Mohammad Eghtesad

List of Publications by Year
in descending order

119 papers	1,135 citations	394421 19 h-index	501196 28 g-index
119 all docs	119 docs citations	119 times ranked	914 citing authors

#	Article	IF	Citations
1	Nonlinear forced vibrations of nonlocal strain gradient microbeams. Mechanics Based Design of Structures and Machines, 2023, 51, 1035-1053.	4.7	10
2	Stabilization of discrete-time upper triangular nonlinear cascade systems using cross term constructed Lyapunov functional. Applied Mathematical Modelling, 2021, 89, 572-591.	4.2	2
3	Dynamic Modeling and Control of a Novel One-Legged Hopping Robot. Robotica, 2021, 39, 1692-1710.	1.9	4
4	Investigation of dynamic pull-in instability of suspended microchannel resonators using homotopy analysis method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	1
5	Tracking ankle joint movements during gait cycle via control of functional electrical stimulation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, , 095441192110523.	1.8	1
6	Vibration control of micro-scale structures using their reduced second order bilinear models based on multi-moment matching criteria. Applied Mathematical Modelling, 2020, 78, 287-296.	4.2	6
7	Mass and heat transfer control in the GMAW process utilizing feedback linearization and sliding mode observer. International Communications in Heat and Mass Transfer, 2020, 111, 104410.	5.6	2
8	Cross term constructed Lyapunov function based two-time scale controller design and vibration suppression for a rotating hub-beam system. Transactions of the Institute of Measurement and Control, 2020, 42, 551-564.	1.7	3
9	Semi-active vibration control of a semi-submersible offshore wind turbine using a tuned liquid multi-column damper. Journal of Ocean Engineering and Marine Energy, 2020, 6, 243-262.	1.7	9
10	ADJUSTING OPTIMAL HEIGHT OF WALKER HANDLES USING EXPERIMENTAL COGNITIVE DATA AND ADAPTIVE NEURO-FUZZY CLASSIFICATION. Biomedical Engineering - Applications, Basis and Communications, 2020, 32, 2050020.	0.6	0
11	Nonsingular decoupled terminal sliding-mode control for a class of fourth-order under-actuated nonlinear systems with unknown external disturbance. Engineering Research Express, 2020, 2, 035028.	1.6	8
12	Intelligent Control and Dynamic Modeling for System of Human and Wheeled Robotic Walker. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 929-943.	1.3	0
13	MODELING AND CONTROL OF HUMAN AND WHEELED ROBOTIC WALKER COUPLED DYNAMICS. Biomedical Engineering - Applications, Basis and Communications, 2019, 31, 1950018.	0.6	1
14	Tracking control design for a multi-degree underactuated flexible-cable overhead crane system with large swing angle based on singular perturbation method and an energy-shaping technique. JVC/Journal of Vibration and Control, 2019, 25, 1752-1767.	2.6	8
15	Optimal adaptive interval type-2 fuzzy fractional-order backstepping sliding mode control method for some classes of nonlinear systems. ISA Transactions, 2019, 93, 23-39.	5.7	34
16	Tracking control of suspended microchannel resonators based on Krylov model order reduction method. JVC/Journal of Vibration and Control, 2019, 25, 1019-1030.	2.6	2
17	Enhancing drug delivery to human trachea through oral airway using magnetophoretic steering of microsphere carriers composed of aggregated superparamagnetic nanoparticles and nanomedicine: A numerical study. Journal of Aerosol Science, 2019, 127, 63-92.	3.8	13
18	Optimal interval type-2 fuzzy fractional order super twisting algorithm: A second order sliding mode controller for fully-actuated and under-actuated nonlinear systems. ISA Transactions, 2019, 85, 13-32.	5.7	43

