

Curriculum Vitae

1. **Name Surname:** Iman Faridmehr
2. **Date of Birth:**
3. **Title:** Dr.
4. **Education:**

Degree	Field	University	Year
Bachelor	Civil Engineering	Islamic Azad University, Iran	2006
Master	Civil structural Engineering	Islamic Azad University, Iran	2009
Doctorate	Civil Engineering	Universiti Teknologi Malaysia, Malaysia	2015

5. Academic Titles

6. Graduate Theses Supervised

Title	Department	University	Year/Period
Assistant Professor	Civil Engineering	Girne American University	2018 to present
Associate Professor			
Professor			

6.1 Master Theses

Seismic Retrofitting of Steel Structures with Eccentric Braced System according to the Building Seismic Rehabilitation Prestandard

6.2 Doctorate Theses

Seismic and Progressive Collapse Assessment of New Proposed Steel Connection

7. Publications

7.1. Articles published in peer reviewed international journals (SCI, SSCI Arts and Humanities)

Enhancing Strength and Corrosion Resistance of Steel-Reinforced Concrete: Performance

Evaluation of ICRETE Mineral Additive in Sustainable Concrete Mixes with PFA and GGBS

Published in Infrastructures

DOI: 10.3390/INFRASTRUCTURES9120228

Development sustainable concrete with high-volume wastes tile ceramic: Role of silica nanoparticles amalgamation

Published in Case Studies in Construction Materials

DOI: 10.1016/J.CSCM.2024.E03733

Effective microorganism solution-imbued sustainable self-curing concrete: Evaluation of sorptivity, drying shrinkage and expansion

Published in Case Studies in Construction Materials

DOI: 10.1016/J.CSCM.2024.E03255

Hybrid Intelligence Framework for Optimizing Shear Capacity of Lightweight FRP-Reinforced

Concrete Beams

Published in International Journal of Lightweight Materials and Manufacture

DOI: 10.1016/J.IJLMM.2024.07.003

An innovative multi-objective optimization approach for compact concrete-filled steel tubular

(CFST) column design utilizing lightweight high-strength concrete

Published in International Journal of Lightweight Materials and Manufacture

DOI: 10.1016/J.IJLMM.2024.01.004

Advanced method for estimating the volumetric intensity along tunnels using ANN

Published in International Journal of Geotechnical Engineering

DOI: 10.1080/19386362.2024.2377450

Performance of partially grouted reinforced masonry walls with bed-joint reinforcement: parametric and optimization investigation

Published in Archives of Civil and Mechanical Engineering

DOI: 10.1007/S43452-023-00810-8

Investigating the fresh and mechanical properties of wood sawdust-modified lightweight geopolymer concrete

Published in Advances in Structural Engineering

DOI: 10.1177/13694332231161103

Optimization of Fly Ash-Slag One-Part Geopolymers with Improved Properties

Published in Materials

DOI: 10.3390/MA16062348

Mountaineering Team-Based Optimization: A Novel Human-Based Metaheuristic Algorithm

Published in Mathematics

DOI: 10.3390/MATH11051273
Predicting Crack Width in CFRP-Strengthened RC One-Way Slabs Using Hybrid Grey Wolf
Optimizer Neural Network Model
Published in Buildings
DOI: 10.3390/BUILDINGS12111870
Structure, morphology and compressive strength of Alkali-activated mortars containing
waste
bottle glass nanoparticles
Published in Construction and Building Materials
DOI: 10.1016/J.CONBUILDMAT.2022.128005
Novel hybrid informational model for predicting the creep and shrinkage deflection of
reinforced
concrete beams containing GGBFS
Published in Neural Computing and Applications
DOI: 10.1007/S00521-022-07150-3
Systematic Experimental Assessment of POFA Concrete Incorporating Waste Tire
Rubber
Aggregate
Published in Polymers
DOI: 10.3390/POLYM14112294
Predicting axial load capacity of CFST columns using machine learning
Published in Structural Concrete
DOI: 10.1002/SUCO.202100641
Seismic Analysis of Baffle-Reinforced Elevated Storage Tank Using Finite Element
Method
Published in Buildings
DOI: 10.3390/BUILDINGS12050549
Flexural Behavior of Reinforced Concrete Beams under Instantaneous Loading: Effects
of
Recycled Ceramic as Cement and Aggregates Replacement
Published in Buildings
DOI: 10.3390/BUILDINGS12040439
Novel informational bat-ANN model for predicting punching shear of RC flat slabs
without shear
reinforcement
Published in Engineering Structures
DOI: 10.1016/J.ENGSTRUCT.2022.114030
Smart Bio-Agents-Activated Sustainable Self-Healing Cementitious Materials: An All-
Inclusive
Overview on Progress, Benefits and Challenges
Published in Sustainability
DOI: 10.3390/SU14041980

