# Farhad Behnamfar

## **Work Address**

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## **Education**

Tohoku University, Sendai, Japan PhD in Civil Engineering/Structural – Specialization: Soil-Structure Interaction (Sep. '97) Dissertation subject: Dynamic Response of Structures Considering Cross-Interaction Subject to Random Incident Waves

University of Tehran MSc in Civil Engineering/Structural (Sep. '90) Thesis subject: Approximate and Exact Methods for Dynamic Analysis of Base-Isolated Structures BSc in Civil Engineering (Sep. '88)

### **Professional Affiliations**

Iranian Earthquake Engineering Association Earthquake Engineering Research Institute (EERI)

## **Professional Experience**

Department of Civil Engineering, Isfahan University of Technology (IUT) Associate Professor (Nov. 2013 to Present), Assistant Professor (Sep. 2003 to Nov. 2013), Department of Structural Engineering, International Institute of Earthquake Engineering and Seismology (IIEES) Assistant Professor (Sep. 1998 to Sep. 2003) Current responsibilities include:

- 1. **Research**: in various aspects of earthquake engineering analysis and design especially performance based design and nonlinear static and dynamic analysis of structures. Supervising MSc and PhD students, with complete listing at https://behnamfar.iut.ac.ir/Theses and https://behnamfar.iut.ac.ir/theses-under.
- Teaching: Undergraduate: Dynamics, Strength of Materials, Earthquake Engineering. Graduate (M.Sc.): Dynamics of Structures, Earthquake Engineering, Seismic Risk Analysis, Earthquake Resistant Design, Seismic Rehabilitation. Graduate (Ph.D.): Soil-Structure Interaction, Advanced Dynamics of Structures, Boundary Elements Method.

#### 3. Industry:

- Head of one of four working teams assessing the seismic vulnerability of various industrial structures of Tehran refinery from May 2001. The project fulfilled in August 2002.
- Head of one of three working teams assessing the seismic vulnerability of Shiraz petrochemical complex from December 2002 till December 2003.
- Technical manager of the project on seismic evaluation of the schools of Tehran district 1 from June 2003 to June 2005.
- Invited researcher for earthquake engineering studies, Wupertal University, Wupertal, Germany, 2006.
- Member of the team on "Seismic Microzonation of Kashan City", 2008-2009.
- Project manager of an analytical and experimental research work on seismic resistant precast concrete moment frames, 2008-2010.
- Manager of the project 'Seismic Evaluation & Strengthening of Esfahan Power Plant and Shahrekord Power House", 2009-2012.
- Manager of the project 'Seismic Evaluation & Strengthening of Boushehr Province Gas Stations'', 2012-2014.
- Manager of the project "Seismic Strengthening of Ancient Closed-Roof Traditional Bazars of Isfahan", 2014, under a contract with Isfahan municipality.

### 4. Building Codes:

- Member of the technical committee for revision of the Iranian Code for Seismic Design of Buildings, from October 2019 till now.
- Member of the technical committee preparing the manual of seismic vulnerability assessment and rehabilitation of existing buildings under a grant from the Iranian planning and management organization from September 2000. The manual was prepared in July 2002.
- Member of the technical committee for subsequent revisions of the manual of seismic vulnerability assessment and rehabilitation of existing buildings, from February 2005 till now.
- Member of the technical committee preparing the manual of rapid seismic evaluation of existing buildings, from July 2003 to July 2006.
- Member of the technical committee preparing the code of practice for seismic vulnerability assessment and rehabilitation of existing bridges, 2005-2007.
- Member of the technical committee preparing the seismic design code for petroleum facilities for the Iranian oil ministry, from August 2002.
- Member of the technical committee preparing the manual of seismic vulnerability assessment and rehabilitation of existing network of electric power distribution under a grant from the Iranian planning and management organization, 2006-2010.
- Technical manager of the committee on preparing the handbook of seismic vulnerability assessment and rehabilitation of existing buildings under a grant from the Iranian planning and management organization from November 2005 to July 2007.