#	Article	IF	Citations
19	An isogeometric analysis approach to the stability of curved pipes conveying fluid. Marine Structures, 2018, 59, 321-341.	3.8	12
20	A Krylov subspace method based on multi-moment matching for model order reduction of large-scale second order bilinear systems. Applied Mathematical Modelling, 2018, 60, 739-757.	4.2	9
21	Dynamic modeling of vortex induced vibration wind turbines. Renewable Energy, 2018, 121, 632-643.	8.9	46
22	Tracking Control of Ball on Sphere System Using Tuned Fuzzy Sliding Mode Controller Based on Artificial Bee Colony Algorithm. International Journal of Fuzzy Systems, 2018, 20, 295-308.	4.0	15
23	Dynamics and vibration analysis of suspended microchannel resonators based on strain gradient theory. Microsystem Technologies, 2018, 24, 1995-2005.	2.0	4
24	Model order reduction of second-order systems with nonlinear stiffness using Krylov subspace methods and their symmetric transfer functions. International Journal of Systems Science, 2018, 49, 2630-2643.	5.5	2
25	Stochastic analysis of pull-in instability of geometrically nonlinear size-dependent FGM micro beams with random material properties. Composite Structures, 2018, 200, 466-479.	5.8	20
26	Simulation of Active Eye Motion Using Finite Element Modelling. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	2
27	MULTI-OBJECTIVE GAIN-SCHEDULED H âˇž CONTROL OF AN OFFSHORE WIND TURBINE WITH TENSION LEG PLATFORM. Mechatronic Systems and Control, 2018, 46, .	0.2	1
28	NumericalÂinvestigation and dynamic behavior of pipes conveying fluid based on isogeometric analysis. Ocean Engineering, 2017, 140, 388-400.	4.3	32
29	Prediction of muscle activation for an eye movement with finite element modeling. Computers in Biology and Medicine, 2017, 89, 368-378.	7.0	9
30	Boundary Stabilization of a Cosserat Elastic Body. Asian Journal of Control, 2017, 19, 2219-2225.	3.0	4
31	Configuration space approach to analysis of consensus and formation. , 2017, , .		0
32	VIBRATION SUPPRESSION OF A ROTATING HUB-BEAM SYSTEM WITH A FLEXIBLE SUPPORT USING FRACTIONAL ORDER SLIDING MODE CONTROL. Transactions of the Canadian Society for Mechanical Engineering, 2017, 41, 627-643.	0.8	5
33	Nonlinear Robust Adaptive Multi-Modal Vibration Control of Bi-Electrode Micro-Switch with Constraints on the Input. Micromachines, 2017, 8, 263.	2.9	5
34	Dynamic Modeling and Hâˇž Control of Offshore Wind Turbines. International Journal of Engineering and Manufacturing, 2017, 7, 10-25.	0.7	4
35	VIBRATION SUPPRESSION OF A ROTATING HUB-BEAM SYSTEM WITH A FLEXIBLE SUPPORT USING FRACTIONAL ORDER SLIDING MODE CONTROL. Transactions of the Canadian Society for Mechanical Engineering, 2017, 41, 627-643.	0.8	1
36	Dynamic Modeling of an Out-Pipe Inspection Robot and Experimental Validation of the Proposed Model using Image Processing Technique. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2016, 40, 77-85.	1.3	7

