



Pouria Jafari

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Education

- ✓ B.Sc, Electrical and Electronics Engineering, Sistan and Baluchestan University - 2004
- ✓ MS, electrical Engineering - control, Tabriz University - 2007
- ✓ PhD, electrical Engineering - control, K. N. Toosi University of Technology - 2018

Courses

- | | |
|------------------------------|--|
| 1. Electrical Circuits - I | 2. Electric Circuits II |
| 3. Linear System and Control | 4. Instrumentation |
| 5. Soft Computing | 6. Fractional order systems and controllers |
| 7. Multivariable Control | 8. Fundamental of Electrical and Electronic Circuits |

Thesis

Master Thesis

1. Image Compression for Artificial Intelligence Applications

نیمسا لکزانیان پور [Mehdi Rezaei, Pouria Jafari, Hadi Esmaeeli Darmian, Farahnaz Mohanna, Samira Noferesti, Ahmad Khajeh]

نیمسال دوم سال تحصیلی 1401

2. Delay and Energy Reduction in Artificial Neural Networks by Weight Approximation

احسان ندافی [Pouria Jafari, Mohammad Hossein Sargolzaei, Farahnaz Mohanna, Ahmad Bakhtiyari Shahri, Samira Noferesti]

نیمسال دوم سال تحصیلی 1401

Journals Papers

2024

1. A Multi-Stream Deep Neural Network to Predict the Energy Consumption of Smart Home Appliances

Mozhde Molashahi, Pouria Jafari, Mehri Mehrjoo

International Journal of Computational Intelligence and Applications Volume: (24) 2450003-1 - 2450003-16

2. A deep learning method for empirical spectral prediction and inverse design of all-optical nonlinear plasmonic ring resonator switches

Ehsan Adibnia, Mohammad Ali Mansouri Birjandi, Majid Ghadrdan, Pouria Jafari

Scientific Reports Volume: (14) 5787-1 - 5787-17

2023

3. Static hand gesture recognition in sign language based on convolutional neural network with feature extraction method using ORB descriptor and Gabor filter

Mahin Moghbeli damane, Farahnaz Mohanna, Pouria Jafari

EXPERT SYSTEMS WITH APPLICATIONS Volume: (211) 118559-1 - 118559-13

4. Low-complexity CNN-based CU partitioning for intra frames

Yaser Rahimi, Mehdi Rezaei, Pouria Jafari

Journal of Real-Time Image Processing Volume: (20) 73-1 - 73-16

2022

5. Content-based coding tree unit level rate-quantization model for intra-coding in high efficiency video coding standard using convolutional neural network

Yaser Rahimi, Mehdi Rezaei, Pouria Jafari

JOURNAL OF ELECTRONIC IMAGING Volume: (31) 033026-1 - 033026-19

2020

6. Designing of a Control Approach for Uncertain Fractional Order Systems with Indirect Adaptive Fuzzy Controller and Frational Order Sliding Mode

Pouria Jafari, Mohammad Teshnehlab, Mahsan Tavakoli-Kakhki

JOURNAL OF CONTROL Volume: (14) 89 - 99

2018

7. Adaptive type-2 fuzzy system for synchronisation and stabilisation of chaotic non-linear fractional order systems

Pouria Jafari, Mohammad Teshnehlab, Mahsan Tavakoli-Kakhki

IET Control Theory and Applications Volume: (12) 183 - 193

2017

8. Design of Direct Adaptive Fuzzy Controller for Nonlinear Fractional Order Systems with Compensation

Pouria Jafari, mohammad Teshnehlal, mahsan Tavakoli-Kakhki

Volume: (47) 917 - 929

9. Synchronization and stabilization of fractional order nonlinear systems with adaptive fuzzy controller and compensation signal

Pouria Jafari, Mohammad Teshnehlal, Mahsan Tavakoli-Kakhki

NONLINEAR DYNAMICS Volume: (90) 1037 - 1052

2014

10. An Overview of the Theory and Applications of Interval-based Intelligent Systems and Controllers

Pouria Jafari, Seyed Mohammad Javad Alhasher, Mohammad Teshnehlal

JOURNAL OF CONTROL Volume: (8) 27 - 49

Conferences Papers

2020

1. Improving the Estimation of Smart Homes Energy Consumption by Clustering the Correlated Loads

2017

2. Adaptive Fuzzy System for Synchronization and Stabilization of Fractional-Order Nonlinear Chaotic Systems

Pouria Jafari, Mohammad Teshnehlal, mahsan Tavakoli-Kakhki

Executive activities

مشاوره دانشجویان کارشناسی

from 1403/11/06 - to 1404/04/06

معاون آموزشی دانشکده مهندسی برق و کامپیوتر

from 1403/07/01 - now

مشاوره دانشجویان کارشناسی

from 1403/07/01 - to 1403/11/05

مشاوره دانشجویان کارشناسی

from 1402/11/21 - to 1403/04/04

مشاوره دانشجویان کارشناسی

from 1402/07/01 - to 1402/11/05