



Hamed Ghohani Arab Associate Professor

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,
Iran.

Education

- ✓ B.Sc, Civil Engineering,Sistan and Baluchestan University - 2004
- ✓ MS, Civil Engineering - Structure,Sistan and Baluchestan University - 2006
- ✓ PhD, Civil Engineering - Structure,Sistan and Baluchestan University - 2014
- ✓ PhD, Civil Engineering - Structure,Sistan and Baluchestan University - 2014

Courses

- | | |
|-----------------------------------|---|
| 1. Mechanics of materials II | 2. Civil Engineering Soft wares |
| 3. Stability of Structures | 4. nonlinear analysis of structure |
| 5. Concrete Structures | 6. Mechanics of materials I |
| 7. Design of Steel Structures I | 8. Building Construction Methods |
| 9. Nonlinear methods | 10. STATICS |
| 11. Strength of MATERIALS | 12. Steel Structures |
| 13. Bridge Eng | 14. Structural Analysis I |
| 15. Design of Steel Structures II | 16. Dynamics |
| 17. Advanced Steel Structures | 18. Reinforced concrete Building design |

Master Thesis

1. Optimization of steel rack pipe structures using meta-heuristic algorithms

روح الامين چترآذر, [Mahmoud Miri, Hamed Ghohani Arab, Arash Naderi, Mohammad Reza Ghasemi, Vajihe Yousefi]

نیمسال اول سال تحصیلی 1402-1403

2. Feasibility of producing light weight geopolymer concrete with native materials of the province

رامتین محروم شهرکی, [Hamed Ghohani Arab, Mahmoud Miri, Arash Naderi, Mohammad Reza Ghasemi, Mohammad Reza Sohrabi, Hamid Moghadam Deymeh]

نیمسال اول سال تحصیلی 1402-1403

3. Evaluating EPS Lighting Concrete Mixing Using Statistical Methods for Enhanced Performance

کوروش شهرکی, [Hamed Ghohani Arab, Arash Naderi, Mahmoud Miri, Mohammad Reza Sohrabi, Hamed Khosravi]

نیمسال اول سال تحصیلی 1402-1403

4. Investigation of mechanical properties of geopolymer concrete lightened with expanded polystyrene (EPS)

محمدرضا هاشمی, [Hamed Ghohani Arab, Arash Naderi, Mahmoud Miri, Mohammad Reza Ghasemi, Tahereh Fanaei Sheikholeslami]

نیمسال اول سال تحصیلی 1402-1403

5. Estimation strength of steel-concrete-steel sandwich beams with strip cutters (csc) using artificial intelligence

محمدجواد کاظمی, [Hamed Ghohani Arab, Seyd hashem Khatibi, Seyed roohallah Mousavi, Mahmoud Miri, Marzieh Hosseini Nasab]

نیمسال اول سال تحصیلی 1401-1402

6. Investigation of Novel box shape shear connector of steel-concrete-steel sandwich beam

سیدهاشم خطیبی اغوثی, [Hamed Ghohani Arab, Mahmoud Miri]

نیمسال اول سال تحصیلی 01-00

7. Two-stage damage detection utilizing suspected elements identification indexes and optimization tools

نادر حاجی آفاجان پور, [Mohammad Reza Ghasemi, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mahmoud Miri, Hamed Khosravi]

نیمسال اول سال تحصیلی 00-99

8. optimization of laminated composites using stochastic algorithms

حسین سنگتراش, [Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi]

نیمسال اول سال تحصیلی 98-97

9. An experimental investigation on the effect of workability on the concrete shear strength

مسعود حسین پور فرد, [Hamed Ghohani Arab, Mohsen Rashki]

نیمسال اول سال تحصیلی 98-97

10. Optimization of Intermediate Reinforced Concrete Moment Frames

آمنه بلیده, [Mohammad Reza Ghasemi, Hamed Ghohani Arab]

نیمسال دوم سال تحصیلی 97-96

11. an experimental investigation on shear-transfer strength with intended interfaces of concrete

