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Ehsan Zakeri, M'Sc

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Education

Thesis

Research Experience

Statistics

RG Score	14.51
Publications	27
Reads	2,585
Citations	98

Awards & Grants

Skills & Activities

Skills	Mechanical Engineering, System Identification, Mechatronics, Control Theory, Control Systems, Nonlinear Control, Control, Fuzzy Logic Control, Nonlinear Systems, Optimization, Robotics, Automation & Robotics, Automotive Industry, Sliding Mode Control, Engineering, Applied and Computational Mathematics, Soft Computing, Kalman Filtering, Fuzzy Mathematics, UAV, Fuzzy Control, Neuro-Fuzzy, Artificial Neural Networks, Advanced Control Theory, MATLAB Simulation, System Modeling, Controller Design, Automation, Systems Dynamics, System Dynamics Modeling
Languages	English, Persian
Scientific Memberships	
Interests	

Publication Highlights

Ehsan Zakeri, Seyed Alireza Moezi, Mohammad Eghtesad: *Tracking Control of Ball on Sphere System Using Tuned Fuzzy Sliding Mode Controller Based on Artificial Bee Colony Algorithm*. International Journal of Fuzzy Systems 02/2017; 20(1)., DOI:10.1007/s40815-017-0302-5

Ehsan Zakeri, Seyed Alireza Moezi, Yousef Bazargan-Lari, Amin Zare: *Multi-tracker Optimization Algorithm: A General Algorithm for Solving Engineering Optimization Problems*. Iranian Journal of Science and Technology: Transactions of Mechanical Engineering 12/2016; 41(4)., DOI:10.1007/s40997-016-0066-9

Ehsan Zakeri, Said Farahat, Seyed Alireza Moezi, Amin Zare: *Robust sliding mode control of a mini unmanned underwater vehicle equipped with a new arrangement of water jet propulsions: Simulation and experimental study*. Applied Ocean Research 09/2016; 59:521-542., DOI:10.1016/j.apor.2016.07.006

Ehsan Zakeri, Said Farahat, Seyed Alireza Moezi, Amin Zare: *Path Planning for Unmanned Underwater Vehicle in 3D Space with Obstacles Using Spline-Imperialist Competitive Algorithm and Optimal Interval Type-2 Fuzzy Logic Controller*. Latin American Journal of Solids and Structures 03/2016; 13(2016 (6)):1054-1085., DOI:10.1590/1679-78252029

Books

Book Chapters

Journal Publications

Seyed Alireza Moezi, Ehsan Zakeri, Amin Zare: *Structural single and multiple crack detection in cantilever beams using a hybrid Cuckoo-Nelder-Mead optimization method*. Mechanical Systems and Signal Processing 01/2018; 99:805-831., DOI:10.1016/j.ymssp.2017.07.013

Seyed Alireza Moezi, Ehsan Zakeri, Amin Zare: *A Generally Modified Cuckoo Optimization Algorithm for Crack Detection in Cantilever Euler-Bernoulli Beams*. Precision Engineering 12/2017;, DOI:10.1016/j.precisioneng.2017.12.010

Ehsan Zakeri, Seyed Alireza Moezi, Mohammad Eghtesad: *Tracking Control of Ball on Sphere System Using Tuned Fuzzy Sliding Mode Controller Based on Artificial Bee Colony Algorithm*. International Journal of Fuzzy Systems 02/2017; 20(1)., DOI:10.1007/s40815-017-0302-5

Ehsan Zakeri, Seyed Alireza Moezi, Yousef Bazargan-Lari, Amin Zare: *Multi-tracker Optimization Algorithm: A General Algorithm for Solving Engineering Optimization Problems*. Iranian Journal of Science and Technology: Transactions of Mechanical Engineering 12/2016; 41(4)., DOI:10.1007/s40997-016-0066-9

Ehsan Zakeri, Said Farahat, Seyed Alireza Moezi, Amin Zare: *Robust sliding mode control of a mini unmanned underwater vehicle equipped with a new arrangement of water jet propulsions: Simulation and experimental study*. Applied Ocean Research 09/2016; 59:521-542., DOI:10.1016/j.apor.2016.07.006

Mehdi Zare, Ehsan Zakeri, Jafar Sadeghi, Said Farahat: *Tracking control of an unmanned aerial vehicle using cascade configuration of fuzzy logic controllers in presence of windflaw*. International Journal of ADVANCED AND APPLIED SCIENCES 08/2016; 3(8):43-51., DOI:10.21833/ijaas.2016.08.008

Ehsan Zakeri, Said Farahat, Seyed Alireza Moezi, Amin Zare: *Path Planning for Unmanned Underwater Vehicle in 3D Space with Obstacles Using Spline-Imperialist Competitive Algorithm and Optimal Interval Type-2 Fuzzy Logic Controller*. Latin American Journal of Solids and Structures 03/2016; 13(2016 (6)):1054-1085., DOI:10.1590/1679-78252029

Seyed Alireza Moezi, Mansour Rafeeyan, Ehsan Zakeri, Amin Zare: *Simulation and experimental control of a 3-RPR parallel robot using optimal fuzzy controller and fast on/off solenoid valves based on the PWM wave*. ISA Transactions 01/2016; 61., DOI:10.1016/j.isatra.2015.12.005

Seyed Alireza Moezi, Ehsan Zakeri, Amin Zare, Mehrshad Nedaei: *On the application of modified cuckoo optimization algorithm to the crack detection problem of cantilever Euler-Bernoulli beam*. Computers & Structures 05/2015; 157(c):42-50., DOI:10.1016/j.compstruc.2015.05.008

Seyed Alireza Moezi, Ehsan Zakeri, Yousef Bazargan - Lari, Amin Zare: *2&3-Dimensional optimization of connecting rod with genetic and modified cuckoo optimization algorithms*. Iranian Journal of Science and Technology: Transactions of Mechanical Engineering 04/2015; 39(M1):39-49.