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37	Nonlinear modeling and tracking control of a single-link micro manipulator using controlled Lagrangian method. JVC/Journal of Vibration and Control, 2016, 22, 2645-2656.	2.6	5
38	Planing force identification in high-speed underwater vehicles. JVC/Journal of Vibration and Control, 2016, 22, 4176-4191.	2.6	14
39	An Adaptive Robust Control Method for Trajectory Tracking of a 5 DOF RLED Robot Manipulator. IOSR Journal of Mechanical and Civil Engineering, 2016, 13, 127-136.	0.1	0
40	Tracking control of a planar five-link bipedal walking system with point contact, considering self-impact joint constraint by adaptive neural network method. Latin American Journal of Solids and Structures, 2015, 12, 1074-1101.	1.0	1
41	ADAPTIVE NEURAL NETWORK CONTROL OF A HUMAN SWING LEG AS A DOUBLE-PENDULUM CONSIDERING SELF-IMPACT JOINT CONSTRAINT. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 201-219.	0.8	4
42	A new robust fuzzy method for unmanned flying vehicle control. Journal of Central South University, 2015, 22, 2166-2182.	3.0	10
43	Using Singular Perturbation Method for Controlling a Crane System with a Flexible Cable and Large Swing Angle. Journal of Low Frequency Noise Vibration and Active Control, 2015, 34, 361-383.	2.9	8
44	Dynamics and control of a smart flexible satellite moving in an orbit. Multibody System Dynamics, 2015, 35, 1-23.	2.7	38
45	Adaptive passivity-based control of a flexible-joint robot manipulator subject to collision. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 840-849.	2.1	5
46	High-speed underwater projectiles modeling: a new empirical approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 613-626.	1.6	15
47	A Novel Dynamic Model for a Crane System with a Flexible Cable and Large Swing Angle. International Journal of Scientific Engineering and Technology, 2015, 4, 370-377.	0.2	1
48	Modelling and Control of an Overhead Crane System with a Flexible Cable and Large Swing Angle. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 395-409.	2.9	14
49	Application of fractional-order control for vibration suppression of viscoelastic beams. International Journal of Computational Materials Science and Engineering, 2014, 03, 1450006.	0.7	1
50	Analysis of an electrically actuated fractional model of viscoelastic microbeams. Structural Engineering and Mechanics, 2014, 52, 937-956.	1.0	1
51	Analytical study of mixed electroosmotic-pressure-driven flow in rectangular micro-channels. Theoretical and Computational Fluid Dynamics, 2013, 27, 599-616.	2.2	12
52	Kinematic and Static Analyses of Statically Balanced Spatial Tensegrity Mechanism with Active Compliant Components. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 71, 287-302.	3.4	9
53	Vibration suppression of smart nonlinear flexible appendages of a rotating satellite by using hybrid adaptive sliding mode/Lyapunov control. JVC/Journal of Vibration and Control, 2013, 19, 975-991.	2.6	25
54	A BSO-Based Algorithm for Multi-robot and Multi-target Search. Lecture Notes in Computer Science, 2013, , 312-321.	1.3	4

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55	Large deflection of viscoelastic beams using fractional derivative model. Journal of Mechanical Science and Technology, 2013, 27, 1063-1070.	1.5	25
56	Feedback/feedforward modeling and control of electroosmotic flow in a T-shape microchannel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2510-2520.	2.1	2
57	Boundary Control of Temperature Distribution in a Spherical Shell With Spatially Varying Parameters. Journal of Heat Transfer, 2012, 134, .	2.1	2
58	Boundary stabilization of vibration of nonlocal micropolar elastic media. Applied Mathematical Modelling, 2012, 36, 3447-3453.	4.2	8
59	Simultaneous Control of GMAW Process and SCARA Robot in Tracking a Circular Path via a Cascade Approach. Trends in Applied Sciences Research, 2012, 7, 845-858.	0.4	6
60	Adaptive Backstepping Control of a New Chaotic System in the Presence of Disturbance. Trends in Applied Sciences Research, 2012, 7, 572-578.	0.4	0
61	An innovative design of fast current controller circuit for MR dampers. , 2011, , .		2
62	Combined Feedback/Feedforward Velocity Control of Electrokinetically Driven Flow in a Network of Planar Microchannels. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12313-12318.	0.4	4
63	Boundary Stabilization of Parachute Dams in Contact With Fluid. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	8
64	Optimization and design of disk-type MR brakes. International Journal of Automotive Technology, 2011, 12, 921-932.	1.4	55
65	Vibration suppression and adaptive-robust control of a smart flexible satellite with three axes maneuvering. Acta Astronautica, 2011, 69, 307-322.	3.2	65
66	Design, Construction and Control of a Remotely Operated Vehicle (ROV). , 2011, , .		11
67	Boundary Control of Temperature Distribution in a Rectangular Functionally Graded Material Plate. Journal of Heat Transfer, 2011, 133, .	2.1	5
68	Trajectory tracking and active vibration suppression of a smart Single-Link flexible arm using a composite control design. Smart Structures and Systems, 2011, 7, 103-116.	1.9	6
69	Boundary Control of Large Amplitude Vibration of Anisotropic Composite Laminated Plates. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	1
70	Adaptive Backstepping Stabilization of Uncertain Switched Nonlinear Systems in Parametric Strict-Feedback Form. , 2010, , .		1
71	Dynamic Analysis and Sliding Mode Impedance Control of a Robot Manipulator Subject to Impact/Contact With an Arbitrary Environment. , 2010, , .		0
72	Neural Network Solution for Forward Kinematics Problem of Cable Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 60, 201-215.	3.4	44

