



Mahmoud Miri Professor

Faculty : Engineering

Departments : Civil Engineering

Phone : +9854 - 31132876

Email : mmiri@eng.usb.ac.ir

Address : Dept.of Civil Engineering, Faculty of Engineering,
University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,
Iran.

Education

- ✓ B.Sc, Civil Engineering,Sistan and Baluchestan University - 1989
- ✓ MS, Hydraulic Structure,Tarbiat Modares University - 1994
- ✓ PhD, Civil Engineering - Structure,Cardiff University - 2005

Master Thesis

1. Reliability based Design Optimization of Steel Buckling Restrained Brace Frames Equipped with Smart Material

[Mahmoud Miri, Mohsen Rashki, Sadegh Etedali]
سیده وحیده هاشمی

نیمسال دوم سال تحصیلی ۹۹-۰۰

2. investigation of the effecting pozzolan on high strength concrete

[Mahmoud Miri, Mohsen Rashki]
مهسا مهاجر میرداد

نیمسال اول سال تحصیلی ۹۷-۹۸

3. investigation of the effecting pozzolan on high strength concrete

[Mahmoud Miri, Mostafa Aliahmad]
سمانه کیخا

نیمسال اول سال تحصیلی ۹۷-۹۸

Journals Papers

2023

1. Multi-objective optimal design of SC-BRB for structures subjected to different near-fault earthquake pulses

, Mahmoud Miri, Mohsen Rashki, Sadegh Etedali

Structures Volume: (36) 1021 - 1031

2. Comprehensive experimental and numerical modeling of strength parameters of eco-friendly steel fiber reinforced SCC containing coarse copper slag aggregates

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

CONSTRUCTION AND BUILDING MATERIALS Volume: (367) 130304-1 - 130304-28

2022

3. Interlayer behavior investigation of box profile shear connectors in steel-concrete-steel sandwich structures

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

Structures Volume: (45) 1031 - 1042

بررسی فروریزش تدریجی و تحلیل شکنندگی لرزه ای قاب های دارای مهاریند کمانش تاب مجهز به آلیاژ های حافظه دار شکلی

, Mahmoud Miri, Mohsen Rashki, s e

Volume: (54) 737 - 758

5. Reliability and reliability-based sensitivity analysis of self-centering buckling restrained braces using meta-models

, Mahmoud Miri, Mohsen Rashki, Sadegh Etedali

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES Volume: (33) 669 - 686

2021

6. Effect of waste glass and curing aging on fracture toughness of self-compacting mortars using ENDB specimen

Seyed roohallah Mousavi, Iman Afshoon, Mohammadali Bayatpoor, Amirhossein Davarpanah tanha qochan, M

CONSTRUCTION AND BUILDING MATERIALS Volume: (282) 122711-1 - 122711-15

7. Combining Kriging meta models with U-function and K-Means clustering for prediction of fracture energy of concrete

Iman Afshoon, Mahmoud Miri, Seyed roohallah Mousavi

Journal of Building Engineering Volume: (35) 102050-1 - 102050-16

8. Reliability-Based Design Optimization of Recycled Coarse Aggregates Used in Corrosive Environment

, Mahmoud Miri, Mohammad Reza Sohrabi

JOURNAL OF MATERIALS IN CIVIL ENGINEERING Volume: (33) 04021042-1 - 16

9. Influence of Nano-silica and Crack Width on Corrosion Parameters of Pre-cracked Reinforced Concrete Beams

, Mahmoud Miri

Periodica Polytechnica-Civil Engineering Volume: (65) 577 - 587

تعیین درصد بهینه سنگدانه های درشت بتن بازیافتی مورد استفاده در محیط های خورنده براساس مدل کریجینگ

, Mahmoud Miri, Mohammad Reza Sohrabi

Volume: (53) 863 - 878

11. Probabilistic Optimum Percentage of Recycled Aggregates Contaminated with Chloride Ion in Concrete Mix

Abdol Ghaium Dehvari, mohsen khazaei, Mohammad Reza Sohrabi, Mahmoud Miri

aut journal of civil engineering Volume: (5) 521 - 540

2020

ارزیابی احتمالاتی ارتعاش آزاد ورق مدرج تابعی با استفاده از روش حل سه بعدی.

