Mansour Bagheri

Assistant professor
Birjand University of Technology

South Khorasan, Birjand, Iran
+98 (56) 32391-296
mnsrbagheri@gmail.com
www.linkedin.com/in/mnsrbagheri

Last updated: December 2022

Summary

Mansour Bagheri currently works at the Department of Civil Engineering, Birjand University of Technology. Mansour does research in Structural Engineering. His current research works are on Structural Reliability, Probabilistic Modeling, and Fuzzy Engineering.

Education

Ph.D. in Structural Engineering, University of Sistan and Baluchestan. 2015

Thesis title: Fuzzy structural reliability analysis using heuristics

M.Sc. in Structural Engineering, University of Sistan and Baluchestan. 2010

Thesis title: Evaluation of seismic behavior of concrete bridges using capacity spectrum method.

B.Sc. in Civil Engineering, University of Sistan and Baluchestan. 2007

Teaching

- Steel Structures
- Concrete Structures
- Loading of Structures
- Dynamics of Structures

Research Interests

- Structural Reliability
- Fuzzy Engineering
- Probabilistic Modeling
- Heuristics

Work Experience

- Assistant Professor, Department of Civil Engineering, Birjand University of Technology.

  2015-Present

- Head of the Department, Department of Civil Engineering, Birjand University of Technology.

  2019-Present

- Design and supervision of construction projects, Construction Engineering Organization, Iran.

  2011-Present

Award & Honors

- Distinguished Researcher, Birjand University of Technology. 2020

Technical & Research Experience

Reviewer for the following selected journals:

- Structural Safety
- Engineering Structures
- Engineering with Computers
- Materials & Design
- Journal of Intelligent & Fuzzy Systems

Publication

Patent:

1. Natural and environmental - friendly nano additives for raising concrete curing speed. (*International Rank: C04B 16/06*) 2017
2. Construction and industrial waste shredder with the ability to control the granulation of output materials, without Limitation on the dimensions and size of waste entering the machine. (*International Rank: A23B 7/02; A23L 19/20; A23L 5/00; A23B 7/16*) 2022

Book:

1. Applied Building details and estimation, Aylar Publisher, (*In Persian*) 2019

Selected Journal Papers:

[1] **M. Bagheri**, M. Miri, N. Shabakhty, Calculation of fuzzy structural reliability index using α-level optimization technique, Journal of Civil and Environmental Engineering, 43(473) (2014) 1-12. (*In Persian*)

[2] **M. Bagheri**, M. Miri, N. Shabakhty, Modeling of epistemic uncertainty in reliability analysis of structures using a robust genetic algorithm, Iranian Journal of Fuzzy Systems, 12(2) (2015) 23-40.

[3] **M. Bagheri**, M. Miri, N. Shabakhty, Fuzzy reliability analysis using a new alpha level set optimization approach based on particle swarm optimization, Journal of Intelligent & Fuzzy Systems, 30(1) (2016) 235-244.

[4] **M. Bagheri**, M. Miri, N. Shabakhty, Fuzzy time dependent structural reliability analysis using alpha level set optimization method based on genetic algorithm, Journal of Intelligent & Fuzzy Systems, 32(6) (2017) 4173-4182.

[5] H. Jahangir, **M. Bagheri**, S.M.J. Delavari, Estimation of concrete compressive strength by substitution of pinyon pine ash for cement, Journal of structural and construction engineering, 5(Special Issue 2) (2018) 5-19. (*In Persian*)

[6] **M. Bagheri**, B. Keshtgar, Fuzzy Structural Reliability Analysis using the Dynamic Directional Stability Transformation Method, Computational Methods in Engineering, 37(1) (2018) 133-148. (*In Persian*)

[7] B. Keshtegar, **M. Bagheri**, Fuzzy relaxed-finite step size method to enhance the instability of the fuzzy first-order reliability method using conjugate discrete map, Nonlinear Dynamics, 91(3) (2018) 1443-1459.