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73	Temperature control of functionally graded plates using a feedforward–feedback controller based on the inverse solution and proportional-derivative controller. Energy Conversion and Management, 2010, 51, 140-146.	9.2	19
74	Asymptotic stabilization of vibrating composite plates. Systems and Control Letters, 2010, 59, 530-535.	2.3	13
75	Maneuver control and active vibration suppression of a two-link flexible arm using a hybrid variable structure/Lyapunov control design. Acta Astronautica, 2010, 67, 1218-1232.	3.2	40
76	BUCKLING AND FLUTTER OF A COLUMN ENHANCED BY PIEZOELECTRIC LAYERS AND LUMPED MASS UNDER A FOLLOWER FORCE. International Journal of Structural Stability and Dynamics, 2010, 10, 1083-1097.	2.4	17
77	Trajectory Tracking and Vibration Suppression for General Spatial Motion of a Flexible Plate via Two-time Scale and Boundary Control Methods. JVC/Journal of Vibration and Control, 2010, 16, 1465-1501.	2.6	5
78	Boundary Control of Temperature Distribution in a Rectangular FGM Plate. , 2009, , .		0
79	Boundary Control of Temperature Distribution in a Thick Rectangular FGM Plate (Cubic Block). , 2009, , .		0
80	Hybrid sliding mode control of semi-active suspension systems. Smart Materials and Structures, 2009, 18, 125027.	3.5	20
81	Fuzzy Logic Approach for Controlling Temperature in Electroosmotic Flow Fields. , 2009, , .		0
82	Exponential Stabilization of Transverse Vibration and Trajectory Tracking for General In-Plane Motion of an Euler–Bernoulli Beam Via Two-Time Scale and Boundary Control Methods. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	3
83	Analytical Approach for Finding Velocity and Temperature Distribution of Electroosmotic Flow in Micro- and Transitional Nano-Channels. , 2009, , .		0
84	Three-dimensional inverse transient heat transfer analysis of thick functionally graded plates. Energy Conversion and Management, 2009, 50, 450-457.	9.2	27
85	Flocking of a team of Lagrangian agents. , 2009, , .		6
86	Two-time scale control and observer design for trajectory tracking of two cooperating robot manipulators moving a flexible beam. Robotics and Autonomous Systems, 2009, 57, 212-221.	5.1	58
87	Experimental study of a robust-adaptive controller design for two cooperating RLED robot manipulators carrying a rigid payload. , 2009, , .		4
88	Design of Statically Balanced Six-Degree-of-Freedom Parallel Mechanisms Based on Tensegrity System. , 2009, , .		2
89	Stabilization of a Four-Wheel Mobile Robot From Kinematic Model to Dynamic Model by Feedback Passivation of Cascades Using Chained Form. , 2009, , .		0
90	Workspace Analysis for Planar and Spatial Redundant Cable Robots. Journal of Mechanisms and Robotics, 2009, 1, .	2.2	20

