10- 12/15 *Guideline for Vulnerability Evaluation and Retrofitting Methods of Jetties in Iranian Ports*, Transportation Research Institute, Ministry of Road and Transportation, Tehran, Iran.
- 3/08 - 7/12 *Development of Iranian Code for As-Built Drawings for Road and Railway Bridges with Seismic Retrofitting Purpose*, Transportation Research Institute, Ministry of Road and Transportation, Tehran, Iran.
- 5/06 - 7/07 *Seismic Hazard Analysis and Design Spectrum Development of Ramshar New City*, Moghavemshahr Company.
- 2/06 - 7/06 *Seismic Hazard Analysis of No. 2 Omid Building*, Omid Leasing Company, Tehran, Iran.
- 6/04 - 3/05 *Development of Attenuation Relationships for Iran*, Iran Water Resources Management Organization, Ministry of Energy, Tehran, Iran.
- 3/01 - 9/04 *Determining Seismic Parameters of Zagros Region in Iran*, Inter-University Research Collaboration Project, Iran University of Science & Technology and Kordestan University, Management and Planning Organization, Iran.

## **PROFESSIONAL CONSULTATION FIELDS TO INDUSTRIES**

Seismic Hazard Assessment for a Project Site

Seismic Design and Retrofitting of Structures

Structural Assessment and Repair of Structures

Seismic Base Isolation

## **PROFESSIONAL CONSULTATION TO INDUSTRIES**

- 6/11–Present Natural Disasters Research Institute (Tehran-Iran), Seismic Hazard Assessment for the Provinces of Zanzan and Bushehr.
- 4/10–Present Robinson Seismic Ltd. (New Zealand Company) Agent in Iran, Seismic Design and Retrofitting of Structures using Seismic Base Isolation System.
- 6/09–Present Tehran’s Great Mosala (Tehran-Iran), Seismic Design and Retrofitting of Structures.
- 9/07–Present Seism Ground Structures Company (Tehran-Iran), Seismic Hazard Assessment; Seismic Design, Repair and Retrofitting of Structures.
- 6/15 – 6/18 Maurer Company (German Company) Agent in Iran, Seismic Design and Retrofitting of Structures using Seismic Base Isolation System.
- 3/11 - 7/11 GhodsNeiro Engineering Company (Tehran-Iran), Structural Assessment and Design of Cooling Tower of Hamedan Electrical Power Plant.
- 6/04 – 6/11 Behmansaz-Sabz-Pars Company (Tehran-Iran), Seismic Hazard Assessment & Retrofitting of Structures.
- 3/06 – 3/11 Iran Railways (Tehran-Iran), Seismic Retrofitting of Central Station Buildings in Tehran.
- 7/03 – 12/08 Government Hospitals and Offices – Seismic retrofitting program (Tehran-Iran), Seismic Retrofitting of Hospital and Office Buildings.
- 9/04 – 3/08 Iranian Resources and Engineering Management Company (Tehran-Iran), Seismic Retrofitting of Structures.
- 6/05 – 5/06 Tehran Municipality Region 2 (Tehran-Iran), Structural Design of Buildings.
- 6/04 – 1/05 Urban Renewal Organization of Tehran (Tehran-Iran), Structural Design of Buildings.
- 4/03 – 9/04 Ardebil and East Azerbaijan Regional Water Authority (Tabriz-Iran), Seismic Hazard Assessment of 2 Dam Projects Sites (Lilan Chay and Kharajo Chay).
- 10/99 – 1/01 Iranian Telephone Planning and Development Company (Tehran-Iran), Structural Analysis, Design, and Construction of Telecommunication Towers.
- 6/97 – 8/97 Iran Broadcasting (Tehran-Iran), Structural Stability Control of Zibakenar TV Guyed Tower.
- 2/89 – 6/93 Darya-Pay Company (Tehran-Iran), Structural Analysis and Design of Jetties.
- 2/89 – 12/90 Jaheshsaz Institute, Sharif University of Technology (Tehran-Iran), Structural Analysis and Design of Industrial Buildings with Precast Concrete Members.

