

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 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 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 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 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, Strength of Materials.

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.
- 11/13–present 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), 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 (01/07-12/16), 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.

- 6/16–present 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.

- 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)

- 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, Tehran, IRAN.

- 6/10– present Member of Audit (Promotion) Board and Minister Representative (from 12/14 to 12/16), University of Zanjan, IRAN.

- 5/13 – 5/2015 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 and Power Research Institute, Power & Water Institute of Applied

Science, Water Research Institute, Tehran, IRAN.

11/16–present Member of Joint Audit (Promotion) Board, Educational and Research Institutes affiliated to the Ministry of Education, Tehran, IRAN.

08/07 - 08/09 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)

Journal of Vibration and Control (Sage)

Engineering Structures (Elsevier)

Applied Mathematical Modelling (Elsevier)

Journal of Sound and Vibration (Elsevier)

The Structural Design of Tall and Special Buildings

Inverse Problems in Science & Engineering (Taylor & Francis)

Smart Structures and Systems, An International Journal (Techno Press)

Journal of Applied Geophysics (Elsevier)

International Journal of Structural Stability and Dynamics (World Scientific)

Shock and Vibration (IOS Press)

Steel and Composite Structures, An International Journal (Techno Press)

Structural Engineering and Mechanics, An International Journal (Techno Press)

Computers and Concrete, An International Journal (Techno Press)

Earthquakes and Structures, An International Journal (Techno Press)

Earthquake Engineering and Engineering Vibration (Springer)

Structures and Buildings

Mathematical Problems in Engineering (Hindawi)

Iranian Journal of Science and Technology Transactions of Civil Engineering

MEMBER OF EDITORIAL BOARD

Modares Civil Engineering Journal, Tarbiat Modares University, Tehran, Iran (11/09 – present)

Journal of Civil Engineering, Ferdowsi University of Mashhad, Mashhad, Iran (11/09 – present)

Journal of Modelling in Engineering, Semnan University, Semnan, Iran (3/07 – present)

Journal of Technology of Education, Shahid Rajaei Teacher Training University, Tehran, Iran (10/09 – present)

International Journal of Earth Sciences and Engineering, National Institute of Technology Karnataka, Karnataka, India (2011 – present)

RESEARCH PROJECTS

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, 11/2016-present.

Guideline for Vulnerability Evaluation and Retrofitting Methods of Jetties in Iranian Ports, Transportation Research Institute, Ministry of Road and Transportation, Tehran, Iran, 3/2010-12/2015.

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, 3/2008-7/2012.

Seismic Hazard Analysis and Design Spectrum Development of Ramshar New City, Moghavemshahr Company, 5/2006-7/2007.

Seismic Hazard Analysis of No. 2 Omid Building, Omid Leasing Company, Tehran, 2/2006-7/2006.

Development of Attenuation Relationships for Iran, Iran Water Resources Management Organization, Ministry of Energy, Tehran, Iran, 6/2004-3/2005.

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, 3/2001-9/2004.

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 MEMBERSHIPS

Member of Board of Directors of Scientific Association of Lightweight Steel Framing, Tehran, Iran. (2011-present)

Member of Board of Directors of Iranian Society of Structural Engineering, Tehran, Iran. (2015-present)

Organization for Engineering Order of Building - Tehran, **Grade One**. (2000-present)

Earthquake Engineering Research Institute (EERI), Oakland, CA, USA. (1995-2000)

Canadian Association for Earthquake Engineering (CAEE), CANADA. (1995-1998)

JOURNAL PAPERS

JOURNAL (ISI)

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., 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.

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, pp. 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.

Dabbagh, H., Ghodrati Amiri, G. and Shaabani, S. (2016). "Modal Data Based Approach for Structural Damage Identification by Means of Imperialist Competitive Optimization Algorithm." *Scientia Iranica*. (accepted in Oct. 2016)

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.

Pahlavan, H., Zakeri, B. and Ghodrati Amiri, G. (2016). "Probabilistic Performance Assessment of Retrofitted Horizontally Curved Multi-Frame RC Box-Girder Bridges." *Journal of Earthquake and Tsunami*, 1750010 (30 pages),
DOI: 10.1142/S1793431117500105.

Veismoradi, S., Ghodrati Amiri, G. and Darvishan, E. (2016). "Probabilistic Seismic Assessment of Buckling Restrained Braces and Yielding Brace Systems." *International Journal of Steel Structures*, Vol. 16, No. 3, 1-13, DOI 10.1007/s13296-016-.

Hosseini, S.M. and Ghodrati Amiri, G. (2016). "Successive Collapse Potential of Eccentric Braced Frames in Comparison with Buckling-Restrained Braces in Eccentric Configurations." *International Journal of Steel Structures*. (accepted in Sept. 2016)

Zare Hosseinzadeh, A., Ghodrati Amiri, G. and Koo, K.Y. (2016). "Optimization-Based Method for Structural Damage Localization and Quantification by Means of Static Displacements Computed By Flexibility Matrix." *Engineering Optimization*, Vol. 48, No. 4, 543-561, DOI: 10.1080/0305215X.2015.1017476.

Bagheri, A., Zare Hosseinzadeh, A., Rizzo, P. and Ghodrati Amiri, G. (2016). "Time Domain Damage Localization and Quantification in Seismically Excited Structures Using a Limited Number of Sensors." *Journal of Vibration and Control*, DOI: 10.1177/1077546315625141 jvc.sagepub.com.

Abbasi, M., Abedini, M., Zakeri, B. and Ghodrati Amiri, G. (2016). "Seismic Vulnerability Assessment of a Californian Multi-Frame Curved Concrete Box Girder Viaduct Using Fragility Curves." *Structure and Infrastructure Engineering*, Vol. 12, No. 12, 1585-1601. DOI: 10.1080/15732479.2016.1152586.

Ghodrati Amiri, G., Mohammadian Shalmaee, M. and Namiranian, P. (2016). "Evaluation of a DDB Design Method for Bridges Isolated with Triple Pendulum Bearings." *Structural Engineering and Mechanics*, Vol. 59, No. 5, 803-820, DOI: 10.12989/sem.2016.59.5.803.

Razeghi, H.R., Ghodrati Amiri, G., Razavian Amrei, S.A. and Rahimi, M.A. (2016). "Probabilistic Seismic Hazard Analyses and Obtaining Uniform Hazard Spectra of Tabriz, Iran." *KSCE Journal of Civil Engineering*, Vol. 20, No. 5, 1813-1823, DOI: 10.1007/s12205-015-0175-9.

Namiranian, P., Ghodrati Amiri, G. and Veismoradi, S. (2016). "Near-Fault Seismic Performance of Triple Variable Friction Pendulum Bearing." *Journal of Vibroengineering*, Vol. 18, Issue 4, 2293-2303.

Zamani Noori, H., Ghodrati Amiri, G., Nekooei, M. and Zakeri, B. (2016). "Seismic Fragility Assessment of Skewed MSSS-I Girder Concrete Bridges with Unequal Height Columns." *Journal of Earthquake and Tsunami*, Vol. 10, No. 1, 1550013 (16 pages), DOI: 10.1142/S179343111550013X.

Pahlavan, H., Zakeri, B., Ghodrati Amiri, G., and Shaianfar, M. (2016). "Probabilistic Vulnerability Assessment of Horizontally Curved Multiframe RC Box-Girder Highway Bridges." *J. Perform. Constr. Facil.*, Vol. 30, Issue 3, 10.1061/(ASCE)CF.1943-5509.0000780 , 04015038.

Abbasi, M., Zakeri, B., and Ghodrati Amiri, G. (2016). "Probabilistic Seismic Assessment of Multiframe Concrete Box-Girder Bridges with Unequal-Height Piers." Vol. 30, Issue 2, *J. Perform. Constr. Facil.*, 10.1061/(ASCE)CF.1943-5509.0000753 , 04015016.

Farokhzad, R., Mohebi, B., Ghodrati Amiri, G. and Ghafory Ashtiany, M. (2016). "Detecting Structural Damage in Timoshenko Beams Based on Optimization via Simulation (OVS)." *Journal of Vibroengineering*, Vol. 18, Issue 8, 5074-5095, DOI: 10.21595/jve.2016.16681.

Yakhchalian, M., Ghodrati Amiri, G. and Eghbali, M. (2016). "Reliable Seismic Collapse Assessment of Short-Period Structures Using New Proxies for Ground Motion Record Selection." *Scientia Iranica*. (accepted in July 2016)

Ghodrati Amiri, G., Jalalinia, M., Zare Hosseinzadeh, A. and Nasrollahi, A. (2015). "Multiple Crack Identification in Euler Beams by Means of B-spline Wavelet." *Archive of Applied Mechanics*, Vol. 85, Issue 4, 503-515, DOI 10.1007/s00419-014-0925-z.

Ghodrati Amiri, G. and Darvishan, E. (2015). "Damage Detection of Moment Frames Using Ensemble Empirical Mode Decomposition and Clustering Techniques." *KSCE Journal of Civil Engineering*, Vol. 19, Issue 5, 1302-1311, DOI 10.1007/s12205-015-0415-z.