#### 5. Editorship:

- Guest editor, Frontiers in Built Environment, https://www.frontiersin.org/research-topics/20410/energy-dissipationsystems-and-seismic-fuses.
- Editor of the civil engineering section of International Journal of Engineering, www.ije.ir.
- Member of the editorial board of Journal of Sharif University of Technology,

http://sjce.journals.sharif.edu/journal/editorial.board?lang=en.

 Reviewer of several international journals including: Engineering Structures, Constructional Steel Research, Structural Design of Tall and Special Buildings, Soil Dynamics and Earthquake Engineering, Earthquake Engineering and Engineering Vibration, Bulletin of Earthquake Engineering, Journal of Earthquake Engineering, Tunneling and Underground Space Technology, etc.

#### 6. Consulting:

- Member of a team for seismic evaluation of a 56-story residential tower in Tehran, spanned from Feb. 2001 to Dec. 2002.
- Technical manager of the project on seismic evaluation and rehabilitation of a number of Tehran-Ahvaz railway bridges, August 2003 till Aug. 2005.
- Technical manager of the project on repair and strengthening of a number of earthquake damaged buildings of Bam city, 2005-2007.
- Technical manager of different seismic evaluation and rehabilitation projects on hospitals, schools, bridges, communication systems, Gas distribution networks, electrical substations, 2003-2011.
- Senior advisor, structural engineering consultants, from Oct. 97 till now.

## **Publications:**

### 1) Journal publications

1. Koopaizadeh J., Behnamfar F., Javaheri Tafti M.R. (2024). "Experimental evaluation of cyclic behavior of precast concrete frame with steel shear wall," The Structural Design of Tall and Special Buildings (accepted).

2. Koopaizadeh J., Behnamfar F., Javaheri Tafti M.R. (2024). "Laboratory evaluation of cyclic behavior of precast concrete frame with steel shear wall," Modares Civil Engineering Journal, (accepted) (In Persian with English abstract).

Behnamfar F., Hadian A., Farazmand M. (2024). "Ductility demand estimation of high-rise steel special moment frames due to structure-pile-soil interaction," Geomechanics and Geoengineering, DOI: 10.1080/17486025.2024.2357186 (Accepted).
 Aghliani M., Behnamfar F. (2024). "Three-dimensional behavior of a pure bending

yielding damper," Soil Dynamics and Earthquake Engineering, 182, 108719.

5. Almohammad-albakkar M., Behnamfar F., Ataei A. (2024). "Experimental and numerical study of grooved gusset plate damper for cross-braced frames," Journal of Constructional Steel Research, 216, 108611.

6. Mehrbod A.H., Behnamfar F., Aziminejad A., Hashemol-Hosseini H. (2024). "Seismic reliability of stone arch bridges considering the uncertainty of material properties based

on the response surface method," Journal of Analysis of Structure and Earthquake, Vol. 21, Issue 2, pp. 1-20 (in Persian).

 Mozaheb S.A., Behnamfar F. (2024). "Finite element analysis of elastomeric sliding isolator system (ESI)", Structural Engineering and Construction (Accepted) (in Persian).
 Behnamfar F., Almohammad-albakkar M. (2023). "Development of Steel Yielding Seismic Dampers Used to Improve Seismic Performance of Structures: A Comprehensive Review," International Journal of Engineering, Transactions A: Basics, Vol. 36, No. 04, 746-775.

9. Behnamfar F., Ahmadi A., Gohari Anaraki A.M., Mazrouei V. (2023). "Performance evaluation of concentrically braced frames equipped with pure bending yielding damper," Structures, 58, 105650.

10. Mehrbod A.H., Behnamfar F., Aziminejad A., Hashemol-Hosseini H. (2023). "Seismic vulnerability assessment of stone arch bridges by nonlinear dynamic analysis using discrete element method," International Journal of Architectural Heritage, 17:11, 1791-1812.

11. Ghandil M., Tajmir Riahi H., Behnamfar F. (2023). "Numerical and experimental studies on a new metallic-yielding pistonic damper based on pure-bending flexural yielding mechanism," Journal of Building Engineering, 78, 107690.