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91	Coupled DQâ€"FE methods for two dimensional transient heat transfer analysis of functionally graded material. Energy Conversion and Management, 2008, 49, 995-1001.	9.2	24
92	Flexible liver-needle navigation using fish-like robotic elements. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	3
93	Inverse Dynamics of Hexa Parallel Robot Using Lagrangian Dynamics Formulation. , 2008, , .		9
94	Boundary Control of Vibration Of General Composite Laminated Plate. , 2008, , .		2
95	Workspace analysis of planar and spatial redundant cable robots. , 2008, , .		4
96	A Coupled Differential Quadrature and Finite Element Method for 3-D Transient Heat Transfer Analysis of Functionally Graded Thick Plates. Numerical Heat Transfer, Part B: Fundamentals, 2008, 53, 358-373.	0.9	17
97	Vibration Control and Trajectory Tracking for General In-Plane Motion of an Eulerâ€"Bernoulli Beam Via Two-Time Scale and Boundary Control Methods. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	30
98	Compressor&#x2019;s fuzzy logic controller design in proton membrane fuel cell generator. , 2008, , .		1
99	Boundary Control of a Vibrating FGM Rectangular Plate. , 2008, , .		1
100	Stability analysis and internal dynamics of MIMO GMAW process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14834-14839.	0.4	4
101	Stability Analysis of a Flexible Two-Link Timoshenko Manipulator Using Boundary Control Method. , 2008, , .		2
102	Boundary control of vibration of symmetric composite laminated plate. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11847-11852.	0.4	3
103	MIMO Stabilization of the Pulsed Gas Metal Arc Welding Process via Input-Output Feedback Linearization Method By Internal Dynamics Analysis. Journal of Applied Sciences, 2008, 8, 4561-4569.	0.3	3
104	Optimization and Design of Disk-Type MR Brakes. , 2008, , .		0
105	A Tracking Control Design Based on Time-Varying Disturbance Attenuation for a 6-DOF Rigid Manipulator. , 2007, , .		0
106	Two-Time Scale Fuzzy Logic Controller and Observer Design for Trajectory Tracking of Two Cooperating Robot Manipulators Handling a Flexible Beam. , 2007, , .		3
107	ADAPTIVE NEURO-FUZZY CONTROL DESIGN FOR TWO COOPERATING ROBOT MANIPULATORS HANDLING A FLEXIBLE BEAM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 175-183.	0.4	3
108	Two-Time Scale Control and Observer Design for Trajectory Tracking of Two Cooperating Robot Manipulators Moving a Flexible Beam. Proceedings of the American Control Conference, 2007, , .	0.0	1

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109	Consensus in Noisy Switching Directed Networks with Time-Delays. , 2007, , .		2
110	Study of the internal dynamics of an autonomous mobile robot. Robotics and Autonomous Systems, 2006, 54, 342-349.	5.1	18
111	Adaptive-Robust Control of the Stewart-Gough Platform as a Six DOF Parallel Robot. , 2006, , .		9
112	Design and Control of Three-Robot Visual Servoing Mechatronics System. , 2006, , .		0
113	Neural Network Control of two Electrically Driven Cooperating 6 DOF Robot Manipulators. , 2006, , .		0
114	Inverse Dynamics Control of Two 5 DOF Cooperating Robot Manipulators. , 2005, , 187.		3
115	Experimental Study of Dynamic Based Feedback Linearization for Trajectory Tracking of a Four-Wheel Autonomous Ground Vehicle. Autonomous Robots, 2005, 19, 27-40.	4.8	4
116	A Fuzzy Nonlinear Modeling of a McPherson Suspension System. , 2005, , 503.		0
117	Experimental study of the dynamic based feedback linearization of an autonomous wheeled ground vehicle. Robotics and Autonomous Systems, 2004, 47, 47-63.	5.1	18
118	Suppression Vibration Adaptive Inverse Dynamics Control of Flexible Plate with Piezoelectric Layers. Advanced Materials Research, 0, 403-408, 618-624.	0.3	0
119	Experimental investigation of a reduced-order model for a vortex-induced vibration wind converter. Archive of Applied Mechanics, 0, , 1.	2.2	0