[8] B. Keshtegar, **M. Bagheri**, Sensitivity Analysis of Fuzzy Structural Reliability Using Adaptive Stability Transformation Method, Journal of Ferdowsi Civil Engineering, 32(1) (2019) 119-136. (*In Persian*)

[9] **M. Bagheri**, A. Chahkandi, H. Jahangir, Seismic reliability analysis of RC frames rehabilitated by glass fiber-reinforced polymers, International Journal of Civil Engineering, 17(11) (2019) 1785-1797.

[10] B. Keshtegar, **M. Bagheri**, Z.M. Yaseen, Shear strength of steel fiber-unconfined reinforced concrete beam simulation: Application of novel intelligent model, Composite Structures, (2019).

[11] **M. Bagheri**, A. Vedad, A. Abdollahi, Seismic Performance Assessment of Steel Moment Frames Under the Consideration of Stiffness and Strength Eccentricity, Asas Journal, 21(57) (2020) 16-27. (*In Persian*)

[12] **M. Bagheri**, A. Vedad, M. Akbari, Seismic Evaluation of Steel Moment Concentric Diagonal Bracing Frames Equipped with Shape Memory Alloys, Modares Civil Engineering journal, 20(6) (2020) 21-32. (*In Persian*)

[13] Lesiuk. G, **M Bagheri**, José A.F.O. Correia, Seismic hydro-dynamic analysis of pipes with internal and external fluid under nanoparticles as reinforcement phase, International Journal of Hydromechatronics, 3(3) (2020).

[14] Vedad. A, **M Bagheri**, S.H Hosseini, Development of Fragility Curves of Dual Steel Moment Frames coupled with Concrete Shear Walls with stiffness and resistance eccentricity, Concrete Research, (2020). (*In Persian*)

[15] S.-P. Zhu, B. Keshtegar, **M. Bagheri**, P. Hao, N.-T. Trung, Novel hybrid robust method for uncertain reliability analysis using finite conjugate map, Computer Methods in Applied Mechanics and Engineering, 371 (2020) 113309.

[16] **M. Bagheri**, S.A. Hosseini, B. Keshtegar, J.A. Correia, N.-T. Trung, Uncertain time-dependent reliability analysis of corroded RC structures applying three-term conjugate method, Engineering Failure Analysis, 115 (2020) 104599.

[17] **M. Bagheri**, B. Keshtegar, S.-P. Zhu, D. Meng, J. Correia, A. De Jesus, Fuzzy reliability analysis using genetic optimization algorithm combined with adaptive descent chaos control, ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 6(2) (2020) 04020022.

[18] **M. Bagheri**, A. Chahkandi, Optimal CFRP strengthening of RC frames based on reliability analysis, Modares Civil Engineering journal, 19(6) (2020) 15-29. (*In Persian*)

[19] H. Jahangir, **M. Bagheri**, Evaluation of seismic response of concrete structures reinforced by shape memory alloys, International Journal of Engineering, 33(3) (2020) 410-418.

[20] S.A. Hosseini, **M. Bagheri**, The effect of sulfuric acid on the strength and durability of concrete containing waste tire crumbs, Journal of Structural and Construction Engineering, (2021). (*In Persian*)

[21] S.A. Hosseini, **M. Bagheri**, S.M. Ramezani, Effect of different states of chloride ion penetration in concrete on the life model due to flexural failure, Concrete Research, 14(3) (2021) 37-47. (*In Persian*)

[22] **M. Bagheri**, S.A. Hosseini, B. Keshtegar, Dynamical relaxed directional method for fuzzy reliability analysis, Structures, Elsevier, 2021, pp. 169-179.

[23] B. Keshtegar, M.L. Nehdi, R. Kolahchi, N.-T. Trung, **M. Bagheri**, Novel hybrid machine leaning model for predicting shear strength of reinforced concrete shear walls, Engineering with Computers, (2021) 1-12.

[24] H. Jahangir, **M. Bagheri**, S.M.J. Delavari, Cyclic behavior assessment of steel bar hysteretic dampers using multiple nonlinear regression approach, Iranian Journal of Science and Technology, Transactions of Civil Engineering, 45(2) (2021) 1227-1251.

[25] B. Keshtegar, **M. Bagheri**, D. Meng, R. Kolahchi, N.-T. Trung, Fuzzy reliability analysis of nanocomposite ZnO beams using hybrid analytical-intelligent method, Engineering with Computers, 37(4) (2021) 2575-2590.