12. Yazdani A. A., Behnamfar, F. (2023). "Serviceability design spectral acceleration for structures subjected to passing underground trains," Iranian Journal of Science and Technology, Transactions of Civil Engineering, <u>https://doi.org/10.1007/s40996-023-01117-7</u>.

13. Jabari Salmi Z., Khodakarami M.I., Behnamfar F. (2023). "Development of seismic fragility curves for RC/MR frames using machine learning methods," Asian Journal of Civil Engineering, Vol. 24, pp. 823-836.

14. Almohammad-albakkar M., Behnamfar F. (2022). "Numerical investigation of grooved gusset plate damper for using in cross-braced frames," Journal of Constructional Steel Research, 196, 107434.

15. Mostafaei H., Behnamfar F., Alembagheri M. (2022). "Reliability and sensitivity analysis of wedge stability in the abutments of an arch dam using artificial neural network," Earthquake Engineering and Engineering Vibration, 21(4), 1019-1033.

16. Mirlohi J., Memarzadeh P., Behnamfar F., Bayat M. (2022). "Rocking motion of a mid-rise steel plate shear wall on foundation-soil medium," Iranian Journal of Science and Technology, Transactions of Civil Engineering (Accepted).

17. Behnamfar F., Fazili Nezhad H. (2022). "Comparison of seismic fragility of special moment frames in recent editions of ASCE 7 and ACI 318 regulations," Journal of Numerical Methods in Civil Engineering, 7-2, 16-32.

18. Behnamfar F., Hosseini-Rad A., Mesr Habiby Y. (2022). "A procedure for damagebased seismic design of moment frame structures," Bulletin of Earthquake Engineering (Accepted).

19. Shams A.H., Behnamfar, F. (2022). "Nonlinear seismic behavior of torsional buildings designed based on force and displacement procedures," Iranian Journal of Science and Technology, Transactions of Civil Engineering (Accepted).

20. Panahi M., Behnamfar, F. (2022). "Comparison of the lateral behavior of precast concrete frames equipped with and without steel shear wall using cyclic analysis,"

Bulletin of Earthquake Science and Engineering, Vol. 9, pp 55-75 (In Persian with English abstract).

21. Ghandil M., Tajmir Riahi H., and Behnamfar F. (2022). "Introduction of a new metallic-yielding pistonic damper for seismic control of structures," Journal of Constructional Steel Research, 194: 107299.

22. Behnamfar F., Arman S., and Zibasokhan H. (2022). "Steel rings as seismic fuses for enhancing ductility of cross braced frames," Earthquake Engineering and Engineering Vibration, 21 (4), pp 1103-1117.

23. Behnamfar F., Eslami S., Sayyadpour H. (2022). "Evaluation of the YPS method for Regular RC Buildings Designed Based on the Iranian Standard 2800," Amirkabir Journal of Civil Engineering, Vol. 53, No.8, pp 3535-3554.

24. Faraj Mohammadieh M., Behnamfar F., and Mohammadi S. J. (2022). "Effects of Urban Tunnel Excavation in Tehran in Response to Existing Static and Dynamic Structures in Terms of Soil and Structure Interaction," Amirkabir Journal of Civil Engineering (Accepted).

25. Mostafaei H. and Behnamfar F. (2022). "Wedge movement effects on the nonlinear behavior of an arch dam subjected to seismic loading," International Journal of Geomechanics, 22(3): 04021289.

26. Nazaralizadeh H., Ronagh H., Memarzadeh P., Behnamfar F. (2021). "A practical design approach to bolted end-plate vertical-slits RWS connection," Bulletin of Earthquake Engineering, doi: 10.1007/s10518-021-01238-2.

27. Abbasnia Marzouni H. and Behnamfar F. (2021). "Nonlinear Response Study and a Rotational Spring Model for Degrading Cyclic Behavior of Interior Reinforced Concrete Connections," Journal of Earthquake Engineering (Accepted). doi: 10.1080/13632469.2020.1756989.

