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Morteza Bastami

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PERSONAL PROFILE:

First Name: **Morteza**

Last Name: **Bastami**

Date of Birth: September 25, 1974

Nationality: Iranian

Place of Birth: Bijar, Kurdistan

Mother Tongue: Kurdish and Persian

Other Languages: English

Status of Marriage: Married

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EDUCATION:

B.Sc. in Civil Engineering: University of Tabriz, Iran (1993-1997)

M.Sc. in Civil Engineering (Earthquake), Department of Civil Eng., Sharif University of Technology, Iran (1997-1999). *Dissertation title: Nonlinear behavior of offshore jacket platforms against earthquake by case study of SPD1&SPD2 jackets in South-Pars oil field.*

Ph.D. in Structural (Earthquake) Engineering, Department of Civil Eng., Kobe University, Japan (2004-2007). My Ph.D. degree is equivalent to a doctor of philosophy degree in structural engineering from a regionally accredited institution in the United States (evaluated by Foundation for International Services, Inc.). *Dissertation title: Seismic reliability of power supply system based on probabilistic approach.*

CURRENT POSITION:

- 1- Associate Professor, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.
- 2- Director, Department of Lifeline Earthquake Engineering, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.(Since Jan., 2022)
- 3- Design and Construction manager, Advanced Earthquake Engineering Laboratories Project (IIEES), 2011-present. This project is a national project. These laboratories are unique in West of Asia and Middle East. (So far, \$ 24 million has been spent to build and equip this project). The project and my task will be finished in Jan. 2022.

(IIEES was established in November 1989 following the suggestion of 24th UNESCO General Conference and approval of Iranian government "Council of Higher Education Development")

- 4- Director, Think Tank of Innovation and Future Research in Crisis Management, NDRI, Tehran, Iran. (Since March, 2021)

Details of work:

Participating in the institute activities such as teaching and coordinating MSc and PhD courses, supervising PhD and MSC students and coordinating research and engineering projects.

ACADEMIC PROFESSIONAL CAREER:

- 1999-2004 Lecturer, Department of Civil Eng., University of Kurdistan, Sanandaj, Iran
- 2005-2007 Part time Research Assistant, Kobe University, Japan (During my Ph. D. Course)
- 2007-2010 Assistant professor, Department of Civil Eng., University of Kurdistan, Sanandaj, Iran
- 2010-2014 Assistant professor, Structural Engineering Research Center, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran
- 2014-Now Associate Professor, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran
- 2012-2018 Invited professor for teaching a PhD course, Tehran University
- 2015 Invited professor for teaching a PhD course, Sharif University of Technology

AWARDS:

1. Scholarship for Ph.D. Course by Ministry of Science & Technology of Iran (2004-2007).
2. Best Researcher, Department of Civil Engineering, University of Kurdistan, 2008.

3. Best Research Director, IIEES, 2014.
4. Best Researcher, IIEES, 2020.
5. The best technical paper, 2021, Tehran Municipality(Tehran Urban Research and Planning Center)
6. Title of paper is:"*S Borzoo, M Bastami*, A Fallah, Extreme Scenarios Selection for Seismic Assessment of Expanded Lifeline Networks, Structure and Infrastructure Engineering, 1-18, 2020.*
7. The best research, Insurance Research Center, 2021.
8. Title of my research is: "**Calculation of Risk and Earthquake Insurance Rates for Residential Buildings in Line with the Iranian Catastrophe Insurance Pool**", funded by Insurance Research Center, (2020)"

PROFESSIONAL EXPERIENCES AND SKILLS:

1. Earthquake engineering
2. Structural engineering hazard analysis
3. Seismology engineering
4. Risk assessment of structures and infrastructures
5. Design and analysis of buildings and special structures
6. Retrofitting of structures and infrastructures
7. Fire performance of structures and infrastructures
8. Concrete technology

TEACHING EXPERIENCES:

- Mechanics of Materials
- Design of Steel Structures
- Design of RC Structures
- Analysis of Structures
- Earthquake Hazard Analysis
- Earthquake Engineering
- Bridge Engineering
- Seismic Design of Structures
- Lifeline Earthquake Engineering
- Reliability of Structures