Ghodrati Amiri, G., Shamekhi Amiri, M., Namiranian, P. and Emadzadeh, A. (2015). "Attenuation Relationship for Inelastic Spectra in Iran." *Structures & Buildings*, Vol. 168, Issue SB5, 313-325, DOI: 10.1680/stbu.13.00032.

Vahdat, K., Smith, N.J. and Ghodrati Amiri, G. (2015). "Seismic Risk Management: A System-Based Perspective." *Risk Management*, Vol. 16, No. 4, 294-318, ISSN 1460-3799, DOI:10.1057/rm.2015.3.

Eghbali, M., Ghodrati Amiri, G. and Raeissi Dehkordi, M. (2015). "Evaluation of Modified Nonlinear Dynamic and Static Analyses for Seismic Behavior of Steel Moment-Resisting Frames." *Journal of Vibroengineering*, Vol. 17, Issue 8, 4313-4324.

Naderpour, H., Ezzodin, A., Kheyroddin, A. and Ghodrati Amiri, G. (2015). "Signal Processing Based Damage Detection of Concrete Bridge Piers Subjected to Consequent Excitations." *Journal of Vibroengineering*. (accepted in Dec. 2015)

Yakhchalian, M., Nicknam, A. and Ghodrati Amiri, G. (2015). "Proposing an Optimal Vector Valued Intensity Measure for Seismic Collapse Assessment of Structures." *Earthquake Engineering and Engineering Vibration*, Vol. 14, No. 1, 37-54, DOI: 10.1007/s11803-015-0005-6.

Rasouli, A., Kourehli, S.S., Ghodrati Amiri, G., and Kheyroddin, A. (2015). "A Two-Stage Method for Structural Damage Prognosis in Shear Frames Based on Story Displacement Index and Modal Residual Force." *Advances in Civil Engineering*, Vol. 2015, Article ID 527537, 15 pages, DOI: 10.1155/2015/527537.

Pahlavan, H., Shaianfar, M., Ghodrati Amiri, G. and Pahlavan, M. (2015). "Probabilistic Seismic Vulnerability Assessment of the Structural Deficiencies in Iranian In-Filled RC Frame Structures." *Journal of Vibroengineering*, Vol. 17, Issue 5, 1392-8716.

Jafarzadeh, R., Ingham, J., Walsh, K., Hassani, N., and Ghodrati Amiri, G. (2015). "Using Statistical Regression Analysis to Establish Construction Cost Models for Seismic Retrofit of Confined Masonry Buildings." Vol. 141, Issue 5, *J. Constr. Eng. Manage.*, 10.1061/(ASCE)CO.1943-7862.0000968, 04014098.

Zakeri, B., Padgett, J., and Ghodrati Amiri, G. (2015). "Fragility Assessment for Seismically Retrofitted Skewed Reinforced Concrete Box Girder Bridges." Vol. 29, Issue 2, *J. Perform.*

Constr. Facil., 10.1061/(ASCE)CF.1943-5509.0000502, 04014043.

Ghodrati Amiri, G., Abdolahi Rad, A., and Khanmohamadi Hazaveh, N. (2014). "Wavelet based Method for Generating Non-Stationary Artificial Pulse-Like Near-Fault Ground Motions." *Computer-Aided Civil Infrastructure Engineering*, Vol. 29, Issue 10, 758-770, DOI: 10.1111/mice.12110.

Ghodrati Amiri, G., Shamekhi Amiri, M. and Tabrizian, Z. (2014). "Ground Motion Prediction Equations (GMPEs) for Elastic Response Using Gene Expression Programming." *Journal of Intelligent & Fuzzy Systems*, Vol. 26, No. 6, 2825-2839, DOI: 10.3233/IFS-130950.

Zakeri, B., Padgett, J., and Ghodrati Amiri, G. (2014). "Fragility Analysis of Skewed Single-Frame Concrete Box-Girder Bridges." Vol. 28, No. 3, *J. Perform. Constr. Facil.*, 10.1061/(ASCE)CF.1943-5509.0000435, 571-582.

Ghodrati Amiri, G., Khorasani, M., Aghajari, S. and Tabrizian, Z. (2014). "Assessment of ANFIS Networks on Wavelet Packet Levels in Generating Artificial Accelerograms." *Journal of Intelligent & Fuzzy Systems*, Vol. 26, No. 1, 379-391, DOI: 10.3233/IFS-120746.

Ghodrati Amiri, G. and Namiranian, P. (2014). "Evaluation of Capacity Spectrum Method in Estimating Seismic Demands of Triple Pendulum Bearings under Near-Field Ground Motions." *International Journal of Structural Stability and Dynamics*, Vol. 14, Issue 2, 1350062 (20 pages), DOI: 10.1142/S0219455413500624.

Ghodrati Amiri, G. and Arian Moghaddam, S. (2014). "Extraction of Forward-Directivity Velocity Pulses Using S-Transform-Based Signal Decomposition Technique." *Bulletin of Earthquake Engineering*, Vol. 12, Issue 4, 1583-1614, DOI: 10.1007/s10518-013-9581-x.

Darvishan, E., Ghodrati Amiri, G. and Ghaderi, P. (2014). "A Study on Instantaneous Time-Frequency Methods for Damage Detection of Nonlinear Moment-Resisting Frames." *Shock and Vibration*, Vol. 2014, Article ID 523675, 14 pages, DOI: 10.1155/2014/523675.

Zakeri, B. and Ghodrati Amiri, G. (2014). "Probabilistic Performance Assessment of Retrofitted Skewed Multi Span Continuous Concrete I-girder Bridges." *Journal of Earthquake Engineering*, Vol. 18, Issue 6, 945-963, DOI: 10.1080/13632469.2014.916241.

Zare Hosseinzadeh, A., Bagheri, A., Ghodrati Amiri, G. and Koo, K.Y. (2014). "A Flexibility-Based Method via the Iterated Improved Reduction System and the Cuckoo Optimization Algorithm for Damage Quantification with Limited Sensors." *Smart Materials and Structures*, Vol. 23, Issue 4, 045019, DOI:10.1088/0964-1726/23/4/045019.

Yakhchalian, M., Ghodrati Amiri, G. and Nicknam, A. (2014). "A New Proxy for Ground Motion Selection in Seismic Collapse Assessment of Tall Buildings." *The Structural Design of Tall and Special Buildings*, Vol. 23, Issue 17, 1275-1293, DOI: 10.1002/tal.1143.

Vahdat, K., Smith N.J. and Ghodrati Amiri, G. (2014). "Fuzzy Multicriteria for Developing a Risk Management System in Seismically Prone Areas." *Socio-Economic Planning Sciences*, Vol. 48, Issue 4, 235-248, DOI: 10.1016/j.seps.2014.05.002.

Homaei, F., Shojaee, S. and Ghodrati Amiri, G. (2014). "A Direct Damage Detection Method using Multiple Damage Localization Index Based on Mode Shapes Criterion." *Structural Engineering and Mechanics*, Vol. 49, No. 2, 183-202, DOI: 10.12989/sem.2014.49.2.183.

Rasouli, A., Ghodrati Amiri, G., Kheyroddin, A., Ghafory-Ashtiany, M. and Kourehli, S.S. (2014). "A New Method for Damage Prognosis Based on Incomplete Modal Data via an Evolutionary Algorithm." *European Journal of Environmental and Civil Engineering*, Vol. 18, Issue 3, 253-270, DOI: 10.1080/19648189.2014.881758.

Yakhchalian, M., Nicknam, A. and Ghodrati Amiri, G. (2014). "Proposing an Optimal Integral-Based Intensity Measure for Seismic Collapse Assessment of Structures under Pulse-Like Near-Fault Ground Motions." *Journal of Vibroengineering*, Vol. 16, Issue 3, 1360–1375.

Tabrizian, Z., Ghodrati Amiri, G. and Hossein Ali Beigy, M. (2014). "Charged System Search Algorithm Utilized for Structural Damage Detection." *Shock and Vibration*. Vol. 2014, Article ID 194753, 13 pages, DOI: 10.1155/2014/194753.

Bagheri, A., Fatemi, A. and Ghodrati Amiri, G. (2014). "Simulation of Earthquake Records by Means of Empirical Mode Decomposition and Hilbert Spectral Analysis." *Journal of Earthquake and Tsunami*, Vol. 8, Issue 1, 1450002 (21 pages), DOI: 10.1142/S179343111450002X.

Bagheri, A., Ghodrati Amiri, G. and Haghdoost, J. (2014). "New Method for the Estimation of Strong Ground Motions Based on the Colonial Competitive Algorithm." *KSCE Journal of Civil Engineering*, Vol. 18, Issue 5, 1403-1410, DOI: 10.1007/s12205-014-0034-0.

Ghodrati Amiri, G., Pakdel Lahiji, N. and Darvishan, E. (2014). "Effects of In-cycle Strength Degradation on Collapse Capacity of Steel Moment Frames." *The Structural Design of Tall and Special Buildings*, Vol.23, Issue 11, 801-813, DOI: 10.1002/tal.1072.

Hashemi, S.A.H., Ghodrati Amiri, G., Mohebi, B. and Hamedi, F. (2014). "Developing the Attenuation Relation for Damage Spectrum in X-braced Steel Structures with Neural Network." *Journal of Vibroengineering*, Vol. 16, Issue 8, 3879-3899.