28. Akhoondi M.R. and Behnamfar F. (2021). "Seismic fragility curves of steel structures including soil-structure interaction and variation of soil parameters," Soil Dynamics and Earthquake Engineering, Vol. 143, 106609.

29. Beyki Milajerdi M. and Behnamfar F. (2021). "Soil-structure interaction analysis using neural networks optimized by genetic algorithm," Geomechanics and Geoengineering (Accepted). DOI: 10.1080/17486025.2021.1940313.

30. Morsali, V., Behnamfar, F. (2021). "Seismic Damage Based Design of Steel Moment Frames," European Journal of Environmental and Civil Engineering, Vol. 25, No. 9, pp 1591-1608.

31. Mohammadi E. and Behnamfar F. (2021). "An equation to estimate maximum normal strain of buried steel pipes at bend area under propagating waves in sands," Scientia Iranica (Accepted).

32. Sheikh Bahaei P., Behnamfar F., Kabiri Samani A. (2021). "Dynamic response of cylindrical water storage tanks made by ECC compared to normal concrete," Earthquakes and Structures, Vol. 20, No. 5, pp 513-529.

33. Bagheri G., Ashtari P., Behnamfar F. (2021). "Rigid-Plastic Analysis of Seismic Resistant T-Frame considering Moment-Shear Interaction," Shock and Vibration, Vol. 2021, Article ID 8844039, 12 pages.

34. Mostafaei H., Behnamfar F., Kelishadi M., Aghababaie M. (2021). "The effects of friction coefficient on the nonlinear behavior of an arch dam with jointed foundation," Numerical Methods in Civil Engineering, Vol. 5, No. 4, 36-45.

35. Behnamfar F., Tavakoli B. (2021). "Developing a method for multi-modal shear-based pushover analysis," Asian Journal of Civil Engineering, 22: 217–228.
36. Shafiei Varzaneh M., Behnamfar F. (2021). "Effect of opening on the lateral stiffness of masonry walls with and without ties," Amirkabir J. Civil Eng., 52(12), 1-12 (In Persian with English abstract).

37. Madani B., Behnamfar F. (2021). "Parametric Study of Structure-Soil-Structure Interaction in Time and Frequency Domains," Amirkabir J. Civil Eng., 52(11), 1-17 (In Persian with English abstract).

38. Kermani, M., Saadatpour, M. M., Behnamfar, F., Ghandil, M. (2020). "Effects of Seismic Pounding between Adjacent Structures Considering Structure-Soil-Structure Interaction," Scientia Iranica A, 27(5), 2230-2246.

39. Kazemi M.S., Behnamfar F. (2020). "Active control of structures based on an arbitrary damage index distribution," Amirkabir J. Civil Eng., 4(3), 385-396.

40. Mostafaei H., Behnamfar F., Alembagheri M. (2020). "Nonlinear analysis of stability of rock wedges in the abutments of an arch dam due to seismic loading," Structural Monitoring and Maintenance, Vol. 7, No. 4, 295-317.

41. Davarpanah M., Ronagh H., Memarzadeh P., Behnamfar F. (2020). "Cyclic behavior of welded elliptical-shaped RWS moment frame," Journal of Constructional Steel Research, Vol. 175, 106319 (pp. 1-17).

42. Nazaralizadeh H., Ronagh H., Memarzadeh P., Behnamfar F. (2020). "Cyclic performance of bolted end-plate RWS connection with vertical slits," Journal of Constructional Steel Research, Vol. 173, 106236 (pp. 1-18).

43. Davarpanah M., Ronagh H., Memarzadeh P., Behnamfar F. (2020). "Cyclic behaviour of elliptical-shaped reduced web section connection," Structures, Vol. 24, 955-973.

44. Shirzadi M., Behnamfar F., Asadi P. (2020). "Effects of soil-structure interaction on inelastic response of torsionally- coupled structures," Bulletin of Earthquake Engineering, Vol. 18: 1213-1243.