## **MEMBERSHIPS**

- 2011-present Member of Board of Directors of Iranian Association of Lightweight Structures, Tehran, Iran.
- 2015-present Member of Board of Directors of Iranian Society of Structural Engineering, Tehran, Iran.
- 2/01-present Member of Organization for Engineering Order of Building - Tehran, Professional Civil Engineer (Grade One).
- 1995-2000 Earthquake Engineering Research Institute (EERI), Oakland, CA, USA.
- 1/95-1/98 Canadian Association for Earthquake Engineering (CAEE), CANADA.  
7/19-present

## **PROFESSIONAL LICENCES**

- Feb. 2001 Professional Civil Engineer (Grade One - Design, Supervision and Construction of Buildings), Organization for Engineering Order of Building – Tehran, Iran.
- Sept. 2004 Official Expert of Justice; Field of Road and Building; The Lawyers, Official Experts and Family Consultants Center of Iran Judiciary; Tehran; Iran.
- Jan. 2007 General Expert in Building, Organization for Engineering Order of Building – Tehran, Iran.
- May 2013 Expert, Field of Building Engineering, Materials and Products, National Standard Organization of Iran.

## **JOURNAL PAPERS**

### **JOURNAL (ISI)**

Keikha, H. and Ghodrati Amiri, G. (2019). “Numerical Development and Assessment of 3D Quintuple Friction Pendulum Isolator Element Based on Its Analytical and Mathematical Models.” *Journal of Earthquake Engineering*, DOI: 10.1080/13632469.2019.1643808.

Rajabi, E. and Ghodrati Amiri, G. (2019). “Generation of Critical Aftershocks Using Stochastic Neural Networks and Wavelet Packet Transform.” *Journal of Vibration and Control*, DOI: 10.1177/1077546319879536.

Mohamadi Dehcheshmeh, M., Zare Hosseinzadeh, A. and Ghodrati Amiri, G. (2019). “Feasibility Study on Model-Based Damage Detection in Shear Frames Using Pseudo Modal Strain Energy.” *Smart Structures and Systems*. (accepted in Aug. 2019)

Salarpour, H., Ghodrati Amiri, G. and Meysam Mousavi, S. (2019). “A Hierarchical Group Decision Approach Based on DEMATEL and Dynamic Hesitant Fuzzy Sets to Evaluate Sustainability Criteria for Strategic Management of Housing Market Problem.” *Journal of Intelligent & Fuzzy Systems*, Vol. 37, 821-833, DOI: 10.3233/JIFS-181482.

Keikha, H. and Ghodrati Amiri, G. (2019). “Seismic Performance Assessment of Quintuple Friction Pendulum Isolator with a Focus on Frictional Behavior Impressionability from Velocity and Temperature.” *Journal of Earthquake Engineering*, DOI: 10.1080/13632469.2019.1568929.

Zare Hosseinzadeh, A., Ghodrati Amiri, G., Jafarian Abyaneh, M., Seyed Razzaghi, S.A. and Ghadimi Hamzehkolaei, A. (2019). “Baseline Updating Method for Structural Damage Identification Using Modal Residual Force and Grey Wolf Optimization.” *Engineering Optimization*, DOI: 10.1080/0305215X.2019.1593400.

Babajanian Bisheh, H., Ghodrati Amiri, G., Nekooei, M. and Darvishan, E. (2019). “Damage Detection of a Cable-Stayed Bridge Using Feature Extraction and Selection Methods.” *Structure and Infrastructure Engineering*, Vol. 15, No. 9, 1165–1177, DOI: 10.1080/15732479.2019.1599964.

Mohamadi Dehcheshmeh, M., Ghodrati Amiri, G., Zare Hosseinzadeh, A. and Torbatinejad, V. (2019). “Structural Damage Detection Based on Modal Data Using Moth-Flame Optimisation Algorithm.” *Structures and Buildings*, DOI: 10.1680/jstbu.18.00121.

Zare Hosseinzadeh, A., Seyed Razzaghi, S.A. and Ghodrati Amiri, G. (2019). “An Iterated IRS Technique for Cross-Sectional Damage Modelling and Identification in Beams Using Limited Sensors Measurement.” *Inverse Problems in Science & Engineering*, Vol. 27, No. 8, 1145–1169, DOI: 10.1080/17415977.2018.1503259.

Chalekaee, A., Turskis, Z., Khanzadi, M., Ghodrati Amiri, G. and Keršulienė, V. (2019). “A New Hybrid MCDM Model with Grey Numbers for the Construction Delay Change Response Problem.” *Sustainability*, Vol. 11, No. 3, 776, DOI: 10.3390/su11030776.

Yakhchalian, M. and Ghodrati Amiri, G. (2019). “A Vector Intensity Measure to Reliably Predict Maximum Drift in Low- to Mid-rise Buildings.” *Structures and Buildings*, Vol. 172, No. 1, 42-54, DOI: 10.1680/jstbu.17.00040.