Naser Cheragi, Mahmoud Miri, Mohsen Rashki

Volume: (39) 45 - 66

تحلیل ترموماستیک پوسته های مخروطی شکل دوار ساخته هشده با استفاده از مواد مدرج تابعی.

Mahmoud Miri, safaiian naser, Mohsen Rashki

Volume: (49.4) 117 - 129

14. Experimental Investigation on Chloride Diffusion Coefficient of Self-compacting Concrete in the Oman Sea

, Mahmoud Miri

Periodica Polytechnica-Civil Engineering Volume: (64) 647 - 657

15. Behavior of Reinforced Concrete Beams with Corroded Stirrups and Tensile Rebars

, Mahmoud Miri, h beheshtinezhad

Volume: (50.2) 61 - 70

16. Probabilistic Evaluation on the Free Vibration of Functionally Graded Material Plates Using 3D Solution and Meta-Model Methods

Naser Cheragi, Mahmoud Miri, Mohsen Rashki

Volume: (39) 45 - 66

2019

17. New neural network-based response surface method for reliability analysis of structures

Hossein Beheshti nezhad, Mahmoud Miri, Mohammad Reza Ghasemi

NEURAL COMPUTING and APPLICATIONS Volume: (31) 777 - 791

18. System-level reliability sensitivity analysis by using weighted average simulation method

Mohsen Rashki, Mehdi Azhdary Moghaddam, Mahmoud Miri

QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL Volume: (35) 1826 - 1845

19. Experimental Investigation of Corrosion Cracking in Reinforced Concrete Beams Containing Nano Wollastonite

Mahmoud Miri, Mohammad Reza Ghasemi, Hossein Beheshti nezhad

journal of rehabilitation in civil engineering Volume: (7) 272 - 301

بررسی امکان استفاده از لوماشر به عنوان جایگزین مصالح سنگی در ساخت بتن غلتکی 20.

Mahmoud Miri, Ali Vatani,

Volume: (5) 176 - 192

2018

21. New simulation-based frameworks for multi-objective reliability-based design optimization of structures

, Mahmoud Miri, Mohsen Rashki

APPLIED MATHEMATICAL MODELLING Volume: (62) 1 - 20

22. An improved binary bat flexible sampling algorithm for reliability-based design optimization of truss structures with discrete-continuous variables

, Mahmoud Miri, Mohsen Rashki

ENGINEERING COMPUTATIONS Volume: (35) 641 - 671

23. Structural reliability assessment using an enhanced adaptive Kriging method

Jafar Vahedi, Mohammad Reza Ghasemi, Mahmoud Miri

STRUCTURAL ENGINEERING AND MECHANICS Volume: (66) 677 - 691

24. An adaptive divergence-based method for structural reliability analysis via multiple Kriging models

Jafar Vahedi, Mohammad Reza Ghasemi, Mahmoud Miri

APPLIED MATHEMATICAL MODELLING Volume: (62) 542 - 561

25. Reliability-Based Economic Seismic Design

Hamzeh Yarahmadi, Mahmoud Miri, mehrelah rakhshani mehr

Volume: (18) 251 - 260

بررسی تأثیر ضخامت پوشش بتن و جنس روکش میلگرد بر میزان خوردگی آن در بتن خود متراکم.

Mehdi Azhdary Moghaddam, Mahmoud Miri,

Volume: (4) 172 - 186

بررسی تأثیر مصالح تشکیل دهنده بر عملکرد بتن غلتکی رویه راه با استفاده از روش کاهش ابعاد و شبیه سازی موئیت کارلو

Mostafa Aliahmad, Mahmoud Miri, Mohsen Rashki

Volume: (3) 49 - 64

2017

28. Reliability-based design optimization of rotating FGM cylindrical shells with temperature-dependent probabilistic frequency constraints

, Mahmoud Miri, Mohsen Rashki

AEROSPACE SCIENCE AND TECHNOLOGY Volume: (68) 223 - 239

29. Fuzzy time dependent structural reliability analysis using alpha level set optimization method based on genetic algorithm

, Mahmoud Miri,

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (32) 4173 - 4182

30. Probabilistic and Experimental investigating the effect of pozzolan and Lumachelle fine aggregates on roller compacted concrete properties