علي جوادزاده, [Hamed Ghohani Arab, Mohsen Rashki]

نیمسال اول سال تحصیلی 95-96

12. Realibility Assessment of structures using spectral stochastic finite element method

عباس یزدانی, [Hamed Ghohani Arab, Mohsen Rashki]

نیمسال اول سال تحصیلی 95-96

13. crack propagation analysis in reinforcement concrete resulted from corrosion using eXtended finite element method

احمد جامی سدهی, [Hamed Ghohani Arab]

نیمسال دوم سال تحصیلی 95-94

14. An Improvement in Steel Moment Frame Optimization Algorithms with Special Attitude on Design Constraints

علي محلاتي رايني, [Mohammad Reza Ghasemi, Hamed Ghohani Arab]

نیمسال دوم سال تحصیلی 95-94

15. a new vision on topology optimization with smart classified on steel moment frame

علي قايمي, [Mohammad Reza Ghasemi, Hamed Ghohani Arab]

نیمسال دوم سال تحصیلی 95-94

16. simulatio-based realibility analysis using Kriging method

کامران شریفی نیک, [Hamed Ghohani Arab, Mohsen Rashki]

نیمسال اول سال تحصیلی 95-94

17. assxd

علي فضل عزيزي ناصرآباد, [Mohammad Reza Ghasemi, Naser Shabakhty, Hamed Ghohani Arab]

نیمسال دوم سال تحصیلی 93-94

18. improved intelligence meta-heuristic method in structural optimization on sensivity analysis of the search space

عطيہ خواجہ, [Mohammad Reza Ghasemi, Hamed Ghohani Arab]

نیمسال اول سال تحصیلی 93-94

Journals Papers

2026

1. Toughness and energy based tensile-shear cracking resistance of green concrete developed using zeolite and waste rubber particles

Reza Sagheb, Mahmoud Miri, Hamed Ghohani Arab, Iman Afshoon

THEORETICAL AND APPLIED FRACTURE MECHANICS Volume: (141) 1 - 13

2. Cracking resistance and microstructure of green concretes made of waste crumb rubber and zeolite under full tensile-tearing fracture using ENDB specimen

Reza Sagheb, Mahmoud Miri, Hamed Ghohani Arab, Iman Afshoon

THEORETICAL AND APPLIED FRACTURE MECHANICS Volume: (141) 1 - 14

2025

3. Overlap effects of one-end welded box-profile shear connectors on interlayer shear behavior

Mahdi Daliri, Hamed Ghohani Arab, Mahmoud Miri, Seyed Hashem Khatibi

Structures Volume: (71) 107982-1 - 107982-12

4. Masterpiece Optimization Algorithm: A new method for solving engineering problems Articles in Press

Mohammad Reza Ghasemi, Nader Haji Aghajanzpour, Hamed Ghohani Arab

Journal of Soft Computing in Civil Engineering Volume: (9) 1 - 21

5. Novel adaptive cross-entropy method for cost-effective design of steel moment frames

Arash Naderi, Ali Mahalati, Hamed Ghohani Arab

STEEL AND COMPOSITE STRUCTURES Volume: (55) 241 - 251

6. کاربرد الگوریتم فراابتکاری نهنگ در ارتقای طراحی پاپیرک های فولادی مورد استفاده در پالایشگاه ها

Rouholamin Chatrazar, Hamed Ghohani Arab, Mahmoud Miri

Volume: (11) 65 - 77

7. Optimization of Resistance Upset Butt Welding Parameters of Steel Rebars: A Study on Mechanical Properties and Microstructure

, Hamed Ghohani Arab, Mahmood Sharifitabar

Volume: (36) 73 - 92

8. Prediction of the shear strength of SCS panel with Box Profile shear connectors using numerical modeling and GEP algorithm

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

AUT Journal of Civil Engineering Volume: (9) 111 - 127

9. Prediction of Shear Strength in SCS Panels with One-End Welded BP Shear Connector Using Numerical Modeling and Gene Expression Programming (GEP)