Jafarzadeh, R., Wilkinson, S., González, V., Ingham, J., and Ghodrati Amiri, G. (2014). "Predicting Seismic Retrofit Construction Cost for Buildings with Framed Structures Using Multilinear Regression Analysis." Vol. 140, Issue 3, *J. Constr. Eng. Manage.*, 10.1061/(ASCE)CO.1943-7862.0000750, 04013062.

Ghodrati Amiri, G., Zare Hosseinzadeh, A., Bagheri, A., and Koo, K.Y. (2013). "Damage Prognosis by Means of Modal Residual Force and Static Deflections Obtained by Modal Flexibility Based on the Diagonalization Method." *Smart Materials and Structures*, Vol. 22, Issue 7, 075032, DOI: 10.1088/0964-1726/22/7/075032.

Tabrizian, Z., Afshari, E., Ghodrati Amiri, G., Hossein Ali Beigy, M. and Pourhoseini Nejad, S.M. (2013). "A New Damage Detection Method: Big Bang–Big Crunch (BB–BC) Algorithm." *Shock and Vibration*, Vol. 20, Issue 4, 633-648, DOI: 10.3233/SAV-130773.

Kourehli, S.S., Bagheri, A., Ghodrati Amiri, G., and Ghafory-Ashtiany, M. (2013). "Structural

Damage Identification Method Based on Incomplete Static Response Using an Optimization Problem.” *Scientia Iranica*, Vol. 21, No. 4, 1209-1216.

Soleimani Amiri, F., Ghodrati Amiri, G. and Razeghi, H. (2013). “Estimation of Seismic Demands of Steel Frames Subjected to Near-Fault Earthquakes Having Forward Directivity and Comparing with Pushover Analysis Results.” *The Structural Design of Tall and Special Buildings*, Vol. 22, No. 13, 975-988, DOI: 10.1002/tal.747.

Ghodrati Amiri, G., Azimi, M. and Darvishan, E. (2013). "Retrofitting I-Beam to Double-I Built-up Column Connections Using through Plates and T-Stiffeners." *Scientia Iranica: Transactions A: Civil Engineering*, Vol. 20, No. 6, 1695-1707.

Hoseini Vaez, S.R., Sharbatdar, M. K., Ghodrati Amiri, G., Naderpour, H. and Kheyroddin, A. (2013). “Dominant Pulse Simulation of Near Fault Ground Motions.” *Earthquake Engineering and Engineering Vibration*, Vol. 12, No. 2, 267-278, DOI: 10.1007/s11803-013-0170-4.

Kourehli, S.S., Bagheri, A., Ghodrati Amiri, G. and Ghafory-Ashtiany, M. (2013). “Structural Damage Detection Using Incomplete Modal Data and Incomplete Static Response.” *KSCE Journal of Civil Engineering*, Vol. 17, No. 1, 216-223, DOI: 10.1007/s12205-012-1864-2.

Bakhshi, H., Bagheri, A., Ghodrati Amiri, G. and Barkhordari, M.A. (2013). “Estimation of Spectral Acceleration Based on Neural Networks.” *Structures and Buildings*, Vol. 167, Issue SB8, 457-468, DOI: 10.1680/stbu.12.00059.

Ghodrati Amiri, G., Abdolahi Rad, A., Aghajari, S. and Kkanmohamadi Hazaveh, N. (2012). “Generation of Near-Field Artificial Ground Motions Compatible with Median Predicted Spectra Using PSO-based Neural Network and Wavelet Analysis.” *Computer Aided Civil Infrastructure Engineering*, Vol. 27, Issue 9, 711-730, DOI: 10.1111/j.1467-8667.2012.00783.x.

Kourehli, S.S., Ghodrati Amiri, G., Ghafory-Ashtiany, M. and Bagheri, A. (2012). “Structural Damage Detection Based on Incomplete Modal Data Using Pattern Search Algorithm.” *Journal of Vibration and Control*, Vol. 19, No. 6, 821-833, DOI: 10.1177/1077546312438428.

Ghodrati Amiri, G., Jaberi Jahromi, A. and Mohebi, B. (2012). “Determination of Plastic Hinge Properties for Static Nonlinear Analysis of FRP-Strengthened Circular Columns in Bridges.” *Computers and Concrete*, Vol. 10, No. 5, 437-457, DOI: 10.12989/cac.2012.10.5.435.

Bagheri, A., Razeghi, H.R. and Ghodrati Amiri, G. (2012). "Detection and Estimation of Damage in Structures using Imperialist Competitive Algorithm." *Shock and Vibration*, Vol. 19, No. 3, 405-419, DOI: 10.3233/SAV-2010-0639.

Fatemi, A.A., Bagheri, A., Ghodrati Amiri, G. and Ghafory-Ashtiany, M. (2012). “Generation of Uniform Hazard Earthquake Accelerograms and Near-Field Ground Motions.” *Journal of Earthquake and Tsunami*, Vol. 6, No. 2, 1250013 (17 pages), DOI: 10.1142/S1793431112500133.

Ghodrati Amiri, G., Shahjouei, A., Saadat, S. and Ajallooeian, M. (2011). “Hybrid Evolutionary-Neural Network Approach in Generation of Artificial Accelerograms Using

Principal Component Analysis and Wavelet-Packet Transform.” *Journal of Earthquake Engineering*, Vol. 15, No. 1, 50-76, DOI: 10.1080/13632469.2010.517281.

Ghodrati Amiri, G., Seyed Razzaghi, S.A. and Bagheri, A. (2011). “Damage Detection in Plates based on Pattern Search and Genetic Algorithms.” *Smart Structures and Systems*. Vol. 7, No. 2, 117-132, DOI: 10.12989/sss.2011.7.2.117.

Bagheri, A., Ghodrati Amiri, G., Khorasani, M. and Bakhshi, H. (2011), “Structural Damage Identification of Plates Based on Modal Data Using 2D Discrete Wavelet Transform.” *Structural Engineering and Mechanics*, Vol. 40, No. 1, 13-28, DOI: 10.12989/sem.2011.40.1.013.

Mortezaei, A., Ronagh, H.R., Kheyroddin, A. and Ghodrati Amiri, G. (2011). “Effectiveness of Modified Pushover Analysis Procedure for the Estimation of Seismic Demands of Buildings Subjected to Near-Fault Earthquakes Having Forward Directivity.” *The Structural Design of Tall and Special Buildings*, Vol. 20, Issue 6, 679–699, DOI: 10.1002/tal.553.

Asadi, A., Fadavi, M., Bagheri, A. and Ghodrati Amiri, G. (2011). “Application of Neural Networks and an Adapted Wavelet Packet for Generating Artificial Ground Motion.” *Structural Engineering and Mechanics*, Vol. 37, No. 6, 575-592, DOI : 10.12989/sem.2011.37.6.575.

Kheyroddin, A., Naderpour, H., Ghodrati Amiri, G. and Hoseini Vaez, S.R. (2011). "Influence of Carbon Fibre Reinforced Polymers on Upgrading Shear Behaviour of RC Coupling Beams", *Iranian Journal of Science & Technology; Transactions of Civil Engineering*, Vol. 35, No. C2, pp. 155-169.

Ghodrati Amiri, G., Khorasani, M., Mirza Hessabi, R. and Razavian Amrei, S.A. (2010). "Ground-Motion Prediction Equations of Spectral Ordinates and Arias Intensity for Iran." *Journal of Earthquake Engineering*, Vol. 14, Issue 1, 1-29, DOI: 10.1080/13632460902988984.

Gholizadeh, R., Ghodrati Amiri, G. and Mohebi, B. (2010). “An Alternative Approach to a Harmony Search Algorithm for a Construction Site Layout Problem.” *Canadian Journal of Civil Engineering*, Vol. 37, No. 12, 1560–1571, DOI: 10.1139/L10-084.

Naderpour, H., Kheyroddin, A. and Ghodrati Amiri, G. (2010), “Prediction of FRP-Confined Compressive Strength of Concrete using Artificial Neural Networks.” *Composite Structures*, Vol. 92, Issue 12, 2817–2829, DOI:10.1016/j.compstruct.2010.04.008.

Ghodrati Amiri, G., Bagheri, A. and Seyed Razaghi, S.A. (2009). "Generation of Multiple Earthquake Accelerograms Compatible with Spectrum via the Wavelet Packet Transform and Stochastic Neural Networks." *Journal of Earthquake Engineering*, Vol. 13, Issue 7, 899-915, DOI: 10.1080/13632460802687728.

Ghodrati Amiri, G., and Bagheri, A. (2009). "Simulation of Earthquake Records Using Combination of Wavelet Analysis and Non-Stationary Kanai-Tajimi Model." *Structural Engineering and Mechanics*, Vol. 33, No. 2, 179-191, DOI : 10.12989/sem.2009.33.2.179.

Bagheri, A., Ghodrati Amiri, G. and Seyed Razaghi, S.A. (2009). "Vibration-Based Damage Identification of Plate Structures via Curvelet Transform." *Journal of Sound and Vibration*, Vol.

327, Issues 3-5, 593-603, DOI:10.1016/j.jsv.2009.06.019.

Ghodrati Amiri, G., Andisheh, K. and Razavian Amrei, S.A. (2009). "Probabilistic Seismic Hazard Assessment of Sanandaj, Iran." *Structural Engineering and Mechanics*, Vol. 32, No. 4, 563-581, DOI: 10.12989/sem.2009.32.4.563.