Mostafa Aliahmad, Mahmoud Miri, Mohsen Rashki

CONSTRUCTION AND BUILDING MATERIALS Volume: (151) 755 - 766

31. The effect of Cover Pressure Strength and bars corrosion on Cracking of Reinforced Concrete Structures

Mahmoud Miri, ,

Volume: (49) 251 - 261

32. New neural network-based response surface method for reliability analysis of structures

Hossein Beheshti nezhad, Mahmoud Miri, Mohammad Reza Ghasemi

NEURAL COMPUTING and APPLICATIONS Volume: () 1 - 17

بررسی عددی و آزمایشگاهی تأثیر پوشش، مقاومت فشاری و فشار ناشی از خوردگی آرماتور بر شروع ترکخوردگی در سازههای بتن آرمه

Mahmoud Miri, rakhshani mehr, Fahifdxg Hcdgfzsd

Volume: (49) 251 - 261

ارزیابی قابلیت اطمینان قارهای خمثی فلزی با استفاده از روش شبیه‌سازی وزنی و درونیاپی تابع.
34. پایه شعاعی

M. r, Mohsen Rashki, Mahmoud Miri, Mehdi Azhdary Moghaddam

Volume: (14) 21 - 32

35. New Neural Network-Based Response Surface Method for Reliability Analysis of Structures

, Mahmoud Miri, Mohammad Reza Ghasemi

NEURAL COMPUTING and APPLICATIONS Volume: (28) 1 - 17

36. The effect of bars coating type and structures location on durability and corrosion of bars in Oman sea

Mahmoud Miri, , mohammad forotan

Volume: (18) 28 - 40

طراحی بهینه مبتنی بر قابلیت اعتماد سازه‌ها براساس روش شبیه‌سازی وزنی اصلاح شده. 37.

Mahmoud Miri,

Volume: (35) 1 - 23

بررسی آزمایشگاهی پارامترهای ناشی از خوردگی در تیرهای بتونی حاوی نانوولاستونیت. 38.

Hossein Beheshti nezhad, Mahmoud Miri, Mohammad Reza Ghasemi

Volume: (10) 81 - 94

2016

ارزیابی آزمایشگاهی اثر ترکیب متاکائولین و پومیس بر دوام و خوردگی میلکرد در بتن خودتراکم. 39.

, Mahmoud Miri, ,

Volume: (9) 5 - 17

40. An Investigation on the Effect of Metakaolin and Zeolite Combination as Cement Replacement on Rebar Corrosion and Durability of Self Compacting Concrete

, Mahmoud Miri,

Volume: (46) 61 - 70

ازائه روشنی برای طراحی براساس عملکرد لرزه ای احتمالاتی. 41.

Hamzeh Yarahmadi, Mahmoud Miri,

Volume: (17) 28 - 38

42. Reliability-Based Design Optimization of Structures using Modified Weighted Simulation Method

, Mahmoud Miri,

Volume: (2) 1 - 23

43. Experimental Investigate Composite Effect of Metakaolin and Pumice on Durability and Corrosion Rebar in Self-Compacting Concrete

, Mahmoud Miri, ,

Volume: (9) 5 - 16

44. Reliability-Based Design Optimization of Structures using Modified Weighted Simulation Method

, Mahmoud Miri, Mohsen Rashki

Volume: (35) 1 - 22

45. An enhanced simulation-based design method coupled with meta-heuristic search algorithm for accurate reliability-based design optimization

Mahmoud Miri, , Naser Safaeian Hamzehkolaei

ENGINEERING WITH COMPUTERS Volume: (32) 477 - 495

46. PERFORMANCE INVESTIGATION OF NEURO-FUZZY SYSTEM

, Mohammad Givehchi, Mahmoud Miri,

Asian Journal of Civil Engineering (Building and Housing Volume: (17) 213 - 223

47. Fuzzy reliability analysis using a new alpha level

, Mahmoud Miri, Naser Shabakhty

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (30) 235 - 244

48. An enhanced simulationbased design method coupled with metaheuristic search algorithm for accurate reliabilitybased design optimization