SCIENTIFIC COMMITTEES:

- 2007-2012 Member of scientific committee, Seismic Design and Retrofit Code for Urban Lifeline Systems in Iran, MPO, Iran.
- 2012-2022 Member of scientific committee, Guidelines for seismic design of sewage networks", Tehran Water & Wastewater Company.
- 2019-2022 Member of scientific committee, National Strategy Plan for

Disaster Risk Management, NDRI, Iran

- 2019-2022 Member of scientific committee, National Plan for Disaster Risk Reduction, NDRI, Iran
- 2019-2022 Member of scientific committee, National Plan for Post Disaster Reconstruction and Rehabilitation, NDRI, Iran
- 2020-2022 Member of scientific committee, Iranian Code of Practice for Seismic Resistant Design of buildings, 5th Edition. BHRC, Iran

PRACTICAL EXPERIENCE:

- Structural analysis and design of more than 30 engineering (RC or Steel) buildings, Construction Engineering Organization of Kurdistan Province, Iran.
- Design retrofit of two bridges, Department of Road & Transportation of Kurdistan Province and Arman Rah Consulting Engineers Co.
- Design and Construction manager, Advanced Earthquake Engineering Laboratories Project (IIEES), 2011-present. This project is a national project. These laboratories are unique in West of Asia and Middle East. (So far, \$ 24 million has been spent to build and equip this project). The project and my task will be finished in Jan. 2022.

RESEARCH FUNDS:

1. Seismic design of sewer lines with diameters of 1000 mm and higher in Districts 21, 22 and southwest of Tehran, funded by Tehran Water & Wastewater Company, (2019-2021). I was manager of the project.
2. A novel spatial correlation model based on anisotropy of earthquake ground-motion intensity for seismic risk and resilience assessment of the portfolio of buildings and infrastructure systems, IIEES, (2017-2020). I was manager of the project.
3. Scenarios selection for seismic assessment of expanded lifeline networks using extreme theory, IIEES, (2017-2020). I was manager of the project.
4. Calculation of Risk and Earthquake Insurance Rates for Residential Buildings in Line with the Iranian Catastrophe Insurance Pool, funded by Insurance Research Center, (2020-2021). I was manager of the project.
5. Shaking table test to evaluate the performance of emergency shut-off valve for water reservoir, funded by Tehran Water & Wastewater Company, (2019). I was manager of the project.
6. Cyclic response of large-scale side plate connection for Iran-IMAX project, Funded by Iran-Shahr Co. Tehran, Iran, (2019). I was manager of the project.
7. Vulnerability of Tehran Sewage Network, funded by Tehran Water & Wastewater Company, (2018-2019). I was manager of the project.
8. An investigation on seismic forces imposed to rectangular-cross-section underground structures due to shear wave field of ground motions, funded by International Institute of Earthquake Engineering and Seismology (IIEES), (2015-2017). I was manager of the project.
9. "Development of Guidelines for Seismic Design of Sewage Networks", funded by Tehran Water & Wastewater Company, (2013-2015). I was manager of the project.