Ghodrati Amiri, G. and Asadi, A. (2009). "Comparison of Different Methods of Wavelet and Wavelet Packet Transform in Processing Ground Motion Records." *International Journal of Civil Engineering*, Vol. 7, No. 4, 248-257.

Ghodrati Amiri, G., Abdollahzadeh Darzi, G. and Vaseghi Amiri, J. (2008). "Design Elastic Input Energy Spectra Based on Iranian Earthquakes." *Canadian Journal of Civil Engineering*, Vol. 35, No. 6, 635-646, DOI: 10.1139/L08-013.

Ghodrati Amiri, G. and Bagheri, A. (2008). "Application of Wavelet Multiresolution Analysis and Artificial Intelligence for Generation of Artificial Earthquake Accelerograms." *Structural Engineering and Mechanics*, Vol. 28, No. 2, 153-166, DOI : 10.12989/sem.2008.28.2.153.

Vaseghi Amiri, J., Ghodrati Amiri, G. and Ganjavi, B. (2008). "Seismic Vulnerability Assessment of MDOF Systems Based on Total Input Energy and Momentary Input Energy Responses." *Canadian Journal of Civil Engineering*, Vol. 35, No. 1, 41-56, DOI: 10.1139/L07-085.

Ashtari, P. and Ghodrati Amiri, G. (2008). "Modified Non-Stationary Critical Input Excitation by a Design Oriented Objective Function." *Iranian Journal of Science & Technology; Transaction B, Engineering*, Vol. 32, No. B5, 471-490.

Ghodrati Amiri, G., Manouchehri Dana, F. and Sedighi, S. (2008). "Determination of Design Acceleration Spectra for Different Site Conditions, Magnitudes, Safety Levels and Damping Ratios in Iran." *International Journal of Civil Engineering*, Vol. 6, No. 3, 184-197.

Ghodrati Amiri, G., Mahdavian, A. and Manouchehri Dana, F. (2007). "Attenuation Relationships for Iran." *Journal of Earthquake Engineering*, Vol. 11, Issue 4, 469-492, DOI: 10.1080/13632460601034049.

Jalali, R.S., Trifunac, M.D., Ghodrati Amiri, G., and Zahedi, M. (2007). "Wave-Passage Effects on Strength-Reduction Factors for Design of Structures Near Earthquake Faults." *Soil Dynamics and Earthquake Engineering*, Vol. 27, Issue 8, 703-711, DOI:10.1016/j.soildyn.2007.01.006.

Ghodrati Amiri, G., Bagheri, A. and Fadavi Amiri, M. (2007). "New Method for Generation of Artificial Ground Motion by a Nonstationary Kanai-Tajimi Model and Wavelet Transform." *Structural Engineering and Mechanics*, Vol. 26, No. 6, 709-723, DOI: 10.12989/sem.2007.26.6.709.

Ghodrati Amiri, G., Motamed, R., Hashemi, R. and Nouri, H.R. (2006). "Evaluating the Seismicity Parameters of Tehran, Iran." *Geotechnical Engineering*, Vol. 159, No. GE4, 275-283, DOI: 10.1680/geng.2006.159.4.275.

Ghodrati Amiri, G., Ashtari, P. and Rahami, H. (2006). "New Development of Artificial Record Generation by Wavelet Theory." *Structural Engineering and Mechanics*, Vol. 22, No.

2, 185-195, DOI : 10.12989/sem.2006.22.2.185.

Ghodrati Amiri, G. and Manouchehri Dana, F. (2005). "Introduction of the Most Suitable Parameter for Selection of Critical Earthquake." *Computers & Structures*, Vol. 83, Issues 8-9, 613-626, DOI:10.1016/j.compstruc.2004.10.010.

Ghodrati Amiri, G., Motamed, R. and Rabet Es-haghi, H. (2003). "Seismic Hazard Assessment of Metropolitan Tehran, Iran." *Journal of Earthquake Engineering*, Vol. 7, Issue 3, 347-372, DOI: 10.1142/S136324690300119X.

Ghodrati Amiri, G. (2002). "Seismic Sensitivity Indicators for Tall Guyed Telecommunication Towers." *Computers & Structures*, Vol. 80, Issues 3-4, 349-364, DOI:10.1016/S0045-7949(01)00175-4.

JOURNAL (in English)

Memarpour, M.M., Ghodrati Amiri, G., Razeghi, H., Akbarzadeh, M. and Tajik, D. (2016), "Characteristics of Horizontal and Vertical Near-Field Ground Motions and Investigation of Their Effects on the Dynamic Response of Bridges", *Journal of Rehabilitation in Civil Engineering*, Vol. 4, Issue 2, pp. 1-24, DOI: 10.22075/jrce.2016.498.

Ghadimi Hamzehkolaei, A., Zare Hosseinzadeh, A. and Ghodrati Amiri, G. (2016), "Structural Damage Prognosis by Evaluating Modal Data Orthogonality Using Chaotic Imperialist Competitive Algorithm", *International Journal of Optimization in Civil Engineering*, Vol. 6, No. 4, pp. 505–522.

Rahami, H., Amini Tehrani, H., Akhavat, M. and Ghodrati Amiri, G. (2016), "Damage Detection in Offshore Fixed Platforms Using Concepts of Energy Entropy in Wavelet Packet Transform", *Amirkabir Journal of Civil and Environmental Engineering*, Vol. 48, No. 3, pp. 241-248, DOI: 10.22060/ceej.2016.597.

Zare Hosseinzadeh, A., Ghodrati Amiri, G. and Seyed Razzaghi, S.A. (2016), "A New Damage Index for Structural Damage Identification by Means of Wavelet Residual Force", *International Journal of Optimization in Civil Engineering*, Vol. 6, No. 2, pp. 269–286.

Farokhzad, R., Ghodrati Amiri, G., Mohebi, B. and Ghafory Ashtiany, M. (2016). "Multi-Damage Detection for Steel Beam Structure" *Journal of Rehabilitation in Civil Engineering*, Vol. 4, Issue 2, pp. 25-44, DOI: 10.22075/jrce.2017.1806.1157.

Homaei, F., Shojaee, S. and Ghodrati Amiri, G. (2015), "Multiple-Structural Damage Detection using Measured Frequency Response Function", *Iranian Journal of Structural Engineering*, Vol. 2, No. 1, pp. 13–18.

Ghodrati Amiri, G., Zare Hosseinzadeh, A., and Jafarian Abyaneh, M. (2015), "A New Two-Stage Method for Damage Identification in Linear-Shaped Structures via Grey System Theory and Optimization Algorithm", *Journal of Rehabilitation in Civil Engineering*, Vol. 3, Issue 2, pp. 45-58.

Ghodrati Amiri, G., Zare Hosseinzadeh, A. and Seyed Razzaghi, S.A. (2015). "Generalized Flexibility-Based Model Updating Approach via Democratic Particle Swarm Optimization

Algorithm for Structural Damage Prognosis”, *International Journal of Optimization in Civil Engineering*, Vol. 5, No. 4, pp. 445–464.

Hashemi, S.A., Ghodrati Amiri, G. and Hamed, F. (2015), “Steel Buildings Damage Classification By Damage Spectrum and Decision Tree Algorithm”, *Journal of Rehabilitation in Civil Engineering*, Vol. 3, Issue 1, pp. 24-42.

Mohebi, B., Ghodrati Amiri, G., and Taheri, M. (2014). “Selection of Suitable Records for Nonlinear Analysis Using Genetic Algorithm (GA) and Particle Swarm Optimization (PSO)”, *International Journal of Optimization in Civil Engineering*, Vol. 4, No. 4, pp. 509-524.

Asghari, A., Tabrizian, Z., Ali Beigy, M., Ghodrati Amiri, G. and Navayineya, B. (2014), “An Experimental Study on Shear Strengthening of RC Lightweight Deep Beams using CFRP”, *Journal of Rehabilitation in Civil Engineering*, Vol. 2, Issue 2, pp. 9-19.

Ghodrati Amiri, G., and Talebi, M. (2014). “A Novel Methodology for Structural Matrix Identification using Wavelet Transform Optimized by Genetic Algorithm”, *International Journal of Optimization in Civil Engineering*, Vol. 4, No. 3, pp. 399-413.

Razavian Amrei, S.A., Ghodrati Amiri, G. and Khodadadi, E. (2014), “Seismic Hazard Analysis and Obtaining Uniform Hazard Spectra for Esfahan Region, Iran”, *Journal of Rehabilitation in Civil Engineering*, Vol. 2, Issue 1, pp. 1-18.

Ghodrati Amiri, G., Razavian Amrei, S.A. and Alaei, H. (2014), "Uniform Hazard Spectra for the City of Shiraz, Iran", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 15, No. 6, pp. 817-829.

Ghodrati Amiri, G., Iraj, K. and Namiranian, P. (2014). “Generation of Multiple Spectrum-Compatible Artificial Earthquake Accelerograms with Hartley Transform and RBF Neural Network”, *International Journal of Optimization in Civil Engineering*, Vol. 4, No. 1, pp. 59-75.