Mahdi Daliri, Hamed Ghohani Arab, Mahmoud Miri, Seyed Hashem Khatibi

AUT Journal of Civil Engineering Volume: (9) 185 - 204

2024

10. Linear Constrained Optimization Method (LiCOM): A Novel Paradigm to Handle Engineering Optimization Problems

Mohammad Reza Ghasemi, Nader Haji Aghajanpour, Hamed Ghohani Arab

Iranian Journal of Science and Technology-Transactions of Civil Engineering Volume: (48) 453 - 465

11. optimisation of Steel Pipe-Rack Structures in the Oil Industry Using Metaheuristic Algorithms

Rouholamin Chatrazar, Hamed Ghohani Arab, Mahmoud Miri

Journal of Gas Technology Volume: (9) 54 - 70

2023

12. The behavior of steel-concrete-steel sandwich composite beams with box-profile shear connectors: Experimental and numerical

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

Structures Volume: (54) 644 - 656

13. Prediction of the interlayer shear strength of SCS panels with corrugated-strip shear connectors using gene expression programming algorithm

Seyd hashem Khatibi, Hamed Ghohani Arab, Mahmoud Miri

Volume: (16) 85 - 97

2022

14. 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

2021

15. A high-performance four-node fat shell element with drilling degrees of freedom

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi

ENGINEERING WITH COMPUTERS Volume: (37) 2837 - 2852

16. Damage Detection of Single Tapered Poles Using APSO Algorithm

Hamed Ghohani Arab, Ali Mahalati, Arash Naderi, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi
Amirkabir Journal of Civil Engineering Volume: (53) 5 - 5

17. پرش دایره ها: روشی نوین برای حل مسائل بهینه سازی مهندسی

Nader Haji Aghajanpour, Mohammad Reza Ghasemi, Hamed Ghohani Arab
Amirkabir Journal of Civil Engineering Volume: (53) 13-1 - 13-20

18. An Effective Improved Multi-objective Evolutionary Algorithm (IMOEA) for Solving Constraint Civil Engineering Optimization Problems

Ali Mahalati, Hamed Ghohani Arab, Mohammad Reza Ghasemi
Teknik Dergi Volume: (32) 10645 - 10673

19. HYBRID ARTIFICIAL PHYSICS OPTIMIZATION AND BIG BANG-BIG CRUNCH ALGORITHM (HPBA) FOR SIZE OPTIMIZATION OF TRUSS STRUCTURES

Hosein Sangtarash, Mohammad Reza Ghasemi, Hamed Ghohani Arab, Mohammad Reza Sohrabi
International Journal of Optimization in Civil Engineering Volume: (11) 55 - 73

2020

20. Reliability Mesh Convergence Analysis by Introducing Expanded Control Variates

, Mohsen Rashki, Hamed Ghohani Arab, Mehdi Azhdary Moghaddam
Frontiers of Structural and Civil Engineering Volume: (14) 1012 - 1023

21. An efficient three-node triangular Mindlin-Reissner flat shell element

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi
Journal of the Brazilian Society of Mechanical Sciences and Engineering Volume: (42) 1 - 17

22. تحلیل اجزای محدود لایه ای ورق های کامپوزیت با استفاده از المان غشایی نامتقارن و المان خمشی ناسازگار

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi
Volume: (10) 141 - 152

23. Formulation and evaluation of a new four-node quadrilateral element for analysis of the shell structures

Hosein Sangtarash, Hamed Ghohani Arab, Mohammad Reza Sohrabi, Mohammad Reza Ghasemi
ENGINEERING WITH COMPUTERS Volume: (36) 1289 - 1303

24. تخمین مقاومت برشی بتن با استفاده از الگوریتم برنامه ریزی بیان ژنی

Hamed Ghohani Arab, Masoud Hossein poor fard, Mohsen Rashki
Volume: (13) 51 - 62

25. Simplified Spectral Stochastic Finite Element Formulations for Uncertainty Quantification of Engineering Structures

Abbas Yazdani, Hamed Ghohani Arab, Mohsen Rashki

Structures Volume: (28) 1924 - 1945

2019

26. Refined first-order reliability method using cross-entropy optimization method

Hamed Ghohani Arab, Mohsen Rashki, Mehdi Rostamian, , Hossein Shahraki, Behrooz Keshtegar