10. Development of centrally and eccentrically fused braced frames for seismic regions, IIEES, (2012-2014). I was manager of the project.
11. Loss Estimation of Urban Lifeline Systems by case Study of Iran Recent Earthquakes, funded by International Institute of Earthquake Engineering and Seismology (IIEES), (2013-2014). I was manager of the project.
12. Development of Seismic Velocity Spectra for Iranian Plateau for Special and Buried Structures, funded by International Institute of Earthquake Engineering and Seismology (IIEES), (2013-2015). I was manager of the project.
13. "Performance of Buildings and Infrastructures and Insurance Companies in the 2012 Ahar-Varzaghan, Iran Earthquake", funded by Insurance Research Center, (2013-2015). I was manager of the project.
14. Performance of Normal- and High-Strength Concretes at Elevated Temperatures, University of Kurdistan, (2009-2012). I was manager of the project.
15. "Development of Building's Insurance Model and Strategies in Iran", funded by Insurance Research Center, (2010-2012). I was manager of the project.
16. "Vulnerability of 50 Bridges in Kurdistan Province, funded by Department of Road & Transportation of Kurdistan Province", Iran, (2008-2009). I was manager of the project.
17. Development of Guidelines for Seismic Design of Lifeline Networks(11 volumes), Kobe University, Funded by Planning and Budget Organization, (2007-2012). Published as National Guidelines No. 600 to No. 610 for MPO):
 - Guidelines for Seismic Loading on Lifeline Utilities in Iran
 - Seismic Design Guidelines for Water Supply System in Iran
 - Seismic Design Guidelines for Gas Supply System in Iran
 - Seismic Design Guidelines for Power Supply System in Iran
 - Seismic Design Guidelines for Tele-communication System in Iran
 - Seismic Design Guidelines for Wastewater System in Iran
 - Seismic Retrofit Guidelines for Water Supply System in Iran
 - Seismic Retrofit Guidelines for Gas Supply System in Iran
 - Seismic Retrofit Guidelines for Power Supply System in Iran
 - Seismic Retrofit Guidelines for Tele-communication System in Iran
 - Seismic Retrofit Guidelines for Wastewater System in Iran
18. Seismic Vulnerability of Power Distribution System of Tehran Regional Electric Power Company, Kobe University, Funded by Tehran Regional Electric Power Company, (2004-2006).
19. Damage Evaluation, mitigation, strengthening, control and disaster management of Tehran Gas System during earthquake, Joint Project, Osaka Gas Eng. Co (OGE), PWUT, and Kobe University, Funded by Tehran Gas Company, (2004).

MISSIONS:

1. Field survey in impacted areas after the 2021 Fin, Hormozgan (Iran) Earthquake, submitted to IIEES, (2021).
2. Field survey in impacted areas after the 2017 North Bojnourd (Iran) Earthquake, submitted to IIEES, (2017).

3. Field survey in impacted areas after the 2017 Sar-Pole Zahab (Iran) Earthquake, submitted to IIEES, (2017).
4. Field survey in impacted areas after the 2013 Dashti - Bushehr (Iran) Earthquake, submitted to IIEES, (2013).
5. Field survey in impacted areas after the 2011 Van (Turkey) Earthquake, submitted to IIEES, (2011).
6. Field survey in impacted areas after the 2008 Wenchuan - China Earthquake, SUBMITTED to IIEES, (2008)
7. Field survey in impacted areas after the 2003 Bam Earthquake which submitted to JSCE (Japan Society of Civil Engineering), (2004)

CURRENT RESEARCH PROJECTS:

- 1- Development of models to estimate earthquake direct and indirect economic losses, Funded by IIEES, 2020-Now.
- 2- Deterministic and probabilistic resilience assessment measures for engineering and infrastructure systems based on the economic impacts. Funded by IIEES, 2021-Now.
- 3- Determining the behavioral characteristics of polymer concrete under cyclic loads, funded by Polymer Concrete Pipe Manufacture.co, 2020-Now.

SUPERVISION OF MASTER AND PHD THESES:

I have supervised 21 master's and five doctoral theses.

PUBLICATIONS

Peer indexed journal papers(Indexed in Web of Science(Thomson Reuters ISI), Scopus, EBSCO, ProQuest or ISC)

1. Hosein Ghasvand, Morteza Bastami*, Reza Farokhzad, **Enhancing the Internal curing process of self-compacting concrete containing lightweight aggregate and chemical additives**, European Journal of Environmental and Civil Engineering, (In press).
2. Mostafa Abbasnejadfad, Morteza Bastami*, Seyed-Abdolreza Hashemi, **Experimental investigation on the stress-strain behavior of unsaturated polyester polymer concrete subjected to monotonic and cyclic loadings**, Journal of Building Engineering, Elsevier, 2021, <https://doi.org/10.1016/j.jobe.2021.103966>
3. Morteza Bastami*, Mehdi Hidarmoradi, Javad Chegini, **Reinforced Concrete Beams with Hexagonal Chicken Wire under Monotonic and Cyclic Loading**, International Journal of Civil Engineering, Springer, 2021. <https://doi.org/10.1007/s40999-021-00692-y>