45. Soltanabadi R., Mamazizi A., Behnamfar F. (2020). "Evaluating the performance of chevron braced frame with RSCD viscoplastic damper," Engineering Structures, Vol. 206, 110190.

46. Behnamfar F., Babaei A.H., Ghandil M. (2020). "Smoothed response spectra including soil-structure interaction effects," Earthquake Engineering and Engineering Vibration, 19(1): 37-51, January.

47. Haghollahi S., Behnamfar F. (2020). "Performance Evaluation of Special RC Moment Frames against Collapse Considering Soil–Structure Interaction," International Journal of Geomechanics, ASCE, 20(2): 04019176.

48. Behnamfar, F. Soltanabadi, R. (2020). "Analytical studies on a combined rubber-steel damper for repairable steel moment connections," Journal of Earthquake Engineering, 24:1, 37-58.

49. Mostafaei H., Behnamfar F. (2019) "Effect of the vertical earthquake component on nonlinear behavior of an arch dam having a foundation with discontinuities," Numerical Methods in Civil Engineering, Vol. 4, No. 2, 69-78.

50. Andalibi M., Behnamfar F. (2019). "An approximate method for separated spectral analysis of connected buildings with added damping," Structural Design of Tall and Special Buildings, 28(10):1-17 (July).

51. ZibaSokhan H., Behnamfar F., Azhari M. (2019). "Experimental study of a new pure bending yielding dissipater," Bulletin of Earthquake Engineering, 17: 4389-4410.
52. Farahani D., Behnamfar F., Sayyadpour H. (2019). "Effect of pounding on nonlinear seismic response of torsionally coupled steel structures resting on flexible soil," Engineering Structures, 195: 243–262.

53. Farahani D., Behnamfar F., Sayyadpour H., Ghandil M. (2019). "Seismic impact between adjacent torsionally coupled buildings," Soil Dynamics and Earthquake Engineering, 117: 81–95.

54. Hajimehrabi, H., Behnamfar, F., Kabiri Samani, A., Goudarzi, M.A. (2019). "Fragility curves for baffled concrete cylindrical liquid-storage tanks," Soil Dynamics and Earthquake Engineering, Vol. 119, 187-195.

55. Behnamfar, F., Talebi Velni, M. (2019). "A rapid screening method for selection and modification of ground motions for time history analysis," Earthquakes and Structures, Vol. 16, No. 1, 29-39.

56. Behnamfar, F., Naseri-Dehkordi, A. (2019). "Modal nonlinear static analysis of structures based on story shears," Amirkabir University Journal of Civil Engineering, 3(1), 119-128.

57. Shakeri, E., Behnamfar, F. (2019). "A survey on parameters affecting the lateral behavior of composite shear walls," Journal of Amirkabir University of Technology, 51(1), 67-76 (In Persian with English abstract).

58. Faraj Mohammadieh, M., Behnamfar, F., Ouria, A. (2018). "Effects of Deep Excavation on Seismic Vulnerability of Existing Steel Framed Structures," Modares Civil Engineering Journal, Vol. 18, No. 4 (In Persian with English abstract).

59. Hadi, M., Behnamfar, F., Arman, S. (2018). "A Shear-based Adaptive Pushover Procedure for Moment-resisting Frames," AUT Journal of Civil Engineering, Vol. 2, No. 2, 183-194.

60. Nikbakht, R., Behnamfar, F. (2018). "Response Spectra of Structures under Subway Induced Vibrations," International Journal of Engineering, Transactions C: Aspects, Vol. 31, No. 12, December: 2009-2015.

61. Sabet Rasekh, M., Behnamfar, F. (2018). "Displacement-based design of torsional buildings considering two-way nonlinearities," Journal of Sharif University of Technology (Accepted) (In Persian with English abstract).

62. Behnamfar, F., Pouyan, F., Omidi, M. and Zibasokhan, H. (2018). "Effect of uplift on behavior of steel structures and response modification factors," Journal of Amirkabir University of Technology, 50 (2): 315-326 (In Persian with English abstract).