Ghodrati Amiri, G., Khoshnevis, N. and Razavian Amrei, S.A. (2013), “Probabilistic Assessment of Earthquake Damage and Loss for the City of Tehran, Iran”, *Journal of Rehabilitation in Civil Engineering*, Vol. 1, Issue 2, pp. 10-23.

Zare Hosseinzadeh, A., Bagheri, A. and Ghodrati Amiri, G. (2013), “Two-Stage Method for Damage Localization and Quantification in High-Rise Shear Frames Based on the First Mode Shape Slope”, *International Journal of Optimization in Civil Engineering*, Vol. 3, No. 4, pp. 653-672.

Ghodrati Amiri, G., Darvishan, E. and Rokni, H.R. (2013), "Effect of Connection Fracture Dispersion on Seismic Demands of Welded Steel Moment Frames", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 14, No. 2, pp. 253-268.

Ghodrati Amiri, G., Razavian Amrei, S.A. and Ghasemi Jouneghani, H. (2013), "Probabilistic Assessment of PGA and UHS for the Ancient City of Hamadan, Iran", *International Journal of Earth Sciences and Engineering*, Vol. 6, No. 2, pp. 232-243.

Ghodrati Amiri, G. and Namiranian, P. (2013), "Hybrid Artificial Neural Networks based on ACO-Rprop for Generating Multiple Spectrum-Compatible Artificial Earthquake Records for

Specified Site Geology", *International Journal of Optimization in Civil Engineering*, Vol. 3, No. 1, pp. 179-207.

Ghodrati Amiri, G., Aghajari, S., Khorasani, M. and Kazemi, A. (2013). "Modeling Strong Ground Motion Attenuation via Adaptive Neuro-Fuzzy Inference System (ANFIS)." *International Journal of Earth Sciences and Engineering*, Vol. 6, No. 1, 28-38.

Fatemi, A.A., Tabrizian, Z., Ghodrati Amiri, G. and Razavian Amrei, S.A. (2013), "Earthquake Vulnerability and Seismic Risk Assessment of Bandar Abbas in South of Iran", *Journal of Rehabilitation in Civil Engineering*, Vol. 1, Issue 1, pp. 1-14.

Rahgozar. M.A., Ghodrati Amiri, G. and Saleh, M. (2012), "Probabilistic Assessment of PGA and UHS for Bojnurd City, the Capital of North Khorasan Province, Iran", *Journal of Seismology and Earthquake Engineering*, Vol. 14, No.1, pp. 13-28.

Mohamadpour Lima, M., Ghodrati Amiri, G. and Bagheri, A. (2012), "Wavelet-Based Method for Damage Detection of Nonlinear Structures", *Journal of Civil Engineering and Urbanism*, Vol. 2, Issue 4, pp. 149-153.

Ghodrati Amiri, G., Darvishan, E. and Rokni, H.R. (2012), "Deterioration Effect of Hysteresis Loops in Nonlinear Static Analysis of Intermediate and Special Steel Moment Frames", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 13, No. 4, pp. 499-510.

Razavian Amrei, S.A., Ghodrati Amiri, G., Saed, A. and Sabzevari, A. (2012), "Peak Ground Acceleration on Bedrock and Uniform Seismic Hazard Spectra for Different Regions of Behbahan, Iran", *International Journal of Earth Sciences and Engineering*, Vol. 5, No. 06, pp. 1492-1499.

Ghodrati Amiri, G., Mahtabi, M.J. and Razavian Amrei, S.A. (2012), "Seismic Velocity and Displacement Hazard Assessment for Tehran, Including Site Effects", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 13, No. 3, pp. 331-351.

Ghodrati Amiri, G., Razavian Amrei, S.A., Sabzevari, A., Saed, A. and Shokrani, Y. (2012), "Peak Ground Acceleration on Bedrock and Uniform Seismic Hazard Spectra for Different Regions of Zanjan, Iran", *International Journal of Earth Sciences and Engineering*, Vol. 5, No. 06, pp. 1515-1521.

Pourhoseini Nejad, S.M., Ghodrati Amiri, G., Asadi, A., Afshari, E. and Tabrizian, Z. (2012), "Damage Detection of Skeletal Structures Using Particle Swarm Optimizer with Passive Congregation (PSOPC) Algorithm via Incomplete Modal Data", *Computational Methods in Civil Engineering*, Vol. 3, No. 1, pp. 1-13.

Ghodrati Amiri, G., Yaghmaei-Sabegh, S. and Eghbali, M. (2011), "Effect of the Higher Modes in Seismic Evaluation of the Steel Moment-Resisting Frame Buildings, Based on Incremental Dynamic and Static Analysis", *International Journal of Earth Sciences and Engineering*, Vol. 4, No. 06 SPL, pp. 1072-1077.

Bagheri, A., Ghodrati Amiri, G., Khorasani, M. and Haghdoost, J. (2011), "Determination of Attenuation Relationships Using an Optimization Problem", *International Journal of Optimization in Civil Engineering*, Vol. 1, No. 4, pp. 597-607.

Ghodrati Amiri, G., Rahimi, M.A., Razeghi, H. and Razavian Amrei, S.A. (2011), "Evaluation of Horizontal Seismic Hazard of Tabriz, Iran", *International Journal of Earth Sciences and Engineering*, Vol. 4, No. 06 SPL, pp. 196-199.

Shahjouei, A. and Ghodrati Amiri, G. (2011), "Appraisal of the Evolutionary-Based Methodologies in Generation of Artificial Earthquake Time Histories", *Computational Methods in Civil Engineering*, Vol. 2, No. 2, pp. 145-152.

Ghodrati Amiri, G., Razeghi, H. and Kazemi, A. (2011), "Seismic Hazard Assessment of Metropolitan Tehran by Using Deterministic Attenuation and Epicentral Distribution", *International Journal of Earth Sciences and Engineering*, Vol. 4, No. 06 SPL, pp. 200-203.

Ghodrati Amiri, G., Razeghi, H. and Tajik Davoudi, A. (2011), "Effect of Fling Step and Forward Directivity on Seismic Response of MSSS Bridges", *Transportation Research Journal*, Vol. 1, No. 1, pp. 9-21.

Ghodrati Amiri, G., Razavian Amrei, S.A. and Jamshidnejad, G. (2011), "Probabilistic Horizontal Seismic Hazard Assessment of Khoram- Abbad, Iran", *International Journal of Earth Sciences and Engineering*, Vol. 4, No. 06 SPL, pp. 204-207.

Luan, N.K., Bakhshi, H., Ronagh, H.R., Barkhordari, M.A. and Ghodrati Amiri, G. (2011), "Analytical Solutions for the In-Plane Behavior of Composite Steel/Concrete Beams with Partial Shear Interaction", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 12, No. 6, pp. 751-771.

Fatemi, A., Tabrizian, Z., Ghodrati Amiri, G. and Hossein Ali Beigi, M. (2011), "Steel Bridges Retrofitting Techniques", *International Journal of Earth Sciences and Engineering*, Vol. 4, No. 06 SPL, pp. 695-698.

Kazemi, A., Razeghi, H. and Ghodrati Amiri, G. (2011), "A New Method for Employment of Deterministic Attenuation Relationship in Probabilistic Seismic Hazard Analysis", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 11, No. 1, pp. 61-73.

Ghodrati Amiri, G., Mahmoodi, H. and Razavian Amrei, S.A. (2010), "Probabilistic Seismic Hazard Assessment of Tehran Based on Arias Intensity", *International Journal of Engineering: Transactions B*, Vol. 23, No. 1, pp. 1-20.

Ghodrati Amiri, G., Kazemiashtiani, V. and Razavian Amrei, S.A. (2010), "Seismic Hazard Analysis and Obtaining Peak Ground Acceleration (PGA) for Arak Region, Iran", *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 11, No. 2, pp. 183-206.

Ghodrati Amiri, G., Hamidi Jamnani, H. and Ahmadi, H.R. (2009), "The Effect of Analysis Methods on the Response of Steel Dual-System Frame Buildings for Seismic Retrofitting", *International Journal of Engineering: Transactions B*, Vol. 22, No. 4, pp. 317-331.

Ghodrati Amiri, G., Razeghi, H.R., Razavian Amrei, S.A., Alaei H. and Rasouli, S.M. (2008), "Seismic Hazard Assessment of Shiraz, Iran", *Journal of Applied Sciences*, Vol. 8, No. 1, pp. 38-48.

Ghodrati Amiri, G., Hamidi Jamnani, H. and Mohebi, B. (2008), "The Effect of Analysis Methods on the Response of Steel-Braced Frame Buildings for Seismic Retrofitting", *Journal of Applied Sciences*, Vol. 8, No. 3, pp. 432-442.

Ghodrati Amiri, G., Abdollahzadeh Darzi, G. and Khanzadi, M. (2007), "Earthquake Duration and Damping Effects on Input Energy", *International Journal of Civil Engineering*, Vol. 5, No. 1, pp. 14-29.

Ghodrati Amiri, G., Razavian Amrei, S.A., Motamed, R. and Ganjavi, B. (2007), "Uniform Hazard Spectra for Different Northern Part of Tehran, IRAN", *Journal of Applied Sciences*, Vol. 7, No. 22, pp. 3368-3380.

