Ahmad Athif Mohd Faudzi

List of Publications by Year
in descending order

83 papers	858 citations	623734 14 h-index	677142 22 g-index
92 all docs	92 docs citations	92 times ranked	605 citing authors

#	Article	IF	Citations
1	A review on 3D printing in tissue engineering applications. Journal of Polymer Engineering, 2022, 42, 243-265.	1.4	29
2	A Novel Approach for Reducing Actuators in Soft Continuum Robots and Manipulators. Lecture Notes in Networks and Systems, 2022, , 181-190.	0.7	1
3	Modeling and Fuzzy FOPID Controller Tuned by PSO for Pneumatic Positioning System. Energies, 2022, 15, 3757.	3.1	12
4	Design and Analysis of a Vertically Suspended Soft Manipulator. Lecture Notes in Mechanical Engineering, 2021, , 232-241.	0.4	1
5	Tracking Performance of Pneumatic Position Using Fractional-Order PIλDμ Controller. IOP Conference Series: Materials Science and Engineering, 2021, 1153, 012011.	0.6	3
6	Development of 4D Printed PLA Actuators with an Induced Internal Strain Upon Printing. , 2021, , .		5
7	Design, Fabrication, and Performance Analysis of a Vertically Suspended Soft Manipulator. International Journal of Automation Technology, 2021, 15, 696-705.	1.0	1
8	Classification of SARS-CoV-2 and non-SARS-CoV-2 using machine learning algorithms. Computers in Biology and Medicine, 2021, 136, 104650.	7.0	18
9	Pneumatic positioning control system using constrained model predictive controller: Experimental repeatability test. International Journal of Electrical and Computer Engineering, 2021, 11, 3913.	0.7	2
10	Electrospun Nanofiber and Cryogel of Polyvinyl Alcohol Transdermal Patch Containing Diclofenac Sodium: Preparation, Characterization and In Vitro Release Studies. Pharmaceutics, 2021, 13, 1900.	4.5	11
11	ARX, ARMAX, Box-Jenkins, Output-Error, and Hammerstein Models for Modeling Intelligent Pneumatic Actuator (IPA) System. Journal of Integrated and Advanced Engineering, 2021, 1, 81-88.	0.3	4
12	Characteristics of a Tendon Driven Soft Gate for Canal Flow Regulation. , 2020, , .		4
13	Segmentation of a Soft Body and its Bending Performance using Thin McKibben Muscle. International Journal of Automotive and Mechanical Engineering, 2020, 17, 7533-7541.	0.9	4
14	PDMS-based dual-channel pneumatic micro-actuator. Smart Materials and Structures, 2019, 28, 115044.	3.5	16
15	PDMS-based Dual-Channel Pneumatic Microactuator Using Sacrificial Molding Fabrication Technique. , 2019, , .		4
16	New Hydraulic Components for Tough Robots. Springer Tracts in Advanced Robotics, 2019, , 401-451.	0.4	4
17	Engineered Electrospun Polyurethane Composite Patch Combined with Bi-functional Components Rendering High Strength for Cardiac Tissue Engineering. Polymers, 2019, 11, 705.	4.5	14
18	System Identification and Model Predictive Control using CVXGEN for Electro-Hydraulic Actuator. International Journal of Integrated Engineering, 2019, 11, .	0.4	6

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19	Trends in hydraulic actuators and components in legged and tough robots: a review. Advanced Robotics, 2018, 32, 458-476.	1.8	54
20	Index Finger of a Human-Like Robotic Hand Using Thin Soft Muscles. IEEE Robotics and Automation Letters, 2018, 3, 92-99.	5.1	53
21	Long-Legged Hexapod Giacometti Robot Using Thin Soft McKibben Actuator. IEEE Robotics and Automation Letters, 2018, 3, 100-107.	5.1	26
22	Soft manipulator using thin McKibben actuator. , 2018, , .		16
23	Recursive Gauss-Seidel median filter for CT lung image denoising. , 2017, , .		0
24	Design, characterization, and manufacturing of circular bellows pneumatic soft actuator. International Journal of Advanced Manufacturing Technology, 2017, 93, 4295-4304.	3.0	20
25	Single segment actuator using shape memory alloy for three-directional bending endoscopic tip. Malaysian Journal of Fundamental and Applied Sciences, 2017, 13, 515-522.	0.8	1
26	Ultrasound imaging characterization on tissue mimicking materials for cardiac tissue phantom: Texture analysis perspective. Malaysian Journal of Fundamental and Applied Sciences, 2017, 13, 501-508.	0.8	0
27	Modeling and rotor field-oriented control of a faulty three-phase induction motor based on GSA for tuning of PI controllers. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 2084-2105.	1.4	5
28	Review of modelling and control of flexible-link manipulators. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 861-873.	1.0	58
29	Disturbance rejection using Model Predictive control for pneumatic actuator system. , 2016, , .		5
30	Thermomechanical behavior of bulk NiTi shape-memory-alloy microactuators based on bimorph actuation. Microsystem Technologies, 2016, 22, 2125-2131.	2.0	23
31	Modeling and Force Control of Thin Soft McKibben Actuator. International Journal of Automation Technology, 2016, 10, 487-493.	1.0	11
32	System identification and predictive functional control for electro-hydraulic actuator system. , 2015, , .		11
33	Design of unconstrained and constrained model predictive control for pneumatic actuator system: Set-point tracking. , 2015, , .		6
34	Design, simulation, and kinematic analysis of a manipulator-based 3D position tracking system. , 2015, , .		2
35	Intelligent pneumatic assisted therapy on ankle rehabilitation. , 2015, , .		6
36	NON-PARAMETRIC IDENTIFICATION TECHNIQUES FOR INTELLIGENT PNEUMATIC ACTUATOR. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0