63. BiabanNavard, M., Behnamfar, F., and Zibasokhan, H. (2018). "Cyclic behavior of battened and laced columns and proposing a substitute super-element," Journal of Amirkabir University of Technology, 50 (1): 97-110 (In Persian with English abstract).
64. Heydari, M., Behnamfar, F., and Zibasokhan, H. (2018). "A macro-model for nonlinear analysis of 3D reinforced concrete shear walls," International Journal of Engineering, Transactions B: Applications, 31 (2), 220-227.

65. Karimi, M., Behnamfar, F. (2018). "A three-dimensional drift pushover method for unsymmetrical plan buildings," Bulletin of Earthquake Engineering, No. 11, Vol. 16: 5397-5424, Nov.

66. Moradi, R., Behnamfar, F., Hashemi, S. (2018). "Mechanical model for cylindrical flexible concrete tanks undergoing lateral excitation," Soil Dynamics and Earthquake Engineering, 106, 148-162.

67. Behnamfar, F., Najar, M. (2018). "Combined dynamic actuator-shake table test with optimized input energy," Journal of Engineering Mechanics, ASCE, 144 (3): 1-6. 68. Soltanabadi, R., Behnamfar, F. (2018). "Experimental studies on a combined damper for repairable steel moment connections," International Journal of Steel Structures, 18 (1), pp 211-224, March.

69. Yazdabad, M., Behnamfar, F., Samani, A.K. (2018). "Seismic behavioral fragility curves of concrete cylindrical water tanks for sloshing, cracking, and wall bending," Earthquakes and Structures, 14 (2): 95-102.

70. Jafari, A., Kabiri-Samani, A., Behnamfar, F., (2018). "Flow-induced horizontal and vertical vibrations of sluice gates due to different hydraulic conditions," Water Management, Proceedings of the Institution of Civil Engineers, 171(3), 152-162.

71. Behnamfar, F., Fathollahi, A. (2017). "Soft Soil Seismic Design Spectra Including Soil-Structure Interaction," International Journal of Engineering, Transactions A: Basics, 30 (10), 1443-1450.

72. Soleimani, E., Behnamfar, F. (2017). "New moment-rotation equation for welded steel beam-to-column connections," International Journal of Steel Structures, 17 (2): 1-23.
73. Behnamfar, F., Mirhosseini, M., Alibabaei, H. (2017). "Seismic behavior of structures considering uplift and soil structure interaction," Advances in Structural Engineering, 20 (11): 1712-1726.

74. Behnamfar, F., Mohajeri, A.H., (2017). "Response amplification factors and dynamic behavior of tube and outrigger systems of tall buildings on flexible soil," Journal of Amirkabir University of Technology, 49 (4): 723-732 (In Persian with English abstract).
75. Shafiei Varzaneh, M., Behnamfar, F. (2017) "Effect of opening on the lateral behavior of masonry walls with and without concrete ties," Sharif Science & Research Journal, Sharif University of Technology (In Persian with English abstract).

76. Behnamfar, F., Nooraei, M., Talebi Velni, M., (2017). "A three-step method for earthquake record selection for dynamic analysis of structures," Journal of Amirkabir University of Technology, 49 (1): 127-138 (In Persian with English abstract).

77. Ghandil, M., Behnamfar, F. (2017). "Ductility demands of MRF structures on soft soils considering soil-structure interaction," Soil Dynamics and Earthquake Engineering, 92, 203-214, Jan. 2017.

78. Jahangiri, A., Behnamfar, F. and Jahangiri, M. (2016). "Introducing the innovative post-tensioned connection with the rigid steel node," KSCE Journal of Civil Engineering, 21(4): 1247-1255.

79. Behnamfar, F., Artoonian, R., Ghandil, M. (2016). "Nonlinear modelling and seismic behavior of precast concrete structures with steel shear walls," Bulletin of the New Zealand Society for Earthquake Engineering, 49 (4), 293-304, Dec. 2016.

80. Behnamfar, F., Moghtaderi-Esfahani, A., Nikbakht, R., Ghandil, M. (2016). "Analysis of structural vibrations due to passage of underground trains," International Journal of Engineering, 29 (6), 742-751, June 2016.

