Hossein Moeinkhah

Associate Professor

Faculty : Engineering

Departments : Mechanical Engineering

Phone : +9854 - 31136447

Email : hmoein@eng.usb.ac.ir

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

Education

- B.Sc, Mechanical Engineering,Ferdowsi University of Mashhad - 2004
- MS, Mechanical Engineering,Isfahan University of Technology - 2006
- PhD, Mechanical Engineering,Ferdowsi University of Mashhad - 2014

Courses

1. Automatic Control
2. Mechanical Vibrations
3. Advanced Automatic Control
4. Control in Robotics
5. Parallel robots
6. Statics
7. Advanced Robatics
8. Advanced Vibrations

Master Thesis

Journals Papers

2020

1. On the Synchronization and Stabilization of fractional-order chaotic systems: Recent advances and future perspectives

Mohammad Ahmadi Balootaki, Hossein Rahmani, Hossein Moeinkhah, Ardashir Mohammadzadeh

PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: (551) 124203-1 - 124203-16

2. A theoretical model for analysis of ionic polymer metal composite sensors in fluid environments

, Hossein Moeinkhah

Journal of Computational Applied Mechanics Volume: (51) 21 - 29

3. Robust super-twisting sliding mode controller with state observer for position tracking of ionic polymer-metal composite actuators

, Hossein Moeinkhah

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES Volume: (31) 1193 - 1203

2019

4. Digital control design for an IPMC actuator using adaptive optimal proportional integral plus method: Simulation and experimental study

Ehsan Zakeri, Hossein Moeinkhah

SENSORS AND ACTUATORS A-PHYSICAL Volume: (298) 111577 -

5. Electrochemical viscoelastic modeling to predict quasi-static and dynamic response of IPMC actuators

Sajad Sampour, Hossein Moeinkhah, Hossein Rahmani

MECHANICS OF MATERIALS Volume: (138) 103172 -

6. Analytical Solution for Nonlinear Dynamic Response of the Viscoelastic Microbeam Under Electrical Actuation Based Upon Micropolar Theory of Elasticity

Sajad Sampour, Hossein Moeinkhah, Hossein Rahmani

Volume: (9) 125 - 138

2018

7. Non-linear vibration of curved microbeam under electrostatic actuation by using reduced order model and finite element simulation

, Hossein Moeinkhah

Volume: (17) 514 - 522

2017

8. An intelligent controller for ionic polymer metal composites using optimized fuzzy reinforcement learning

Masoud Goharimanesh, Elyas Abbasi Jannatabadi, Hossein Moeinkhah, Mohammad Bagher Naghibi Sistani, A

JOURNAL OF INTELLIGENT and FUZZY SYSTEMS Volume: (33) 125 - 136

2016

9. Identification of Ionic Polymer Metal Composite Actuator Using State- Dependent Parameter Method

Hossein Moeinkhah, , Davod Mohebbi Kalhori

Volume: (16) 300 - 306

2015

10. Accurate Dynamic Modeling of Helical Ionic Polymer-Metal Composite Actuator Based on Intrinsic Equations

Hossein Moeinkhah, , ,

IEEE-ASME TRANSACTIONS ON MECHATRONICS Volume: (20) 1680 - 1688

2014

11. Design of a robust quantitative feedback theory position controller for an ionic polymer metal composite actuator using an analytical dynamic model

Hossein Moeinkhah, Alireza Akbarzadeh, Jalil Rezaeepazhand

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES Volume: (25) 1965 - 1977

2013

12. Analytical dynamic modeling of a cantilever IPMC actuator based on a distributed electrical circuit

Hossein Moeinkhah, Jalil Rezaeepazhand, Alireza Akbarzadeh

Smart Materials and Structures Volume: (22) 055033 -

13. How does clamping pressure influence actuation performance of soft ionic polymer-metal composites?

Hossein Moeinkhah, Jin-Young Jung, Jin-Han Jeon, Ali Akbarzadeh, Jalil Rezaeepazhand, K C Park, Il-K

Smart Materials and Structures Volume: (22) 025014 -

1. Path Following Controller Design for an Autonomous Vehicle

   The 27th Annual International Conference of Iranian Society of Mechanical Engineers

2. Physics-based modeling of multi-DOF helical IPMC actuator

   First Conference on Mechanical Behavior Modeling of Materials

3. Sensitivity of planetary gear natural frequencies to system parameters

Executive activities

رئیس مرکز فناوري و نوآوري دانشگاه

from 1396/11/14 - to 1399/04/01

مدیر کارکاههاي آموزشي

from 1396/06/25 - to 1396/10/20

مدیر کارگاههاي آموزشي دانشکده مهندسي

from 1395/07/01 - to 1396/05/20