

# FARSHID JANDAGHI-ALAEI

Associate Professor in Civil engineering

## PROFILE

**Farshid Jandaghi Alaei** is an Associate Professor at Shahrood University of Technology. He has published more than 30 technical articles in refereed journals and about 50 conference papers. His major research interests are retrofitting of reinforced concrete structures, high performance Fiber Reinforced cement-based materials and marine structures. He has a British patent on an ultra high performance fiber reinforced cement-based composite, CARDIFRC (GB2391010)

## PERSONAL INFORMATION

### Name

Farshid Jandaghi Alaei

### Birthdate

11 March 1969

### Gender

Male

### Residence

Tehran, Iran

### Nationality

Iranian

## EDUCATION

### PhD

Cardiff University | 1998 - 2001, Cardiff, UK

Structure

### MSc

University of Tehran | 1992 - 1995, Tehran, Iran

Structure

### BSc

Polytechnic University of Technology | 1987 - 1991, Tehran, Iran

Civil Engineering

## EXPERIENCE

2002 - Present

### Shahrood University of Technology (ACADEMIC)

Faculty Member of Civil Engineering Department, Shahrood, Iran

Offered Courses:

- Design of Reinforced Concrete Structures (Advanced): PhD & MSc
- Design of Reinforced Concrete Structures: BSc
- Design of Prestressed Concrete Structures: MSc
- Repair & Strengthening of Structures: MSc & BSc
- Design of Marine Structures: MSc

- 2001 - 2002      **Cardiff University (ACADEMIC)**  
*Tutorial, Cardiff, UK*  
Advanced Concrete Technology, High Performance Fiber Reinforced Cementitious Composites (HPFRCC)
- 1995 - 1998      **Shahrood University of Technology (ACADEMIC)**  
*Faculty Member of Civil Engineering Department, Shahrood, Iran*  
Offered Courses:
  - Static: BSc
  - Strength of Material: BSc
  - Earthquake Engineering: BSc
- 2002 - Present    **Pouya Tarh Pars Co.**  
*Head of Structural Engineering Department, Tehran, Iran*
  - Detail design of Hara Qeshm Oil Jetty and land facilities (35,000 Oil Tankers), 2021
  - Detail design of Hara Qeshm Oil Jetty and land facilities (70,000 Oil Tankers), 2017
  - Basic design of 5,000DWT Anbar Naft Quay in Qeshm, 2016
  - Design of 12,000m<sup>2</sup> warehouse in Assaloyeh, South Pars, 2012
  - Design and calculation check of Fereydoonkenar warehouses, 2012
  - Re-Analysis and review of calculation report of Tabiat multi-story bridge, 2010
  - Construction management & supervision of the main quay wall in Lengeh Port, 2010
  - Design of Kaveh Jetty for export of petrochemical products, Dayyer Busher, 2009
  - Repair design of the main quay wall in Lengeh Port, 2008
  - Repair design for Rajaei Port Complex Slipway, 2008
  - Design of 50,000DWT Quay & Facilities in Sarooj, Asia-Pacific, 2005
  - Repair design for Fajr & Shariati Piers, Busher Port, 2004
  - Design of QFPC Jetty, Qeshm Island, 2003
  - Design of Aftab Quay, Hormozgan Province, 2003
  - Renovation of Azarpaad Quay, Kharg Island, 2002
  - Design of special cultural buildings in Shahrood, 1997
  - Design of warehouse extension for accommodation of 727 airplanes, Aseman Airline, 1996
- 1992 - 1993      **Ab-Nirou Co.**  
*Senior Structural Engineer, Tehran, Iran*
  - Design of structural parts of Urmea Bridge, 1993
- 1990 - 1991      **Tehran-Berkeley Co.**  
*Structural Engineer, Tehran, Iran*
  - Design of Nowshahr warehouses, 1990
  - Design of barrier for Neka power-plant, 1990

### SELECTED PUBLICATIONS

#### **Retrofitting of reinforced concrete beams with CARDIFRC**

FJ Alaei, BL Karihaloo

Journal of Composites for Construction 7 (3), 174-186 2003

#### **Shear strengthening of RC beams using innovative manually made NSM FRP bars**

M Jalali, MK Sharbatdar, JF Chen, FJ Alaei

Construction and Building Materials 36, 990-1000 2012

#### **Fracture model for flexural failure of beams retrofitted with CARDIFRC**

FJ Alaei, BL Karihaloo

Journal of Engineering mechanics 129 (9), 1028-1038 2003

#### **A new technique for retrofitting damaged concrete structures**

BL Karihaloo, FJ Alaei, SDP Benson

Proceedings of the institution of civil engineers-structures and buildings ... 2002

#### **Retrofitting of concrete structures using high performance fibre reinforced cementitious composite (HPFRCC)**

FJ Alaei

Cardiff University 2002

#### **Hysteretic performance of SPSWs with trapezoidally horizontal corrugated web-plates**

H Kalali, M Hajsadeghi, T Zirakian, FJ Alaei

Steel and Composite Structures 19 (2), 277-292 2015

#### **Investigation on behaviour of square/rectangular reinforced concrete columns retrofitted with FRP jacket**

M Hajsadeghi, FJ Alaei, A Shahmohammadi

Journal of Civil Engineering and Management 17 (3), 400-408 2011

#### **Numerical study on steel shear walls with sinusoidal corrugated plates**

H Kalali, TG Ghazijahani, M Hajsadeghi, T Zirakian, FJ Alaei

Latin American Journal of Solids and Structures 13, 2802-2814 2016

#### **Experimental investigation on the performance of unreinforced masonry wall, retrofitted using engineered cementitious composites**

AN Niasar, FJ Alaei, SM Zamani

Construction and Building Materials 239, 117788 2020

#### **Seismic performance parameters of RC beams retrofitted by CARDIFRC®**

MR Maheri, BL Karihaloo, FJ Alaei

Engineering structures 26 (14), 2069-2079 2004

#### **High-performance fibre-reinforce cementitious composites for retrofitting**

FJ Alaei, SDP Benson, BL Karihaloo

International Journal of Materials and Product Technology 17 (1-2), 17-31 2002

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## ACHIEVEMENTS

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### Achievement

- 🏆 • An Inventor of "Cementitious mixtures and a method of production thereof" :Patented in UK (GB2391010), 2005

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## CONTACT

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