ENGINEERING WITH COMPUTERS Volume: (35) 1507 - 1519

27. OPTIMAL DESIGN OF COLUMNS FOR AN INTERMEDIATE MOMENT FRAME UNDER UNIAXIAL MOMENT AND AXIAL LOADS

Ameneh Boleydeh, Hamed Ghohani Arab, Mohammad Reza Ghasemi

International Journal of Optimization in Civil Engineering Volume: (4) 689 - 708

28. Design of a Novel Prefabricated Bolted I-Beam to Box-Column Connection Using Numerical Analysis Under Cyclic Load

, Mohammad Reza Ghasemi, Naser Shabakhty, Hamed Ghohani Arab

International Journal of Steel Structures Volume: (19) 1431 - 1445

29. A fast and robust procedure for optimal detail design of continuous RC beams

Ameneh Boleydeh, Hamed Ghohani Arab, Mohammad Reza Ghasemi

Computers and Concrete Volume: (24) 313 - 327

2018

30. Low-cost finite element method-based reliability analysis using adjusted control variate technique

Mohsen Rashki, , Hamed Ghohani Arab, Seyed roohallah Mousavi

STRUCTURAL SAFETY Volume: (75) 133 - 142

31. Subset Modeling Basis ANFIS for Prediction of the Reference Evapotranspiration

behrooz keshteh gar, Ozgur Kis, Hamed Ghohani Arab,

WATER RESOURCES MANAGEMENT Volume: (32) 1101 - 1116

32. OPTIMIZATION OF STEEL MOMENT FRAME BY A PROPOSED EVOLUTIONARY ALGORITHM

, Hamed Ghohani Arab, Mohammad Reza Ghasemi

International Journal of Optimization in Civil Engineering Volume: (8) 511 - 524

33. Evaluation of Three Support Shapes on Behavior of New Bolted Connection BBCC in Modularized Prefabricated Steel Structures

, Mohammad Reza Ghasemi, Naser Shabakhty, Hamed Ghohani Arab

International Journal of Steel Structures Volume: (18) 1639 - 1653

34. روش پیشنهادی نوین و کم هزینه در محاسبه احتمال خرابی مسائل مبتنی بر روش مونت کارلو

Hamed Ghohani Arab, Mohammad Reza Ghasemi

Volume: (16) 14 - 14

2017

35. HYBRID PARTICLE SWARM OPTIMIZATION, GRID SEARCH METHOD AND UNIVARIATE METHOD TO OPTIMALLY DESIGN STEEL FRAME STRUCTURES

, Mohammad Reza Ghasemi, Hamed Ghohani Arab

International Journal of Optimization in Civil Engineering Volume: (2) 173 - 191

2014

36. A fast and robust method for estimating the failure probability of structures

Hamed Ghohani Arab, Mohammad Reza Ghasemi

proceedings of the institution of civil engineers-structures and buildings Volume: (167) 1 - 12

2013

37. 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

2016

3. Intelligent improved particle swarm algorithm using pseudo-random distribution of particles

Third international conference on applied research in computer and IT

Mohammad Reza Ghasemi, Hamed Ghohani Arab,

4. Effect of designing variables on reliability of bridges constructed with compound boxlike plate beam

3rd International Conference on Bridge

, Naser Shabakhty, Hamed Ghohani Arab

2007

5. Investigation of Stirrups Role on Increasing of Load Bearing and Ductility of Reinforced Concrete Columns

4th International Specialty Conference on THE CONCEPTUAL APPROACH TO STRUCTURAL DESIGN

Executive activities

مدیر امور پژوهشی

from 1403/07/01 - now

مدیر پژوهشی دانشگاه

from 1401/09/05 - to 1403/06/31

معاون پژوهشی دانشکده مهندسی

from 1399/11/01 - to 1401/09/04