A Review on the Use of Self-Curing Agents and Its Mechanism in High-Performance
Cementitious
Materials

Published in Buildings

DOI: 10.3390/BUILDINGS12020152

MECHANICAL PROPERTIES PREDICTION OF HEAVYWEIGHT CONCRETE USING
GENERALIZED

REGRESSION NEURAL NETWORK (GRNN)

Published in Revista Romana de Materiale/ Romanian Journal of Materials

Gum Arabic Nanoparticles as Green Corrosion Inhibitor for Reinforced Concrete

Exposed to

Carbon Dioxide Environment

Published in Materials

DOI: 10.3390/MA14247867

Predicting Embodied Carbon and Cost Effectiveness of Post-Tensioned Slabs Using
Novel Hybrid

Firefly ANN

Published in Sustainability

DOI: 10.3390/SU132112319

Metaheuristic Prediction of the Compressive Strength of Environmentally Friendly
Concrete

Modified with Eggshell Powder Using the Hybrid ANN-SFL Optimization Algorithm

Published in Materials

DOI: 10.3390/MA14206172

Evaluating mechanical properties and impact resistance of modified concrete containing
ground

Blast Furnace slag and discarded rubber tire crumbs

Published in Construction and Building Materials

DOI: 10.1016/J.CONBUILDMAT.2021.123603

Experimental and Informational Modeling Study of Sustainable Self-Compacting
Geopolymer

Concrete

Published in Sustainability

DOI: 10.3390/SU13137444

Hybrid Krill Herd-ANN Model for Prediction Strength and Stiffness of Bolted Connections

Published in Buildings

DOI: 10.3390/BUILDINGS11060229

Life-Cycle Assessment of Alkali-Activated Materials Incorporating Industrial Byproducts

Published in Materials

DOI: 10.3390/MA14092401

Performance Evaluation of Modified Rubberized Concrete Exposed to Aggressive
Environments

Published in Materials

DOI: 10.3390/MA14081900

Performance of Epoxy Resin Polymer as Self-Healing Cementitious Materials Agent in Mortar

Published in Materials

DOI: 10.3390/MA14051255

Application of Component-Based Mechanical Models and Artificial Intelligence to Bolted Beam

to-Column Connections

Published in Applied Sciences

DOI: 10.3390/APP11052297

Seismic Analysis of Concrete Arch Dam Considering Material Failure Criterion

Published in IOP Conference Series: Materials Science and Engineering

DOI: 10.1088/1757-899X/1117/1/012004

Assessment of Mechanical Properties and Structural Morphology of Alkali-Activated Mortars with

Industrial Waste Materials

Published in Sustainability

DOI: 10.3390/SU13042062

Evaluation of the Efficiency of Single-Outrigger Structural Systems in Tall Buildings

Published in IOP Conference Series: Earth and Environmental Science

DOI: 10.1088/1755-1315/682/1/012010

Evaluation of Mechanical and Environmental Properties of Engineered Alkali-Activated Green

Mortar

Published in Materials

DOI: 10.3390/MA13184098

Numerical and Physical Analysis on the Response of a Dam's Radial Gate to Extreme Loading

Performance

Published in Water

DOI: 10.3390/W12092425

An Overview of Progressive Collapse Behavior of Steel Beam-to-Column Connections

Published in Applied Sciences

DOI: 10.3390/APP10176003

Cyclic Behaviour of Fully-Rigid and Semi-Rigid Steel Beam-to-Column Connections

Published in International Journal of Steel Structures

DOI: 10.1007/S13296-019-00290-8

AN OVERVIEW OF THE CONNECTION CLASSIFICATION INDEX

Published in Advanced Steel Construction

DOI: 10.18057/IJASC.2019.15.2.4

Hydraulic and structural considerations of dam's spillway - a case study of Karkheh Dam,

Andimeshk, Iran

Published in Structural Monitoring and Maintenance

DOI: 10.12989/SMM.2019.6.1.001

Construction and Monitoring of Cement/Bentonite Cutoff Walls: Case Study of Karkheh Dam, Iran