Shirzadi Javid, A., Ghoddousi, P., Ghodrati Amiri, G. and Donyadideh, K. (2019). “A New Photogrammetry Method to Study the Relationship Between Thixotropy and Bond Strength of Multi-Layers Casting of Self-Consolidating Concrete.” *Construction and Building Materials*, Vol. 204, 530-540, DOI: 10.1016/j.conbuildmat.2019.01.204.

Salarpour, H., Ghodrati Amiri, G. and MeysamMousavi, S. (2019). “Criteria Assessment in Sustainable Macromanagement of Housing Provision Problem by a Multi-Phase Decision Approach with DEMATEL and Dynamic Uncertainty.” *Arabian Journal for Science and Engineering*, Vol. 44, 530-540, 7313–7333, DOI: 10.1007/s13369-019-03816-8.

Bararnia, M., Hassani, N., Ganjavi, B. and Ghodrati Amiri, G. (2018). “Estimation of Inelastic Displacement Ratios for Soil-Structure Systems with Embedded Foundation considering Kinematic and Inertial Interaction Effects.” *Engineering Structures*, Vol. 159, 252–264, DOI: 10.1016/j.engstruct.2018.01.002.

Hassani, N., Bararnia, M. and Ghodrati Amiri, G. (2018). “Effect of Soil-Structure Interaction on Inelastic Displacement Ratios of Degrading Structures.” *Soil Dynamics and Earthquake*

*Engineering*, Vol. 104, 75–87, DOI: 10.1016/j.soildyn.2017.10.004.

Ghodrati Amiri, G. and Rajabi, E. (2018). “Maximum Damage Prediction for Regular Reinforced Concrete Frames under Consecutive Earthquakes.” *Earthquakes and Structures*, Vol. 14, No. 2, 129-142, DOI: 10.12989/eas.2018.14.2.129.

Ghodrati Amiri, G. and Rajabi, E. (2018). “Effects of Consecutive Earthquakes on Increased Damage and Response of Reinforced Concrete Structures.” *Computers and Concrete*, Vol. 21, No. 1, 55-66, DOI: 10.12989/cac.2018.21.1.055.

Gholamrezatabar, A., Ghodrati Amiri, G., Shayanfar, M.A. and Ganjavi, B. (2018). “Modified Seismic Design Lateral Force Distribution for the Performance-Based Plastic Design (PBPD) of Steel Moment Structures Considering Soil Flexibility.” *Scientia Iranica*. (accepted in Aug. 2018)

Mahmoodi Kordkheili, H., Ghodrati Amiri, G. and Hosseini, M. (2018). “Axisymmetric Wave Propagation of Thermoelastic Transversely Isotropic Half-Space Under Buried Loading Using Potential Functions.” *Waves in Random and Complex Media*, Vol. 28, No. 4, 760-783, DOI: 10.1080/17455030.2018.1468120.

Dabbagh, H., Ghodrati Amiri, G. and Shaabani, S. (2018). “Modal Data Based Approach for Structural Damage Identification by Means of Imperialist Competitive Optimization Algorithm.” *Scientia Iranica*, Vol. 25, No. 3, 1070-1082, DOI: 10.24200/sci.2017.4590.

Ghoddousi, P., Shirzadi Javid, A., Ghodrati Amiri, G. and Donyadideh, K. (2018). “Predicting the Formwork Lateral Pressure of Self-Consolidating Concrete Based on Experimental Thixotropy Values.” *International Journal of Civil Engineering*, DOI: 10.1007/s40999-018-0368-y.

Bagheri, A., Zare Hosseinzadeh, A., Rizzo, P. and Ghodrati Amiri, G. (2017). “Time Domain Damage Localization and Quantification in Seismically Excited Structures Using a Limited Number of Sensors.” *Journal of Vibration and Control*, Vol. 23, No. 18, 2942-2961, DOI: 10.1177/1077546315625141.

Zare Hosseinzadeh, A., Ghodrati Amiri, G. and Seyed Razaghi, S.A. (2017). “Model-Based Identification of Damage from Sparse Sensor Measurements Using Neumann Series Expansion.” *Inverse Problems in Science & Engineering*, Vol. 25, No. 2, 239-259. DOI: 10.1080/17415977.2016.11060393.