4. Morteza Abbasnejadfar, Morteza Bastami*, Afshin Fallah, **Investigating the Spatial Correlations in Univariate Random Fields of Peak Ground Velocity and Peak Ground Displacement Considering Anisotropy**, Geoenvironmental Disasters, 2021. <https://doi.org/10.1093/gji/ggaa255>
5. M Abbasnejadfar, M Bastami*, A Fallah and A. Garakaninezhad, **Analyzing the Effect of Anisotropic Spatial Correlations of Earthquake Intensity Measures on the Result of Seismic Risk and Resilience Assessment of the Portfolio of Buildings and Infrastructure Systems**, Bulletin of Earthquake Engineering (2021). <https://doi.org/10.1007/s10518-021-01203-z>
6. Jahangir Elyasi, Morteza Bastami*, Mohsen Kamalian, Mehdi Derakhshandi, **Investigation the Influence of Topographic Effect on the Seismic Response of Buried Pipelines**, Geoenvironmental Disasters, 22, 2021, <https://doi.org/10.1186/s40677-021-00186-y>
7. S Borzoo, M Bastami*, A Fallah, **Extreme Scenarios Selection for Seismic Assessment of Expanded Lifeline Networks**, Structure and Infrastructure Engineering, 1-18, 2020. Doi: 10.1080/15732479.2020.1811989
8. M Abbasnejadfar, M Bastami*, A Fallah, **Investigation of Anisotropic Spatial Correlations of Intra-Event Residuals of Multiple Earthquake Intensity Measures using Latent Dimensions Method**, Geophysical Journal International 222 (2), 1449-1469, 2020. Doi: 10.1093/gji/ggaa255
9. S Borzoo, M Bastami*, A Fallah, **Modeling Extreme Ground-Motion Intensities using Extreme Value Theory**, Pure and Applied Geophysics 177, 4691-4706, 2020. <https://doi.org/10.1007/s00024-020-02519-8>
10. Hossein Jahankhah, Amir Hossein Pariz , Morteza Bastami , and Majid Kiani, **Approximate Estimation of Critical Bedrock Depth to be Implemented in Preliminary Seismic Design of Underground Structures**, Vol. 7, No. 2, 2020 (In Persian).
11. Morteza Bastami*, Roohollah Ahmady Jazany, **Development of Centrally Fused Braced Frame (CFBF) for Seismic Regions**, Soil Dynamics and Earthquake Eng. September 2019.
12. Morteza Bastami*, Behrouz Ebrahimi, **Modification of Park-Ang Damage Index to Accommodate Effect of Aftershocks on RC Structures**, Journal of Seismology and Earthquake Engineering, Volume 21, Issue 4, 2019.
13. Hadi Sabermahany, Morteza Bastami*, **Refinement to the Existing Analytical Methods of Analysis of Buried Pipelines due to Strike-Slip Faulting**, Civil Engineering Infrastructures Journal, Volume 52, Issue 2, 2019.
14. Morteza Bastamia*, Roohollah Ahmady Jazany, Alireza Mohamadi, **Study of the Seismic Performance of Centrally Fused Braced Frame (CFBF), Thin-Walled Structures**, 2019.