Seyed Alireza Moezi, Ehsan Zakeri, Yousef Bazargan-Lari, Mahmood Khalghollah: *Fuzzy Logic Control of a Ball on Sphere System*. Advances in Fuzzy Systems 12/2014; 2014(2014):1-6., DOI:10.1155/2014/291430

Ehsan Zakeri, Said Farahat: *Safe path planning and control of an Unmanned Underwater Vehicle (UUV) using particle swarm optimization and fuzzy logic control method (In Persian)*.

Ehsan Zakeri, Seyed Alireza Moezi, Mehdi Zare, Mostafa Parnian Rad: *Control of Puma-560 Robot Using Feedback Linearization Control Method and Kalman Filter Estimator for Regulation and Tracking Purpose*.

Seyed Alireza Moezi, Ehsan Zakeri, Yousef Bazargan-Lari, Amin Zare: *2D Shape optimization via genetic algorithm*.

Seyed Alireza Moezi, Ehsan Zakeri, Yousef Bazargan-Lari, Mohammad Tavallaeinejad: *Control of a Ball on Sphere System with Adaptive Neural Network Method for Regulation Purpose*. Journal of Applied Sciences 04/2014; 14(17):1984-1989., DOI:10.3923/jas.2014.1984.1989

Alireza Tahavvor, Ehsan Zakeri, Seyed Alireza Moezi: *Modeling of Frost Growth on a Horizontal Circular Cylinder under Natural Convection Using Fractal Geometry Analysis*. Iranian Journal of Science and Technology: Transactions of Mechanical Engineering 04/2014; 38(M1):1-8.

Mehdi Zare, Jafar Sadeghi, Said Farahat, Ehsan Zakeri: *Regulating and Helix Path Tracking for Unmanned Aerial Vehicle (UAV) Using Fuzzy Logic Controllers*.

Ehsan Zakeri, Seyed Alireza Moezi, Yousef Bazargan–lari: *Control of a Ball on Sphere System with Adaptive Feedback Linearization method for regulation purpose*.

Ehsan Zakeri, Yousef Bazargan-Lari, Mohammad Eghtesad: *Simultaneous Control of GMAW Process and SCARA Robot in Tracking a Circular Path via a Cascade Approach*. Trends in Applied Sciences Research 07/2013;, DOI:10.3923/tasr.2012.845.858

Patents

Conference Proceedings

Seyed Alireza Moezi, Ehsan Zakeri, Yousef Bazargan-Lari, Amin Zare, Mohammad Eghtesad: *On the application of Genetic and Cuckoo Optimization Algorithms to a 2&3-Dimensional Connecting Rod*. 24th Annual International Conference on Mechanical Engineering (ISME2016), Yazd-Iran; 04/2016

Ehsan Zakeri, Said Farahat, Seyed Alireza Moezi, Mehdi Zare: *Optimal Robust Control of an Unmanned Underwater Vehicle Independent of Hydrodynamic Forces Using Firefly Optimization Algorithm*. 24th Annual International Conference on Mechanical Engineering-ISME2016, Yazd University, Yazd, Iran; 04/2016

Ehsan Zakeri, Seyed Alireza Moezi, Yousef Bazargan-Lari, Amin Zare, Mohammad Eghtesad: *Robot Manipulation by a New Hybrid Feedback Linearization Adaptive Neuro-Fuzzy Control Method*. 24th Annual International Conference on Mechanical Engineering-ISME2016, Yazd University, Yazd, Iran; 04/2016

Seyed Alireza Moezi, Ahmadreza Ghahramani, Ehsan Zakeri, Yousef Bazargan-Lari, Babak Assadsangabi: *Shape optimization of BELTs via genetic algorithm*. ICMEAT 2012; 10/2012

Ehsan Zakeri, Ahmadreza Ghahramani, SeyedAlireza Moezi, YousefBazargan-Lari: *Adaptive Feedback Linearization Control Of a Ball on Sphere System*. ICMEAT 2012; 10/2012

Yousef Bazargan - Lari, Ehsan Zakeri, Ahmadreza Ghahramani, Kimia Bazargan – Lari, Seyed Alireza Moezi: *Disturbance Rejection Control of 3-D Overhead Gantry Crane System for Regulation purpose*. National Conference on Mechanical Engineering February 22-23, 2012, Islamic Azad University, Shiraz Branch, Shiraz, Iran; 02/2012

Ehsan Zakeri: *A Neural Network Control for 3-D Overhead Gantry Crane System With Uncertain Load Disturbance*. 20th Annual Conference of Mechanical Engineering, shiraz; 01/2012

Technical Reports