Ganjavi, B., Vaseghi Amiri, J., Ghodrati Amiri, G. and Razavian Amrei, S.A. (2007), "Effect of Seismic Loading Patterns on Height-Wise Distribution of Drift, Hysteretic Energy and Damage in Reinforced Concrete Buildings", *Journal of Applied Sciences*, Vol. 7, No. 22, pp. 3431-3444.

Ghodrati Amiri, G., Massah, S.R. and Boostan, A. (2007), "Seismic Response of 4-Legged Self-Supporting Telecommunication Towers", *International Journal of Engineering: Transactions B*, Vol. 20, No. 2, pp. 107-125.

Ghodrati Amiri, G., Barkhordari, M.A., Massah, S.R. and Vafaei, M.R. (2007), "Earthquake Amplification Factors for Self-Supporting 4-Legged Telecommunication Towers", *World Applied Sciences Journal*, Vol. 2, No. 6, pp. 635-643.

Ghodrati Amiri, G. and Sedighi, S. (2004), "Reliability of Nonlinear Static Method in Seismic Performance Prediction of Reinforced Concrete Frames with Medium Ductility", *International Journal of Civil Engineering*, Vol. 2, No. 4, pp. 257-267.

Ghodrati Amiri, G. and Yaghmaei, S. (2002), "Probabilistic Seismic Hazard Assessment of Tabriz Airport Region", *International Journal of Engineering Science*, Vol. 13, No. 4, pp.149-160.

Khaloo, A.R. and Ghodrati Amiri, G. (1995), "Moment Curvature Analysis of Confined Concrete Flexural Members", *Asian Journal of Structural Engineering*, Vol. 1, No. 2, pp. 103-127.

JOURNAL (in Persian)

Ghodrati Amiri, G. and Rajabi, E. (2017), "Sensitive Index of Damage in Reinforcement Concrete Frames Under Seismic Sequence Using Artificial Neural Networks", *Modares Civil Engineering Journal*. (accepted in March 2017)-(in Persian)

Abbasi, A., Hoseini Vaez, S.R. and Ghodrati Amiri, G. (2016), "Damage Detection Of Steel Shear Wall Using Wavelet Algorithm", *Journal of Civil Engineering, Ferdowsi University of Mashhad*. (accepted in Dec. 2016)-(in Persian)

Amoozadeh, A., Fadavi Amiri, M., Zare Hosseinzadeh, A. and Ghodrati Amiri, G. (2016), "Processing of Structural Responses via Wavelet Transform for Detecting Damage under Earthquake Excitation", *Modares Civil Engineering Journal*, Vol. 16, No. 5, pp. 103-117. (in Persian)

Ghodrati Amiri, G., Talebzadeh, M., Talebi, M. and Tabrizian, Z. (2016), "Damage Assessment in Connections of Moment Resistant Frames Using Hilbert-Huang Transform", *Sharif Civil Engineering Journal*, Vol. 32-2, No. 1/1, pp. 3-11. (in Persian)

Rashidnia, V., Razavian Amrei, S.A. and Ghodrati Amiri, G. (2016) "Seismic Vulnerability of Yazd", *Journal of Structural and Construction Engineering*, Vol. 3, No. 1, pp. 5-13. (in Persian)

Hosseini, S.M. and Ghodrati Amiri, G. (2016). "Stability Study of Successive Collapse in Eccentric Braced Frames", *Journal of Construction Engineering and Housing*. (accepted in June 2016)-(in Persian)

Ghodrati Amiri, G., Akhavat, M. and Amini Tehrani, H. (2016), "Structural Damage Detection in Shear Frames Based on Signal Processing and Generalized S-Transform with Complex Window", *Sharif Civil Engineering Journal*, Vol. 32, Issue 2.1, pp. 19-28. (in Persian)

Farokhzad, R., Ghodrati Amiri, G., Mohebi, B. and Ghafory Ashtiany, M. (2016). "Damage Detection in Cantilever Steel Beam Based on Combination of Finite Elements Method and Genetic Alorithem" *Journal of Asas*, Vol. 18, No. 44, pp. 5-18. (in Persian)

Ghodrati Amiri, G., Razeghi, H. and Doosti, L. (2016), "Development of Analytical Fragility Curves for Iran's Masonry School Buildings", *Sharif Civil Engineering Journal*, Vol. 31-2, Issue 4/2, pp. 145-156. (in Persian)

Veismoradi, S., Ghodrati Amiri, G. and Darvishan, E. (2016), "Comparison of Seismic Performance of BRB Frames and Yielding Brace Systems", *Journal of Structure & Steel*. (accepted in Nov. 2016)-(in Persian)

Ghodrati Amiri, G. and Kaafi, P. (2016), "Investigation into the Potential of Progressive Collapse in Steel Buildings with A Composite Roof", *Sharif Civil Engineering Journal*, Vol. 32-2, Issue 3/1, pp. 87-96. (in Persian)

Ghodrati Amiri, G. and Arian Moghaddam, S. (2015), "Evaluation of the Pulse-Like Nature of Near-Fault Ground Motions Using S-Transform", *Bulletin of Earthquake Science and Engineering*, Vol. 1, No. 1, pp. 13-31. (in Persian)

Ghodrati Amiri, G., Mohamadi Dehcheshmeh, M. and Darvishan, E. (2015), "An Artificial Neural Network Based Method for Estimation of the Inelastic Response of Single-Degree of Freedom (SDOF) Systems under Records of Rock", *Sharif Civil Engineering Journal*, Vol. 31-2, Issue 1/1, pp. 93-103. (in Persian)

Ghodrati Amiri, G. and Zare Hosseinzadeh, A. (2015), "Damage Identification in Shear Frames via Grey Relation Theory and Static Displacement Estimated by Limited Modal Data", *Journal of Computational Methods in Engineering*, Vol. 34, No. 1, pp. 139-154. (in Persian)

Hassani, N., Ghodrati Amiri, G., Bararnia, M., Sinaeian, F. and Jahanian, H. (2015), "Ground Motion Prediction (Attenuation) Relations for Spectral Acceleration in Iran", *Sharif Civil*

Engineering Journal, Vol. 31-2, Issue 2/1, pp. 11-21. (in Persian)

Ghodrati Amiri, G., Zare Hosseinzadeh, A. and Seyed Razaghi, S.A. (2015), "Damage Detection in Beams Using Static Deflection Measurements and Statistical Hypothesis Testing", *Modares Civil Engineering Journal*, Vol. 14, No. 4, pp. 103-113. (in Persian)

Ghodrati Amiri, G. and Shamekhi Amiri, M. (2015), "Attenuation Relationships for Peak Ground Acceleration in the Iranian Plateau Using Gene Expression Programming (GEP)", *Sharif Civil Engineering Journal*, Vol. 30-2, Issue 4/1, pp. 85-95. (in Persian)

Tabrizian, Z., Hossein Ali Beigi, M. and Ghodrati Amiri, G. (2015), "Damage Detection in Steel Structures Using Static Deflection Data and Genetic Algorithm", *Journal of Modeling in Engineering*, Vol. 13, No. 41, pp. 147-158. (in Persian)

Razavian Amrei, S.A., Ghodrati Amiri, G. and Zeinali Rastabi, S. (2015) "Seismic Risk Assessment of Shahrekord", *Journal of Structural and Construction Engineering*, Vol. 1, No. 1, pp. 19-26. (in Persian)

Zare Hosseinzadeh, A., Ghodrati Amiri, G., Shakeri, K. and Golar, S. (2015), "Direct and Geometrical Tracing of the Diagonal Members of the Generalized Flexibility Matrix via Optimization-Based Approach for Structural Damage Identification", *Sharif Civil Engineering Journal*. (accepted in June 2015)-(in Persian)

Ghodrati Amiri G., Razavian Amrei, S.A. and Tahmasbi Broujeni, M. (2015) "Seismic Hazard Analysis and Uniform Hazard Spectra for Different Regions of Kerman", *Journal of Structural and Construction Engineering*, Vol. 2, No. 2, pp. 43-51. (in Persian)

Ezodin, A., Naderpour, H., Kheyroddin, A. and Ghodrati Amiri, G. (2015), "Damage Localization and Quantification of Beams Using Wavelet Transform", *Journal of Modeling in Engineering*, Vol. 12, No. 39, pp. 1-11. (in Persian)

Ghodrati Amiri, G., Darvishan, E. and Rahgozar, F. (2014), "Seismic Evaluation of Buckling Restrained Braced Frames by Utilization of Scaled Nonlinear Dynamic Procedure", *Sharif Civil Engineering Journal*, Vol. 30-2, Issue 1/2, pp. 13-20. (in Persian)

Razavian Amrei, S.A., Ghodrati Amiri, G. and Mavaei, M. (2014), "Providing Peak Ground Acceleration (PGA) on Bedrock and Uniform Seismic Hazard Spectra for Different Regions of Kermanshah City", *Geodynamics Research International Bulletin*, Vol. 1, No. 02, pp. 1-9. (in Persian)

Hoseini Vaez, S.R., Ghodrati Amiri, G., Sharbatdar, M.K., Naderpour, H. and Kheyroddin, A. (2014), "Prevalent Pulse Modelling for Near-Fault Records during 1978 Tabas and 2003 Bam Earthquakes", *Sharif Civil Engineering Journal*, Vol. 30-2, Issue 1/2, pp. 107-116. (in Persian)