15. Alireza Garekaninejad, Morteza Bastami*, **Intra-event Spatial Correlation Model for the Vertical Component of Response Spectral Accelerations**, Journal of seismology, 2019.
16. Alireza Garekaninejad, Morteza Bastami*, **An Evolutionary Approach for Structural Reliability**, Structural Engineering and Mechanics, *An International Journal*, 2019.
17. Morteza Bastami*, Roohollah Ahmady Jazany, **Development of Eccentrically Interconnected Braced Frame (EIC-BF) for Seismic Regions**, Thin-Walled Structures 131 (2018) 451–463.
18. Mostafa Shahriari and Morteza Bastami, **Providing a Model for Stability of Communities in Earthquake**, Bulletin of Earthquake Science and Seismology, Vol. 5, No. 2, 2018 (In Persian).
19. Alireza Garekaninejad, Morteza Bastami*, **A Novel Spatial Correlation Model Based on Anisotropy of Earthquake Ground-Motion Intensity**, Bulletin of the Seismological Society of America(BSSA), 2017.
20. Alireza Garekaninejad, Morteza Bastami*, Mohamad Reza Soghrat, **Spatial Correlation for Horizontal and Vertical Components of Acceleration from Northern Iran Seismic Events**, Journal of seismology, 2017.
21. Morteza Bastami*, Mohamad Reza Soghrat, **Velocity Spectrum for the Iranian Plateau**, Journal of seismology, 2017.
22. M. Ghassemieh^{1*}, , M. Hasani sokhtesaraei, , M. Bastami, **Suitable Remote Range Strong Motion Accelerograms in Three Dimensional Non-Linear Analysis for Tehran, Iran**, Modares Civil Engineering Journal (M.C.E.J) Vol.17, No.4, 2017(In Persian)..
23. Morteza Bastami*, Mohamad Reza Soghrat, **An Empirical Method to Estimate Fatalities Caused by Earthquakes: the case of the Ahar–Varzaghan earthquakes (Iran)**, Natural Hazards, 1-25, 2016.
24. Amir Hossein Pariz, Hossein Jahankhah, and Morteza Bastami, **A Study on the Effect of Seismic Wave Incident Angle on Lining Strains Imposed to Underground Rectangular 2D Structures**, Vol.3, No. 3, 2016(In Persian).
25. Naghme Pakdellahiji, Morteza Bastami, Mehdi Sadeghi, **Seismic Vulnerability Assessment and Risk Modeling of Telecommunication Systems**, International Journal of Critical Infrastructures, Vol. 12, No. 4, 2016.
26. Hossein Jahankhah , Amir Hossein Pariz , and Morteza Bastami, **An Investigation on Seismically Induced Local Distortions to Underground Rectangular 2D Cavities: the Case of Shear Wave Field of Motion with Different Incident Angles**, Vol.3, No. 1, 2016(In Persian).
27. Farhad Aslani and Morteza Bastami, **Relationship between Deflection and Crack Mouth Opening Displacement of Self-Compacting Concrete Beams with and without Fibers**, Mechanics of Advanced Materials and Structures,

28. Seyed Amin Mousavia, Morteza Bastami, Seyed Mehdi Zahrai, **Large-Scale Seismic Isolation (LSSI) through Regulated Liquefaction, A Feasibility Study**, Earthquake Engineering and Engineering Vibration, 2015.
29. Moreteza Bastami* and Amir Malekshahi, **Seismic Empirical Fragility Curves of Bridges Considering Composite Inherent Randomness**, Bulletin of Earthquake Science and Seismology, Vol. 1, No. 1, 2015 (In Persian).
30. S. H. Hoseini, M. Bastami*, **Development of a Procedure for Evaluation of Seismic Forces on Buildings with Isolation System in Iran based on Japanese Codes**, Sharif University Journal-Transaction of Civil Engineering, 2015 (In Persian).
31. M. Bastami*, M. Baghbadrani, F. Aslani, **Performance of Nano-Silica Modified High Strength Concrete at Elevated Temperatures**, Construction and Building Materials, 2014.
32. M. Bastami, M. Kowsari, **Seismicity and Seismic Hazard Assessment for Greater Tehran Region using Gumbel First Asymptotic Distribution**, Structural Engineering and Mechanics, 2014.
33. M. Bastami*, M. Hajihassani, **Input Waves for Seismic Design of Power Substation Equipment for Near and Far Iranian Earthquake Records**, International Journal of Civil Engineering, Springer, 2014.
34. M. Bastami*, G. Mahdavi, S. Zarei, **Factors Affecting Demand for Earthquake Insurance**, Journal of Seismology and Earthquake Engineering, Vol. 14, No. 3, 2012.
35. Farhad Aslani and Morteza Bastami, **Constitutive Relationships for Normal- and High-Strength Concrete at Elevated Temperatures**, American Concrete Institute(ACI) Materials Journal, VOL. 108, NO. 4, pp355-364, July-August 2011.
36. A. Chaboki-Khiabani, M. Bastami, M. Baghbadrani, M. Kordi, **Optimization of the Concrete Mix Proportions Centered on Performance after Exposure to High Temperature**, Advanced Materials Research, Volumes 268 – 270, pp 372-376, 2011.
37. M. Bastami, A. Chaboki-Khiabani, M. Baghbadrani, M. Kordi, **Performance of High Strength Concretes at Elevated Temperatures**, Scientia Iranica, 2011.
38. M. Bastami*, G. Mahdavi, S. Abdi, **Earthquake Insurance Rates for Steel and Concrete Buildings in Iran**, Iranian Journal of Insurance Researches, Vol. 102, 2012.
39. G. Mahdavi, M. Bastami, S. Zarei, **Feasibility Study for Earthquake Insurance in Iran**, Iranian Journal of Insurance Researches, Vol. 101, 2011.