[26] **M. Bagheri**, S.-P. Zhu, M.E.A. Ben Seghier, B. Keshtegar, N.-T. Trung, Hybrid intelligent method for fuzzy reliability analysis of corroded X100 steel pipelines, Engineering with computers, 37(4) (2021) 2559-2573.

[27] S.A. Hosseini, **M. Bagheri**, Concrete beam life model based on shear strength under different states of chloride ion penetration, Amirkabir Journal of Civil Engineering, (2022). (*In Persian*)

[28] **M. Bagheri**, S.A. Hosseini, A. Vedad, Comparison of seismic behavior of steel moment frames equipped with linear and nonlinear viscosity dampers under near-fault earthquakes, Modares Civil Engineering journal, 22(2) (2022) 0-0. (*In Persian*)

[29] **M. Bagheri**, A. Hosseini, A. Vedad, Evaluation of seismic behavior of eccentric braced dual steel frames equipped with shape memory alloys, Amirkabir Journal of Civil Engineering, 54(2) (2022) 13-13. (*In Persian*)

[30] S.A. Hosseini, **M. Bagheri**, The effect of fly ash on the bond strength of steel reinforcement and concrete, Iranian Journal of Science and Technology, Transactions of Civil Engineering, 46(1) (2022) 285-292.

Selected Conferences:

[1] SH. Hosseini, **M. Bagheri**, A. Vedad, Evaluation of the seismic performance of irregular in plan dual steel moment frame system with concrete shear wall considering far-fault records, 3th International Conference on New Findings in Civil Engineering, Architecture and Construction Industry, Tehran, Iran, (2018). (*In Persian*)

[2] M. Pordel, **M. Bagheri**, Evaluation of the seismic behavior of reinforced concrete structures equipped with modern smart materials, 4th International Conference on Structural Engineering, Tehran, Iran, (2018). (*In Persian*)

[3] A. Abdollahi, **M. Bagheri**, A. Ghods, Evaluation of seismic vulnerability of irregular in plan steel moment frame considering Near-fault records, 3th International Conference on New Findings in Civil Engineering, Architecture and Construction Industry, Tehran, Iran, (2018). (*In Persian*)

[4] **M. Bagheri**, SMJ. Delavari, M. Ostovari, Comparison of concrete containing nano silica and carbon nano tubes, 10th National Conference on Concrete & 16th Congress on Concrete day, Tehran, Iran, (2018). (*In Persian*)

[5] **M. Bagheri**, SMJ. Delavari, M. Ostovari, Improvement of rubber-containing concrete using waste organic sulfur compounds, 10th National Conference on Concrete & 16th Congress on Concrete day, Tehran, Iran, (2018). (*In Persian*)

[6] **M. Bagheri**, A. Vedad, SH. Ghodsi, Evaluation of the seismic performance of dual steel moment frames with diagonal eccentrically bracing system equiped with shape memory alloy, 7th National

Conference on Applied Research in Civil Engineering, Architecture and Urban Management Tehran, Iran, (2020). (*In Persian*)

[7] **M. Bagheri**, A. Vedad, Evaluation of the seismic performance of steel moment frame structures equipped with nonlinear viscous dampers considering Near-fault records, 12th National Congress on Civil Engineering, Tabriz, Iran, (2020). (*In Persian*)

[8] **M. Bagheri**, A. Vedad, M. Akbari, Development of fragility curves of dual moment steel frame with diagonal concentrically bracing system equipped with shape memory alloy, 12th National Congress on Civil Engineering, Tabriz, Iran, (2020). (*In Persian*)

[9] **M. Bagheri**, A. R. Esfahroud, M. Kari, Comparison of GIS-based techniques in traffic accidents, 7th International Congress on Civil Engineering, Architecture and Urban Development, Tehran, Iran, (2021).

[10] **M. Bagheri**, A. Vedad, Evaluation of the seismic performance of dual asymmetric steel moment frame equiped with shape memory alloy, 8th National Conference on Modern Materials and Structures in Civil Engineering, Kerman, Iran, (2021). (*In Persian*)