, Mahmoud Miri, Mohsen Rashki

ENGINEERING WITH COMPUTERS Volume: (32) 477 - 495

49. A methodology to determine the response modification factor for probabilistic performance-based design

Hamzeh Yarahmadi, Mahmoud Miri,

Bulletin of Earthquake Engineering Volume: (14) 1 - 31

50. Performance investigation of neuro-fuzzy system for earthquake prediction

, Mohammad Givehchi, Mahmoud Miri,

Asian Journal of Civil Engineering (Building and Housing Volume: (17) 213 - 223

51. Fuzzy reliability analysis using a new alpha level set optimization approach based on particle swarm optimization

, Mahmoud Miri, Naser Shabakhty

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (30) 235 - 244

2015

52. A method to rank and measure the importance of random variables of random variables on failure probability of structures

Mohsen Rashki, Mahmoud Miri, Mehdi Azhdary Moghaddam

Volume: (33) 19 - 36

53. MODELING OF EPISTEMIC UNCERTAINTY IN RELIABILITY ANALYSIS OF STRUCTURES USING A ROBUST GENETIC ALGORITHM

, Mahmoud Miri, Naser Shabakhty

Iranian Journal of Fuzzy Systems Volume: (12) 23 - 40

54. An enhanced simulation-based design method coupled with meta-heuristic searchalgorithm for accurate reliability based design optimization

, Mahmoud Miri, Mohsen Rashki

ENGINEERING WITH COMPUTERS Volume: () 1 - 10

55. MODELING OF EPISTEMIC UNCERTAINTY IN RELIABILITY ANALYSIS OF STRUCTURES USING A ROBUST GENETIC ALGORITHM

, Mahmoud Miri, Naser Shabakhty

Iranian Journal of Fuzzy Systems Volume: (12) 23 - 40

2014

56. Effect of Rebar Corrosion on the Behavior of a Reinforced Concrete Ceam Using Modeling and Experimental Results

Mohammad Reza Sohrabi, Mahmoud Miri

Materiali in Tehnologije Volume: (48) 395 - 402

57. Introducing Conjugate gradient optimization for modified HL-RF method 31/1/2013

, Mahmoud Miri

ENGINEERING COMPUTATIONS Volume: (31) 775 - 790

58. A simulation-based method for reliability based design optimization problems with highly nonlinear constraints

Mahmoud Miri, Mehdi Azhdary Moghaddam

AUTOMATION IN CONSTRUCTION Volume: (47) 24 - 36

59. Reliability analysis of corroded pipes using conjugate HL-RF algorithm based on average shear stress yield criterion

Mahmoud Miri

engineering failure analysis Volume: (46) 104 - 117

ارائه روش جدیدی برای ارزیابی قابلیت اعتماد سازه ها 60.

, Mahmoud Miri

Journal of Modeling Engineering Volume: (12) 29 - 42

ارزیابی آزمایشگاهی استفاده از ترکیب پومیس و زئولیت بر خوردگی میلگرد و دوام بتن خودتراکم 61.

Mahmoud Miri,

Volume: () 21 - 32

بررسی آزمایشگاهی خواص مکانیکی بتن حاوی نانو ولاستونیت و مدل سازی آن به کمک شبکه GMDH 62.

Mahmoud Miri, ,

Volume: () 143 - 156

ارائه روشهای جدید برای ارزیابی قابلیت اعتماد سازه ها 63.

, Mahmoud Miri

Volume: () 29 - 42

ارائه روشهای جهت رتبه بندی اهمیت و تاثیر متغیرهای تصادفی بر احتمال خرابی سازه ها 64.

, Mahmoud Miri, Mehdi Azhdary Moghaddam

Volume: (33) 29 - 46

65. closure to A new efficient simulation method to approximate the probability of failure and most probable point

, Mahmoud Miri, Mehdi Azhdary Moghaddam

STRUCTURAL SAFETY Volume: (16) 15 - 16

محاسبه شاخص قابلیت اعتماد فازی سازه ها با استفاده از تکنیک بهینه سازی آلفا برشها 66.