40. M. Bastami*, **Constitutive Model for HSC Confined by UHS and NS Transverse Reinforcements under Cyclic and Earthquake Loadings**, Journal of Seismology and Earthquake Engineering, Vol. 12, No.3, 2010.
41. M. Bastami*, and F. Aslani, M. Esmailnia Omran, **High Temperature Mechanical Properties of Concrete**, International Journal of Civil Engineering, Springer , Vol. 8, No. 4, Dec. 2010.
42. M. Bastami*, and F.Asilani, **Preloaded High-Temperature Constitutive Models and Relationships for Concrete**, Scientia Iranica, Feb. 2010.
43. Yasuko Kuwata, Shiro Takada and Morteza Bastami, **Building Damage and Human Casualties in the Bam, Iran, Earthquake**. Asian Journal of Civil Engineering, Vol.6, PP. 1-19, Jan. 2005.
44. Morteza Bastami, Shiro Takada and Yasuko Kuwata: **Real Time Methodology to Improve Post-Earthquake Resiliency of Power Supply Systems Considering Economic Importance of Customers**. Memoirs of Construction Engineering Research Institute, Japan, Vol. 48, 2006 (**Japan index system**).
45. Morteza Bastami, Shiro Takada and Yasuko Kuwata: **Economic Losses by Interruption of Power Supply Systems from Seismic Hazards by Case Study of Tehran Power Supply System**. Memoirs of Construction Engineering Research Institute, Japan, Vol. 48, 2006 (**Japan index system**).
46. Morteza Bastami, Shiro Takada and Junichi Ueno, **Fragility Function of Electric Power Substation under Combination of Functionality Element Equipment**. Memoirs of Construction Engineering Research Institute, Japan, Vol. 47, Nov. 2005 (**Japan index system**).
47. Shiro Takada, Morteza Bastami, Yasuko Kuwata, and Mohammad Bagher Javanbarg, **Performance of Electric Power System during the Bam Earthquake and its Fragility Analyses**. Memoirs of Construction Engineering Research Institute, Japan, Vol. 46, Nov. 2004 (**Japan index system**).
48. M. Bastami*, **Review of Buildings and Housing Earthquake Insurance in Japan**, Research Bulletin of Seismology and Earthquake Engineering, Vol. 13, No. 4, 2010 (In Persian).
49. M. Bastami*, **Field Investigation of Water and Sewage Pipeline in the 2008 Wenchuan China Earthquake**, Research Bulletin of Seismology and Earthquake Engineering, Vol. 15, No. 1, 2012, (In Persian).
50. M. Bastami*, **Performance of Water Storage Systems in the 2008 Wenchuan China Earthquake-A Field Study**, Research Bulletin of Seismology and Earthquake Engineering, Vol. 15, No. 1, 2012, (In Persian).