Published in *Studia Geotechnica et Mechanica*

DOI: 10.2478/SGEM-2019-0019

Seismic assessment of base-isolated nuclear power plants

Published in *Advances in Computational Design*

DOI: 10.12989/ACD.2017.2.3.211

Seismic Performance of Steel Frames with Semirigid Connections

Published in *Journal of Engineering*

DOI: 10.1155/2017/5284247

Classification System for Semi-Rigid Beam-to-Column Connections

Published in *Latin American Journal of Solids and Structures*

DOI: 10.1590/1679-78252595

Behaviour and design of cold-formed steel C-sections with cover plates under bending

Published in *International Journal of Steel Structures*

DOI: 10.1007/S13296-016-6026-9

Effect of Web Holes and Bearing Stiffeners on Flexural-Shear Interaction Strength of Steel Cold

Formed C-Channel Sections

Published in *Latin American Journal of Solids and Structures*

DOI: 10.1590/1679-78252033

Performance of steel beams strengthened with pultruded CFRP plate under various exposures

Published in *Steel & Composite Structures*

DOI: 10.12989/SCS.2016.20.5.999

Cyclic and Explosive Evaluation of New Proposed Steel Joint

Published in *Advances in Civil Engineering*

DOI: 10.1155/2016/4975097

An experimental investigation of stiffened cold-formed C-channels in pure bending and primarily

shear conditions

Published in *Thin-Walled Structures*

DOI: 10.1016/J.TWS.2015.07.023

Severe Loading Assessment of Modern and New Proposed Beam to Column Connections

Published in *Latin American Journal of Solids and Structures*

DOI: 10.1590/1679-78251286

Modification of Grout Properties in Prepacked Aggregate Concrete Incorporating Palm Oil Fuel

Ash

Published in *Indian Journal of Materials Science*

DOI: 10.1155/2015/353617

Seismic and Progressive Collapse Assessment of New Proposed Steel Connection

Published in *Advances in Structural Engineering*

DOI: 10.1260/1369-4332.18.3.439

Seismic and progressive collapse assessment of SidePlate moment connection system

Published in Structural Engineering and Mechanics

DOI: 10.12989/SEM.2015.54.1.035

Investigation of Progressive Collapse Resistance for a Seismically Designed RC Building

Published in Research Journal of Applied Sciences, Engineering and Technology

DOI: 10.19026/RJASET.7.510

Economic Design Issues of RC Structures against Progressive Collapse

Published in Research Journal of Applied Sciences, Engineering and Technology

DOI: 10.19026/RJASET.7.499

Assessment the Behavior of Seismic Designed Steel Moment Frames Subjected to Progressive

Collapse

Published in Research Journal of Applied Sciences, Engineering and Technology

DOI: 10.19026/RJASET.7.508

Evaluation of extreme load performance of pre-Northridge connections

Published in Gradjevinar

Analyzing Accidents Caused by Overturn of Vehicles (Case Study of Iran-Zanjan Province in 2010)

Published in Research Journal of Applied Sciences, Engineering and Technology

Flexural behaviour of stiffened cold-formed steel rectangular hollow sections

Published in International Journal of Earth Sciences and Engineering

Seismic Performance of RC Beam-Column Connections with Continuous Rectangular Spiral

Transverse Reinforcements for Low Ductility Classes

Published in The Scientific World Journal

DOI: 10.1155/2014/802605

Seismic assessment of RC buildings according to FEMA 356

Published in International Journal of Earth Sciences and Engineering

7.2. Articles published in other peer reviewed international journals

7.3. Papers delivered in international conferences and printed as proceedings

7.4. Books and sections in books published internationally

Self-Healing Cementitious Materials: Technologies, Evaluation Methods, and Applications; GF Huseien, I Faridmehr, MH Baghban; CRC Press

7.5. Articles published in peer reviewed national journals

7.6 Papers delivered at national conferences and printed as proceedings

7.7 Other publications

8. Projects directed and participated

-Exchange experimental data and knowledge related to the project Investigating Embodied Carbon Emissions, Costs, and Serviceability of Post-Tensioned Slabs with Professor Moncef L. Nehdi from MacMaster University, Canada, 2020-2022

✓ -Exchange experimental data on alkali-activated concrete composed of waste materials and investigate mechanical properties, embodied energy, and CO₂ emissions. The National University of Singapore. The person in charge: Dr. Ghasan Fahim Huseien. 2020—2022.