Mahmoud Miri, Naser Shabakhty

Volume: (43) 1 - 12

67. Introducing conjugate gradient optimization for modified HL-RF method

, Mahmoud Miri

ENGINEERING COMPUTATIONS Volume: () 775 - 786

68. Reliability analysis of corroded pipes using conjugate HL-RF algorithm based on average shear stress yield criterion

, Mahmoud Miri

ENGINEERING FAILURE ANALYSIS Volume: () 104 - 117

69. EFFECT OF REBAR CORROSION ON THE BEHAVIOR OF A REINFORCED CONCRETE BEAM USING MODELING AND EXPERIMENTAL RESULTS

, Mohammad Reza Sohrabi, Mahmoud Miri

Materiali in Tehnologije Volume: () 395 - 402

2013

اثر شرایط محیطی بر نفوذ و دوام یون کلر در بتن معمولی و خود متراکم 70.

Mahmoud Miri

Volume: (8) 17 - 27

ارائه الگوریتمی اصلاحی برای روش‌های گرادیان مزدوج غیر خطی به منظور محاسبه شاخص سلامتی سازه ها 71.

Mahmoud Miri, Naser Shabakhty

Journal of Civil Engineering Volume: (24) 27 - 40

72. An Enhanced HL-RF Method for the Computation of Structural Failure Probability Based On Relaxed Approach

, Mahmoud Miri

Civil Engineering Infrastructures Journal Volume: (46) 69 - 80

اثر شرایط محیطی بر نفوذ و دوام یون کلر در بتن معمولی و خود متراکم حاوی نانو سیلیس 73.

Mahmoud Miri, ,

Volume: () 17 - 27

ارائه الگوریتمی اصلاحی برای روش‌های گرادیان مزدوج غیر خطی به منظور محاسبه شاخص سلامتی سازه 74.

, Mahmoud Miri, Naser Shabakhty

Volume: () 27 - 40

75. Enhancing weighted uniform simulation for structural reliability analysis Int. Jour. Of Opt. in civil eng

Hamed Ghohani Arab, Mohammad Reza Ghasemi, Mahmoud Miri

International Journal of Optimization in Civil Engineering Volume: (3) 635 - 651

76. Closure to "A new efficient simulation method to approximate the probability of failure and most probable point

Mohsen Rashki, Mahmoud Miri, Mehdi Azhdary Moghaddam

STRUCTURAL SAFETY Volume: () 15 - 16

2012

77. Studying the possibility of using galvanostatic pulse transient technique in concrete beam bars corrosion

, Mohammad Reza Sohrabi, Mahmoud Miri

Volume: (2) 63 - 73

بررسی امکان استفاده از تکنیک پالس گذاری گالوانو استانیک در خوردگی میلگردهای تیر بتتی.

Mohammad Reza Sohrabi, , Mahmoud Miri

Volume: (5) 63 - 73

79. 2800 آین نامه توسط شده پیشنهاد اتصال در اتصال چشمeh

, Mahmoud Miri, A. Hadad, F Ghafari

Volume: (32) 71 - 78

80. A new efficient simulation method to approximate the probability of failure and most probable point

, Mahmoud Miri, Mehdi Azhdary Moghaddam

STRUCTURAL SAFETY Volume: (39) 22 - 29

2011

ارائه فرمولاسیون مناسب بهینه سازی گرادیان مزدوج غیر خطی به منظور محاسبه شاخص سلامتی سازه ها

, Mahmoud Miri

Volume: (41) 63 - 70

بررسی پارامتری رفتار غیر خطی لرزه ای پل کابلی ایستای دهانه بزرگ با عرضه جعبه ای

, Mahmoud Miri

Volume: (7) 15 - 27

بررسی حساسیت روش های عددی حل معادله حرکت سیستم یک درجه آزادی تحت بار سینوسی

Mahmoud Miri

Volume: (29) 53 - 60

بررسی حساسیت روش های عددی حل معادله حرکت سیستم یک درجه آزادی تحت بار سینوسی

, Mahmoud Miri

Volume: () 53 - 90

بررسی پارامتری رفتار غیر خطی لرزه ای پل کابلی ایستای دهانه بزرگ با عرضه جعبه های

, Mahmoud Miri

Volume: () 15 - 27

Research Project

2009

1. The effect of environmental condition on concrete durability of water reservoir

Mahmoud Miri - 2009

1999

2. The study of positonal damage of birdge due to flooding

Mahmoud Miri, Mohammad Hassan Mirabimoghaddam - 1999