51. M. R. Manshoori, M. Bastami*, **A Review on Seismic Design Criteria for Pipelines, Emphasized on Buried Gas Pipelines**, Research Bulletin of Seismology and Earthquake Engineering, Vol. 16, No. 3, 2013, (In Persian).

* Corresponding author

Conference papers:

1. Shahin Borzoo, Morteza Bastami, Afshin Fallah, **Correlated Damage Probabilities of Bridges using Multinomial Logistics Regression Model in Seismic Risk Assessment of Transportation Networks**, 4th seminar on spatial statistics and its applications, Tehran, Iran, Nov. 2021.
2. Morteza Abbasnejadfar, Morteza Bastami, Afshin Fallah, **Significance of Anisotropic Spatial Correlation Considerations of Earth quake Intensity Measures on the Seismic Risk Assessment of Infrastructure Systems**, 4th seminar on spatial statistics and its applications, Tehran, Iran, Nov. 2021.
3. Alireza Garakaninezhad, Morteza Bastami, Saeed Amiri, **On the Spatial Correlation for Vertical Component of Response Spectral Acceleration**, 4th seminar on spatial statistics and its applications, Tehran, Iran, Nov. 2021.
4. Shahin Borzoo, Morteza Bastami, Afshin Fallah, **Risk Mitigation using the Determination of Vulnerable Nodes of Urban Lifeline Networks using Extreme Value Theory**, 10th International Conference of the International Society for the Integrated Disaster Risk Management (IDRiM2020), Kyoto, Japan, 2020.
5. Morteza Abbasnejadfar, Morteza Bastami, **A New System Resiliency Index Considering Economic Impacts**, 10th International Conference of the International Society for the Integrated Disaster Risk Management (IDRiM2020), Kyoto, Japan, 2020.
6. Shahin Borzoo, Morteza Bastami, Afshin Fallah, **Magnitude Simulation Using the Generalized Pareto Distribution**, 8th International Conference on of Seismology and Earthquake Engineering (SEE8), IIEES, Tehran, Iran, 2019.
7. Alireza Garekaninejad, Morteza Bastami, **The Effect of Spatial Correlation of Horizontal and Vertical Spectral Accelerations on Seismic Performance of a Bridge Network**, 8th International Conference on of Seismology and Earthquake Engineering (SEE8), IIEES, Tehran, Iran, 2019.
8. Morteza Abbasnejadfar, Morteza Bastami, Affshin Fallah, **Investigation of Isotropy of Intra-Event Residuals of PGV and PGD Using Directional Semivariogram**, 8th International Conference on of Seismology and Earthquake Engineering (SEE8), IIEES, Tehran, Iran, 2019.
9. Shahin Borzoo, Morteza Bastami, Affshin Fallah, **Proposed Method for Selecting Blocks of Maxima for Peak Ground Acceleration Data Based on Extreme Value Theory**, 16th European Conference on Earthquake Engineering - 16ecee, Thessaloniki, Greece, 2016.
10. Alireza Garekaninejad, Morteza Bastami, **Loss Assessment of Lifeline Networks Considering the Effect of Damage Spatial Correlation**, 16th European Conference on Earthquake Engineering - 16ecee, Thessaloniki, Greece, 2016.