✓ Academic collaboration with professor Mohammad Hajmohammadian Baghban, NTNU, Norway toward The Marie Skłodowska-Curie Actions (MSCA) Postdoctoral Fellowships, 2020-2022.

✓ -Academic collaboration with Dr. Rana Muhammad Adnan from Hohai University, China on Karkheh Dam's (https://en.wikipedia.org/wiki/Karkheh_Dam) discharge estimation, 2020-2021

✓ -Exchange experimental data on steel beam-to-column connections and developing component- based mechanical model, Mediterranean University of Reggio Calabria. The person in charge: Professor Raffaele Pucinotti. December 2019- March 2020

✓ -Exchange data with SidePlate system (US-based company) to propose a new type of beam-to-column connections The person in charge: Professor Behzad Rafezy, director of R&D Department (<https://www.sideplate.com/culture/our-team/>), 2015-2016.

9. Administrative designations

Structural designer & supervisor, Dr Ganjavian hospital (<http://gh.dums.ac.ir/>), maternity & emergency division project (Apr 2016- Sep 2017)

Visiting junior research assistant, Universiti Teknologi Malaysia (May 2015 to Feb 2016)

Design administrative for seismic retrofitting radial spillway at Dez Dam Power Plant Operation generation company (https://en.wikipedia.org/wiki/Dez_Dam)

Lecturer at Islamic Azad University, Dezfoul, Iran “Part-Time”(2017-present)

10. Membership in scholarly institutions

CEO & Co-Founder of EcoStruct Building Technologies LTD, BC, Canada
<https://ecostruct.org/>

- ✓ Global Cement and Concrete Association (GCCA) Global Cement and Concrete Association (GCCA) Innovandi Entrepreneur Network member
- ✓ Service as a reviewer board for scientific and scholarly journals: Archives of Civil and Mechanical Engineering, Engineering Structures, Advances in Structural Engineering, SN Applied Sciences, Materials (MDPI), and Construction and Building Materials.
- ✓ Service as a pre-examiner and an opponent of a post-graduate dissertation, 2017 to 2018 (Azad University, Iran)
- ✓ Full member, 2012 to 2015. Engineering Seismology and Earthquake Engineering Research (E-Seer), Malaysia
- ✓ Councilmember, 2010 to 2012. Iran Construction Engineering Organization (IRCEO), Iran
- ✓ Design administrative (part-time) for seismic retrofitting radial spillway at Dez Dam Power Plant (https://en.wikipedia.org/wiki/Dez_Dam), 2017.


11. Awards and grants

Awards for scientific and artistic research and collaboration with industry (Iran Construction Engineering Organization)

- ✓ Best student award (convocation ceremony, Universiti Teknologi Malaysia, Malaysia)
- ✓ Teaching awards from Islamic Azad University to deliver a research methodology course
- ✓ PhD scholarship (Universiti Teknologi Malaysia (UTM), Malaysia, February 2012- August 2015)

12. Courses taught over the last two academic years

Academic Year	Term	Course Name	Hours/week		Number of Students
			Theoretical	Applied	
	Fall	Computer aided design	1	2	
		static		3	
		Computer application in civil engineering	1	2	
		Strength of materials		3	
		Hydrology		3	
		Dynamic		3	
	Spring	Dynamic of structures		3	
		Engineering drawing	1	2	
		High performance concrete		3	
		Computer aided design		3	
		Static		3	
		Strength of materials		3	



Iman Faridmehr ✓
(Faridmehr, Iman) | Girne American University

[Edit](#)

Identifiers
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<https://orcid.org/0000-0003-3307-3444>

Published names ⓘ Faridmehr, Iman Faridmehr, I. Iman, Faridmer

Organizations ⓘ Girne American University
South Ural State University
Universiti Teknologi Malaysia

Subject Categories Engineering; Construction & Building Technology; Materials Science; Physics; Chemistry

Metrics [← Open dashboard](#)

Profile summary

- 61 Total documents
- 50 Publications indexed in Web of Science
- 49 Web of Science Core Collection publications
- 0 Preprints
- 0 Dissertations or Theses
- 11 Non-indexed publications
- 156 Verified peer reviews
- 0 Verified editor records
- 0 Awarded grants

Web of Science Core Collection metrics ⓘ

14 H-Index	49 Publications
543 Sum of Times Cited	482 Citing Articles