Babagoli, R., Vahdani, R. and Ghodrati Amiri, G. (2013), "Analytical Evaluation of the Impact of Various Parameters on the Forces Acting on a Circular Tunnel Lining under Seismic Loads", *Tunneling & Underground Space Engineering (TUSE)*, Vol. 2, Issue 1, pp. 27-35. (in Persian)

Ghodrati Amiri, G., Razeghi, H.R., Khodabakhshi, M. and Eghbali, M. (2013) "Effects of Abutment's Modelling and Assignment of Plastic Hinges' Types on Seismic Response of Reinforced Concrete Highway Bridges", *International Journal of Transportation Engineering*, Vol. 4, No. 4, pp. 365-387. (in Persian)

Hassani, N., Ghodrati Amiri, G., Baramnia, M. and Sinaiean, F. (2013), "Inelastic Displacement Ratio for Structures Subjected to Pulse Like Near Fault Ground Motions", *Modares Civil Engineering Journal*, Vol. 13, No. 1, pp. 15-28. (in Persian)

Ghodrati Amiri, G., Pakdel Lahiji, N. and Darvishan, E. (2013), "Probabilistic Assessment of the Effect of In-cycle Degradation on Seismic Behaviour on Mid-rise Steel Moment Frames", *Sharif Civil Engineering Journal*, Vol. 29-2, Issue 3, pp. 39-48. (in Persian)

Ghodrati Amiri, G., Asmari Saad Abad, S. and Zare Hossein Zadeh, A. (2013), "Earthquake Risk Assessment using Fuzzy Inference Systems and its Application in Seismic Rehabilitation Studies", *Modares Civil Engineering Journal*. Vol. 13, No. 3, pp. 71-84. (in Persian)

Mortezaei, A. and Ghodrati Amiri, G. (2013), "A Proposed Equation for Estimation of the Plastic Hinge Length of RC Columns subjected to Near-Fault Ground Motions, having Fling Step", *Sharif Civil Engineering Journal*, Vol. 29-2, Issue 3, pp. 19-30. (in Persian)

Ghodrati Amiri G., Razavian Amrei, S.A. and Sheikhi, V. (2012) "Investigation of Deterioration of Hysteretic Loops in Nonlinear Static Analysis (Pushover) for Special Moment Resisting Frame With Shear Walls", *Journal of Modeling in Engineering*, Vol. 10, No. 30, pp. 33-41. (in Persian)

Eghbali, M., Ghodrati Amiri, G. and Yaghmaei-Sabegh, S. (2012), "Comparison of Approximate and Exact Methods of Incremental Dynamic Analysis in Seismic Evaluation of Steel Moment Resisting Frames", *Journal of Structure & Steel*, Vol. 8, No. 11, pp. 63-82. (in Persian)

Ghodrati Amiri, G., Asadi, A. and Bagheri, A. (2012), "New Method for Generation of Artificial Earthquake Accelerograms Using Wavelet Packet Transform and Generalized Regression Neural Networks", *Sharif Civil Engineering Journal*, Vol. 27-2, Issue 4, pp. 65-74. (in Persian)

Azarhoosh, Z., Ghodrati Amiri, G. and Razeghi, H. (2012), "Response of Soil-Structure Systems Subjected to Forward Rupture Directivity Pulses", *Modares Civil Engineering Journal*, Vol. 12, No. 1, pp. 97-105. (in Persian)

Ghodrati Amiri, G. and Mirmiran, B. (2011), "The Best Methods of Steel Plate Shear Wall Modeling", *Sharif Civil Engineering Journal*, Vol. 27-2, Issue 1, pp. 133-138. (in Persian)

Ghodrati Amiri, G., Baramnia, M., Abedpour, M. and Namiranian, P. (2011), "Effect of Pounding in Seismic Demand of Seismic Isolated Structures", *Journal of Modelling in Engineering*. Vol. 9, No. 24, pp. 53-64. (in Persian)

Ghodrati Amiri, G., Razavian Amrei, S.A. and Mirhashemi, S.M. (2011), "Horizontal Uniform Hazard Spectra for Different Southern Part of Tehran", *Sharif Civil Engineering Journal*, Vol.

26-2, Issue 3, pp. 51-60. (in Persian)

Ghodrati Amiri, G., Zomorodian, S.M. and Tajik Davoudi, A. (2011), "Assessment of Near-Field Ground Motions on Vulnerability of Highway Bridges", *Journal of Transportation Research*, Vol. 8, No. 3, pp. 241-257. (in Persian)

Ghodrati Amiri, G. and Kalbodi, S.N. (2011), "Comparison of Ductility Ratios in Concrete Structures with Intermediate Moment Resisting Frame System", *Research Bulletin of Seismology and Earthquake Engineering*, Vol. 14, No. 1-2, pp. 37-48. (in Persian)

Ghodrati Amiri, G., Kheyroddin, A. and Karegarian, A. (2011), "Evaluation of Seismic Vulnerability of RC Maisonette Buildings", *Journal of Civil and Surveying Engineering*, Vol. 45, No. 4, pp. 495-503. (in Persian)

Bakhshi, H., Khorasani, M., Fadavi, M., Ghodrati Amiri, G. and Barkhordari, M.A. (2010), "Estimation of Maximum Ground Acceleration, Velocity and Displacement Parameters using Artificial Neural Networks", *Journal of Modelling in Engineering*, Vol. 7, No. 19, pp. 11-21. (in Persian)

Ghodrati Amiri, G. and Amidi, S. (2010), "Evaluation of Stiffness & Strength Degradations Coefficient (C2) for RC Building with Shear Walls ", *Journal of Civil and Surveying Engineering*, Vol. 44, No. 3, pp. 425-436. (in Persian)

Ghodrati Amiri, G., Razavian Amrei, S.A. and Pashanejati, S.R. (2010), "Seismic Hazard Assessment of Imam Reza (Peace Be upon Him)'s Holy Shrine Region", *Sharif Civil Engineering Journal*, Vol. 51, Issue 1, pp. 33-39. (in Persian)

Ghodrati Amiri, G., Mohebi, B. and Hamidi Jamnani, H. (2009), "Investigating Deterioration Effect of Hysteresis Loops in Nonlinear Static Analysis of Intermediate RC Moment Frame", *Amirkabir Journal of Civil Engineering*, Vol. 41, No. 1, pp. 45-52. (in Persian)

Ghodrati Amiri, G., Razavian Amrei, S.A. and Seyed Kazemi, A. (2009), "Seismic Evaluation of Steel Ordinary Moment Frame Buildings", *Journal of Structure & Steel*, Vol. 5, No. 5, pp. 5-17. (in Persian)

Ghodrati Amiri, G. and Kourehli, S.S. (2009), "Investigation of Deterioration Behavior of Hysteretic Loops in Nonlinear Static Analysis (Pushover) for Special Moment Resisting Frame Buildings", *Sharif Civil Engineering Journal*, Vol. 46, Issue 1, pp. 33-44. (in Persian)

Ghodrati Amiri, G., Gholamrezatabar, A. and Razavian Amrei, S.A. (2008), "Evaluation of Performance of Reinforced Concrete Frame Retrofitted Using Concentric Steel Bracing", *Journal of Structure & Steel*, Vol. 4, No. 4, pp. 17-25. (in Persian)

Behzad Afshar, K., Mirzaei, N., Eskandari Ghadi, M., Sinaeian, F. and Ghodrati Amiri, G., (2008), "Study of Directivity Effect on Strong Ground Motion in Darb Astaneh-Silakhor Earthquake of March 30, 2006", *Iranian Journal of GeoPhysics*, Vol. 2, No. 1, pp. 63-78. (in Persian)

Ghodrati Amiri, G., Behnamfar, F. and Azad, H. (2008), "Quantities Derivation of Thresholds Of Different Seismic Performance Levels for Satchel Frames Using Pushover Analysis",

Journal of Structure & Steel, Vol. 4, No. 2, pp. 71-86. (in Persian)

Ghodrati Amiri, G., Sanaei, E. and Jamalzadeh, M. (2005), "Investigation of Nonlinear Behavior of Bolted End-Plate Steel Connections", *International Journal of Engineering Science*, Vol. 16, No. 3, pp. 73-81. (in Persian)

Ghodrati Amiri, G. and Fereidooni, O. (2005), "Investigation of Nonlinear Internal Seismic Energy in RC Structure", *Amirkabir Journal of Civil Engineering*, Vol. 16, No. J-61, pp. 57-68. (in Persian)

Ghodrati Amiri, G., Ghalandarzadeh, A. and Motamed. R. (2004), "Site Response Evaluation using Microtremor Measurements", *International Journal of Engineering Science*, Vol. 15, No. 4, pp. 183-201. (in Persian)

Ghodrati Amiri, G. and Amirabadi, M. (2004), "Height Effect on Behavior Factor of Knee Braced Frame", *International Journal of Engineering Science*, Vol.15, No. 2, pp. 63-78. (in Persian)

Ghodrati Amiri, G., Zahedi, M., Mahdavian, A. and Gholami, S. (2004), "Appropriate Frequency Band for Correcting Iranian Accelerograms in Different Site Conditions", *Journal of Civil and Surveying Engineering*, Vol. 38, No. 2, pp. 231-249. (in Persian)

Ghodrati Amiri, G. and Rouhi, M. (2003), "Investigation of Optimum Point of Shear Wall Curtailment Considering Seismic Interaction of Wall and Frame in Tall Buildings", *International Journal of Engineering Science*, Vol.14, No. 2, pp. 61-76. (in Persian)

Ghodrati Amiri, G. and Golmohammadi, A. (2002), "Seismic Behaviour of Special Moment Frames with Dog-Bone Connections", *International Journal of Engineering Science*, Vol. 13, No. 2, pp. 145-156. (in Persian)

SELECTED CONFERENCE PAPERS

I have published more than 100 international and national conference papers. Followings are number of my published international conference papers:

Ghodrati Amiri, G., Zare Hosseinzadeh, A., Bagheri, A. and Koo, K.Y. (2017), "A Fast and Direct Algorithm for Structural Damage Identification Based on Modified Modal Residual Force", *Proceedings of the 16th World Conference on Earthquake Engineering*, Santiago, Chile, Jan. 9-13.