81. Rajabipour, A., Behnamfar, F. (2016). "A fire ignition model and its application for estimating loss due to damage of the urban gas network in an earthquake," International Journal of Engineering, 29 (11), 1507-1519, Nov. 2016.

82. Behnamfar, F., Sayyadpour, H. (2016). "The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis. Part I: Theory and methodology," Bulletin of Earthquake Engineering, 14 (8), 2361-2384, Aug. 2016.
83. Sayyadpour, H., Behnamfar, F., El Naggar, M.H. (2016). "The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis. Part II: Verification and example application," Bulletin of Earthquake Engineering, 14 (8), 2385-2404, Aug. 2016.

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85. Kermani, H., Behnamfar, F., Morsali, V. (2016). "Seismic Design of Steel Structures Based on Ductility," International Journal of Engineering, Transactions A, Vol. 29, No. 1.
86. Behnamfar, F., Fathollahi, A. (2016). "Conversion Factors for Design Spectral Accelerations Including Soil-Structure Interaction," Bulletin of Earthquake Engineering, 14 (10), 2731-2755, Oct. 2016.

87. Fazeli, E., Behnamfar, F. (2016). "Material and Geometrical Nonlinear Analysis of Structures Using Improved Applied Element Method (IAEM)," Numerical Methods in Engineering, 35 (1), 65-81, Summer 2016 (In Persian with English abstract).

88. Behnamfar, F., Alibabaei, H. (2016). "Classical and non-classical time history and spectrum analysis of soil-structure interaction system," Bulletin of Earthquake Engineering, 14 (10), 2731-2755, Oct. 2016.

89. Behnamfar, F., Dorafshan, S., Taheri, A., Hashemi, B.H. (2016). "A method for rapid estimation of dynamic coupling and spectral responses of connected adjacent structures," The Structural Design of Tall and Special Buildings, 25 (3), 605-625, Mar. 2016.

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91. Ghandil, M., Behnamfar, F., Vafaeian, M. (2016). "Dynamic responses of structuresoil–structure systems with an extension of the equivalent linear soil modeling," Soil Dynamics and Earthquake Engineering, 80, 149-162.

92. Banisheikholeslami, A., Behnamfar, F., Ghandil, M. (2016). "A beam-to-column connection with visco-elastic and hysteretic dampers for seismic damage control," Journal of Constructional Steel Research, 117, 185-195.

93. Behnamfar, F., Banizadeh, M. (2016). "Effects of soil–structure interaction on distribution of seismic vulnerability in RC structures," Soil Dynamics and Earthquake Engineering, 80, 73-86.

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95. Behnamfar, F., Rafizadeh, H., Omidi, M. (2015). "Innovative connections for precast concrete moment resisting frames," Bulletin of the New Zealand Society for Earthquake Engineering, 48, 3, 204-220.

96. Abbasi, H., Behnamfar, F., Fathollahi, A. (2015). "Dynamic analysis of soil-structure interaction using the neural networks and the support vector machines," Expert Systems with Applications, 42, 8971-8981.

97. Madani, B., Behnamfar, F., Tajmir Riahi, H. (2015). "Dynamic response of structures subjected to pounding and structure-soil-structure interaction," Soil Dynamics and Earthquake Engineering, 78, pp 46-60.

98. Omidi, M., Behnamfar, F. (2015). "A numerical model for simulation of RC beamcolumn connections," Engineering Structures, 88, 51–73.

99. Ghandil, M., Behnamfar, F. (2015) "The near-field method for dynamic analysis of structures on soft soils including inelastic soil-structure interaction," Soil Dynamics and Earthquake Engineering, 75, 1–17.

100. Saberi, M., Behnamfar, F., Vafaeian, M. (2015). "A Continuum Shell-beam Finite Element Modeling of Buried Pipes with 90-degree Elbow Subjected to Earthquake Excitations," International Journal of Engineering, Transactions C: Aspects, 28, 3, 338-349.

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