11. Morteza Abbasnejadfar, Morteza Bastami, Affshin Fallah, **A New Socioeconomic Dependent Resilience Measure for Communities**, 16th European Conference on Earthquake Engineering - 16ecee, Thessaloniki, Greece, 2016.
12. Morteza Bastami and Ali Jafarifar, **Estimation of Economic Losses Due to Earthquake in Lifeline Systems**, 7th International Conference on of Seismology and Earthquake Engineering (SEE7), IIEES, Tehran, Iran, 2015.
13. Mohsen Habibollahi and Morteza Bastami, **Study of Liquefaction on Buried Pipelines During Earthquake By Case Study of The 2013 Dashti Earthquake**, 7th International Conference on of Seismology and Earthquake Engineering (SEE7), IIEES, Tehran, Iran, 2015.
14. Yadollah Davari and Morteza Bastami, **Assessment of Polyethylene Pipelines under Landslide**, 7th International Conference on of Seismology and Earthquake Engineering (SEE7), IIEES, Tehran, Iran, 2015.
15. M. Bastami and M. Hajihassani, **A Technique for More Efficient Time Integration Applied to Seismic Analysis of Power Substation Equipment**, 3rd ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Corfu, Greece, 25–28 May 2011
16. Morteza Bastami, **Effect of Nano-Silica on High Strength Concrete at Elevated Temperatures**, 4th International conference on concrete and development, BHRC, Tehran, Iran, 29 April- 1 May 2013.
17. M. Bastami, M. Hajihassani, M. Hosseini, **Proposed Input for Seismic Design of Power Substation Equipment**, 15th World Conference of Earthquake Engineerig(15WCEE), Lisbon, Portugal, 2012.
18. Morteza Bastami, Shiro Takada, **Earthquake Insurance of Urban Lifelines and Infrastructures by Case Study of Tehran Power Network**, 17th National and 3rd International Conference of Insurance& Development, 2010, Tehran, Iran
19. Morteza Bastami and Farhad Aslani, **Single Degree of Freedom Systems and Multi Degree of Freedom Systems Analysis in Dynamics of Structures Using by Back Propagation, Radial Basis Function and Generalized Regression Neural Networks**, 3rd National Congress on Urban Management and Construction Stability, Tehran university, Iran, 2010.
20. Morteza Bastami and Farhad Aslani, **Compressive Constitutive Model for Concrete at Elevated Temperatures**, The First National Conference on Engineering and Management of Infrastructures, University of Tehran, Iran, 2009.
21. Bastami, M. and Aslani, F. **Compressive Constitutive Models for Concrete at Elevated Temperatures**, The 12th International Conference on Civil, Structural and Environmental Engineering Computing, Funchal, Madeira, Portugal, 1-4 September, 2009
22. Bastami, M. and Aslani, F. **Tensile Constitutive Models for Concrete at Elevated Temperatures**. The 12th International Conference on Civil, Structural and Environmental Engineering Computing, Funchal, Madeira, Portugal, 1-4 September, 2009
23. Bastami, M. and Aslani, F. **Seismic Behavior Prediction of Shear Structures Using by Artificial Neural Networks**, The First National Conference on Engineering and Management of Infrastructures, October 2009, Tehran

24. Aslani, F. and Bastami, M. **Compressive Constitutive Models for Concrete at Elevated Temperatures**, The First National Conference on Engineering and Management of Infrastructures, October 2009, Tehran
25. Morteza Bastami, **Seismic Assessment of Medium and High Voltage Power Substation Equipment**, The 14th World Conference on Earthquake Engineering, Beijing, China, October, 2008.
26. Morteza Bastami, Hooshang Dabbagh, **A Performance-Based Seismic Mitigation Plan for Low Pressure Tanks**, 1st International Conference on Seismic Retrofitting, 20-22 October 2008, Tabriz-Iran
27. Morteza Bastami, **Seismic Performance of Rectangular Liquid Storage Tanks by Case Study of the 2007 Noto Hanto Earthquake in Japan**, 1st International Conference on Seismic Retrofitting, 20-22 October 2008, Tabriz-Iran
28. Morteza Bastami, **Application of Discrete Element Method to Assessment of Adobe Buildings by Case Study of Bam Earthquake**. First International Conference on Zagros settlements, University of Kurdistan, Sanandaj, Iran, 2008.
29. Morteza Bastami, Bahram Rezatalabi, **Guidelines for Earthquake Resistant Construction of Earthen Buildings**. Yazd University, Yazd, Iran, September 2008.
30. Morteza Bastami, **Analytical and empirical Methods to Obtain Fragility Functions of Bridges**, 3rd International Conference of Bridge Engineering, Amir-Kabir University of Technology, Tehran, Iran, 2008.
31. Morteza Bastami, Shiro Takada, **Direct and Indirect Economic Losses by Interruption of Power Supply Systems Based on Probabilistic Approach**. Fifth US-Japan- China Trilateral Symposium on Lifeline Earthquake Engineering, China, 2007.
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