Zare Hosseinzadeh, A., Bagheri, A., Ghodrati Amiri, G. and Rizzo, P. (2015), "Damage Localization and Quantification in Seismic-Excited Structures Using Optimization-Based Algorithm", *Proceedings of the 11th Canadian Conference on Earthquake Engineering*, Victoria, BC, Canada, July 21-24.

Vahdat, K., Smith, N.J. and Ghodrati Amiri, G. (2014), "Seismic Risk Management: A System-Based Perspective", *Proceedings of the Second International Conference on Vulnerability and Risk Analysis and Management (ICVRAM)*, Liverpool, United Kingdom, July 13-16.

Ghodrati Amiri G. and Arian Moghaddam, S. (2012), "New Method for Generation of Synthetic

Near-Fault Earthquake Records Based on S-Transform”, *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisbon, Portugal, Sept. 24-28.

Bagheri, A. and Ghodrati Amiri, G. (2011), "Estimation of Damage in Bridges based on Modal Data via a New Evolutionary Algorithm", *Proceedings of the International Conference on Earthquake and Structural Engineering*, Venice, Italy, Nov. 28-30.

Naderpour, H., Ghodrati Amiri, G., Kheyroddin, A. and Hoseini Vaez, S.R. (2011), "Seismic Evaluation of Retrofitted RC Frames Using Neuro-Fuzzy Algorithms", *Proceedings of the 8th International Conference on Structural Dynamics*, Leuven, Belgium, July 4-6.

Karbassi, A., Mohebi, B., Lestuzzi, P. and Ghodrati Amiri, G. (2011), "Development and Application of Damage Spectra to Evaluate the Seismic Performance of Existing Reinforced Concrete Buildings in Greece", *Proceedings of the III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, Corfu, Greece, May 25-28.

Bakhshi, H., Ghodrati Amiri, G., Barkhordari, M.A. and Ronagh, H.R. (2011), "Estimation of Strong Ground Motion Parameters using Artificial Neural Networks”, *edBE2011 Proceedings*, Brisbane, Australia, April 28.

Hoseini Vaez, S.R., Ghodrati Amiri, G. and Naderpour, H. (2010), "Investigation of Seismic Response of Base-Isolated Structures with FPS and LRB", *Proceedings of the 14th European Conference on Earthquake Engineering (14ECEE)*, Skopje-Ohrid, Republic of Macedonia, Aug. 30–Sept. 03.

Azarhoosh, Z. and Ghodrati Amiri, G. (2010), "Elastic Response of Soil-Structure Systems Subjected to Near-Fault Rupture Directivity Pulses”, *Soil Dynamics and Earthquake Engineering*, American Society of Civil Engineers (ASCE): pp. 153-151. doi: 10.1061/41102(375)18 (*Proceedings of GeoShanghai International Conference 2010*, Shanghai, China, June 3-5)

Ghodrati Amiri, G., Bagheri, A., Seyed Razzaghi, S.A. and Asadi, A. (2009), "Structural Damage Detection in Plates Using Wavelet Transform", *Proceedings of the Fifth International Structural Engineering and Construction Conference (ISEC-5)*, Las Vegas, USA, Sept. 22-25.

Ghodrati Amiri, G., Razavian Amrei, S.A. and Mohebi, B. (2009), "Implicit Attenuation Relationship of Arias parameter for Iran using Artificial Neural Networks", *Proceedings of the Third International Conference on Modelling, Simulation, and Applied Optimization (ICMSAO'09)*, American University of Sharjah, Sharjah, United Arab Emirates, Jan. 20-22.

Ghodrati Amiri, G. and Asadi, A. (2008), "New Method for Simulation Earthquake Records by using Adapted Wavelet", *Proceedings of the 14th World Conference on Earthquake Engineering*, Beijing, China, Oct. 12-17.

Ghodrati Amiri, G., Mahmoodi, H. and Razavian Amrei, S.A. (2008), "Seismic Hazard Assessment of Tehran Based on Arias Intensity", *Proceedings of the 2008 Seismic Engineering International Conference (MERCEA'08)*, Reggio Calabria, Italy, July 8-11.

Ghodrati Amiri, G. and Bagheri, A. (2007), "Simulation of Earthquake Ground Motion Using

Wavelet Multiresolution Analysis and Nonstationary Kanai-Tajimi Model", *Proceedings of the 10th International Conference on Applications of Statics and Probability in Civil Engineering*, Tokyo, Japan, July 31-Aug. 3.

Zahedi, M., Ghodrati Amiri, G. and Akbarzadeh, M. (2007), "Characteristics of Vertical Spectrum in Near-Field Region and Investigation of Its Effects on the Dynamic Response of Bridges", *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering*, Paper No. 1535, Thessaloniki, Greece, June 25-28.

Ghodrati Amiri, G., Andisheh, K., Razavian Amrei, S.A. and Motamed, R. (2006), "Seismic Hazard Assessment of South Western of Iran", *Proceedings of the First European Conference on Earthquake Engineering and Seismology*, Paper No. 184, Geneva, Switzerland, Sept. 3-8.

Ghodrati Amiri, G., Raeisi Dehkordi, M., Massah, S.R. and Khamchin Moghaddam, F. (2006), "Evaluation of Design for Cold Formed Steel Building with Bearing Wall under Iranian Seismic Provisions", *Proceedings of the 8th International Conference on Steel, Space & Composite Structures*, K. Lumpur, Malaysia, May 15-17.

Ghodrati Amiri, Raeisi Dehkordi, M. and Bagheri, A. (2005), "Generation of Artificial Earthquake Records with a Nonstationary Kanai-Tajimi Model and Wavelet Transform", *Proceedings of the International Symposium on Innovation & Sustainability of Structures in Civil Engineering-Including Seismic Engineering (ISISS'2005)*, Nanjing, China, November 20-22.

Ghodrati Amiri, G., Razavian Amrei, S.A. and Motamed, R. (2005), "Evaluation of Vertical Seismic Hazard of Tehran", *Proceedings of the 3rd Specialty Conference on The Conceptual Approach to Structural Design*, Singapore, August 25-26.

Ghodrati Amiri, G., Zahedi, M. and Saleh Jalali, R. (2004), "Multiple-Support Seismic Excitation of Tall Guyed Telecommunication Towers", *Proceedings of the 13th World Conference on Earthquake Engineering*, Paper No. 212, Vancouver, B.C., Canada, August 1-6.

Ghodrati Amiri, G. and Jamalzadeh, M. (2003), "Nonlinear Response of Bolted End-Plate Steel Connections", *Proceedings of the International Conference on Advances in Structures (ASSCCA '03)*, Sydney, Australia, June 22-25.

Ghodrati Amiri, G. and Rabet Es-haghi, H. (2002), "The Investigation of the Design Parameters of the Iranian Earthquake Code of Practice based on Hazard Analysis", *Proceedings of the Third International Conference on Risk Analysis 2002*, Sintra, Portugal, June 19-21.

Ghodrati Amiri, G., (2001), "Lateral Seismic Behaviour of Tall Guyed Telecommunication Towers", *Proceedings of the CSCE Victoria 2001 Conference*, Canadian Society for Civil Engineering, Victoria, British Columbia, Canada, May 30-June 2.

Amiri, G.G. and McClure, G. (1998), "Seismic Base Shear of Tall Guyed Telecommunication Tower", *Proceedings of the 11th European Conference on Earthquake Engineering*, Paris, France, Sept. 6-11.

Amiri, G.G. and McClure, G. (1997), "Seismic Sensitivity of Tall Guyed Telecommunication Towers", *Proceedings of the 18th Meeting of the IASS-Working Group No. 4 on Masts and*

Towers, International Association for shell and Spatial Structures, Paper No. 12, Chicago, Sept. 14-18.

Amiri, G.G. and McClure, G. (1996), "Seismic Response of Tall Guyed Telecommunication Towers", *Proceedings of the Eleventh World Conference on Earthquake Engineering*, Paper No. 1882, Acapulco, Mexico, June 23-28.

Khaloo, A.R., Ghodrati Amiri, G. and Sabnis, G.M. (1992), "Stress-Strain Relationships and Ductility of High-Strength Concrete Flexural Members", *ACI Convention, State-of-the-Art Computer Application Symposium*, Washington, D.C., March 15-20.