Ghodrati Amiri, G. and Rajabi, E. (2017). “Damage Evaluation of Reinforced Concrete and Steel Frames under Critical Successive Scenarios.” *International Journal of Steel Structures*, Vol. 17, No. 4, 1495-1514, DOI: 10.1007/s13296-017-1218-5.

Mansouri, I., Ghodrati Amiri, G., WanHu, J., Khoshkalam, M., Soori, S. and Shahbazi, S. (2017). “Seismic Fragility Estimates of LRB Base Isolated Frames Using Performance-Based Design.” *Shock and Vibration*. Vol. 2017, Article ID 5184790, 20 pages, DOI: 10.1155/2017/5184790.

Gholamrezatabar, A., Ghodrati Amiri, G., Shayanfar, M.A. and Ganjavi, B. (2017). “Estimation of Inelastic Displacement Factor of Soil-Shallow-Foundation MDOF Systems

Incorporating Higher Modes Effect.” *The Structural Design of Tall and Special Buildings*, DOI: 10.1002/tal.1402.

Khanzadi, M., Turskis, Z., Ghodrati Amiri, G. and Chalekaee, A. (2017). “A Model of Discrete Zero-Sum Two-Person Matrix Games with Grey Numbers to Solve Dispute Resolution Problems in Construction.” *Journal of Civil Engineering and Management*, Vol. 23, No. 6, 824-835, DOI: 10.3846/13923730.2017.1323005.

Hosseini, S.M. and Ghodrati Amiri, G. (2017). “Successive Collapse Potential of Eccentric Braced Frames in Comparison with Buckling-Restrained Braces in Eccentric Configurations.” *International Journal of Steel Structures*, Vol. 17, No. 2, 481-489, DOI 10.1007/s13296-017-6008-6.

Ghodrati Amiri, G., Shakouri, A., Veismoradi, S. and Namiranian, P. (2017). “Effect of Seismic Pounding on Buildings Isolated by Triple Friction Pendulum Bearing.” *Earthquakes and Structures*, Vol. 12, No. 1, 35-45, DOI: 10.12989/eas.2017.12.1.035.

Yakhchalian, M., Ghodrati Amiri, G. and Eghbali, M. (2017). “Reliable Seismic Collapse Assessment of Short-Period Structures Using New Proxies for Ground Motion Record Selection.” *Scientia Iranica*, Vol. 24, No. 5, 2283-2293, DOI: 10.24200/sci.2017.4162.

Naderpour, H., Ezzodin, A., Kheyroddin, A. and Ghodrati Amiri, G. (2017). “Signal Processing Based Damage Detection of Concrete Bridge Piers Subjected to Consequent Excitations.” *Journal of Vibroengineering*, Vol. 19, Issue 3, 2080-2089.

Hassani, N., Ghodrati Amiri, G., Bararnia, M. and Sinaeian, F. (2017). “Ground Motion Prediction Equation for Inelastic Spectral Displacement in Iran”, *Scientia Iranica*, Vol. 24, No. 1, 164-182.

Mahmoodi Kordkheili, H., Ghodrati Amiri, G. and Hosseini, M. (2017). “Axisymmetric Analysis of a Thermoelastic Isotropic Half-Space under Buried Sources in Displacement and Temperature Potentials.” *Journal of Thermal Stresses*, Vol. 40, No. 2, 237-254. DOI: 10.1080/01495739.2016.1234342.

Eghbali, M., Asadian, E., Ghodrati Amiri, G. and Razavian Amrei, S.A. (2017). “Seismic Performance of Steel Frames Equipped with Buckling-Restrained Braces (BRBs) Using Nonlinear Static and Dynamic Analyses.” *Journal of Vibroengineering*, Vol. 19, Issue 2, 1131-1146, DOI:10.21595/jve.2016.16578.

Ghodrati Amiri, G., Namiranian, P. and Shamekhi Amiri, M. (2016). “Seismic Response of Triple Friction Pendulum Bearing under Near-Fault Ground Motions.” *International Journal of Structural Stability and Dynamics*, Vol. 16, 1550021 (32 pages), DOI: 10.1142/S0219455415500212.

Zare Hosseinzadeh, A., Ghodrati Amiri, G., Seyed Razzaghi, S.A., Koo, K.Y. and Sung, S.H. (2016). “Structural Damage Detection Using Sparse Sensors Installation by Optimization Procedure Based on the Modal Flexibility Matrix.” *Journal of Sound and Vibration*, Vol. 381, 65-82, DOI: 10.1016/j.jsv.2016.06.037.

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