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37	Development of ROV based Water Tank Cleaning Robot. Jurnal Teknologi (Sciences and Engineering), 2015, 72, .	0.4	2
38	Simulations of fiber braided bending actuator: Investigation on position of fiber layer placement and air chamber diameter. , 2015, , .		3
39	A new predictive control technique for force control of pneumatic actuator plant. , 2015, , .		2
40	Real-time gait phase detection using wearable sensors. , 2015, , .		1
41	Position Tracking Systems for Ultrasound Imaging: A Survey. Lecture Notes in Bioengineering, 2015, , 57-89.	0.4	6
42	Structural Analysis of Portable Repositioning Equipment for Bedridden Patients. Jurnal Teknologi (Sciences and Engineering), 2015, 72, .	0.4	1
43	PI Adaptive Neuro-Fuzzy and Receding Horizon Position Control for Intelligent Pneumatic Actuator. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	4
44	Integrating Servo-Pneumatic Actuator with Ball Beam System based on Intelligent Position Control. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	3
45	Characteristics of wireless technology for healthcare applications: An overview. , 2014, , .		0
46	Two chambers soft actuator realizing robotic gymnotiform swimmers fin. , 2014, , .		17
47	Development of a half sphere bending soft actuator for flexible bronchoscope movement. , 2014, , .		11
48	Task learning utilizing curve fitting method for kinect based humanoid robot. , 2014, , .		2
49	Position Tracking of Pneumatic Actuator with Loads by Using Predictive and Fuzzy Logic Controller. Advanced Materials Research, 2014, 903, 259-266.	0.3	5
50	System Identification and Embedded Controller Design for Pneumatic Actuator with Stiffness Characteristic. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	5
51	Position control of pneumatic actuator using an enhancement of NPID controller based on the characteristic of rate variation nonlinear gain. International Journal of Advanced Manufacturing Technology, 2014, 75, 181-195.	3.0	10
52	Experimental investigations of skin-like material and computation of its material properties. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1909-1914.	2.2	24
53	Apical four-chamber echocardiography segmentation using Marker-controlled Watershed segmentation. , 2014, , .		4
54	MODEL IDENTIFICATION AND CONTROLLER DESIGN FOR AN ELECTRO-PNEUMATIC ACTUATOR SYSTEM WITH DEAD ZONE COMPENSATION. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 798-819.	0.7	0

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55	Real-time position control of intelligent pneumatic actuator (IPA) system using optical encoder and pressure sensor. Sensor Review, 2013, 33, 341-351.	1.8	12
56	Application of optimization technique for PID controller tuning in position tracking of pneumatic actuator system. , 2013, , .		7
57	P-Adaptive Neuro-Fuzzy and PD-Fuzzy controller design for position control of a modified single acting pneumatic cylinder. , 2013, , .		13
58	3-D finite-element analysis of fiber-reinforced soft bending actuator for finger flexion. , 2013, , .		18
59	Identification and self-tuning control of electro-pneumatic actuator system with control valve. , 2013, , .		7
60	Predictive Functional Controller design for pneumatic actuator with stiffness characteristic. , 2013, , .		9
61	Linearized mathematical model of intelligent pneumatic actuator system: Position, force and viscosity controls. , 2013, , .		2
62	Proportional-integrative controller design of Pneumatic system using particle swarm optimization. , 2013, , .		5
63	Generalized predictive controller using Bat algorithm for double acting pneumatic cylinder. , 2013, , .		4
64	Determination of Non-Linear Material Constants of RTV Silicone Applied to a Soft Actuator for Robotic Applications. Key Engineering Materials, 2013, 594-595, 1099-1104.	0.4	9
65	Tracking performance and disturbance rejection of pneumatic actuator system. , 2013, , .		7
66	A fault-tolerant control scheme for a hovering underwater vehicle subject to region function formulation. , 2013, , .		1
67	Validation of Hierarchical Gene Clusters Using Repeated Measurements. Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Overl	0.4	0
68	PD-Fuzzy Logic Controller Design for Position Control of Intelligent Pneumatic Actuator System. Communications in Computer and Information Science, 2012, , 288-295.	0.5	4
69	Development of bending soft actuator with different braided angles. , 2012, , .		41
70	Controller Design for Simulation Control of Intelligent Pneumatic Actuators (IPA) System. Procedia Engineering, 2012, 41, 593-599.	1.2	15
71	System Identification model for an Intelligent Pneumatic Actuator (IPA) system. , 2012, , .		11
72	Nonlinear mathematical model of an Intelligent Pneumatic Actuator (IPA) systems: Position and force controls. , 2012, , .		11

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73	Stiffness and viscous coefficient characteristics for ergonomics chair design. , 2011, , .		1
74	Programmable System on Chip Distributed Communication and Control Approach for Human Adaptive Mechanical System. Journal of Computer Science, 2010, 6, 852-861.	0.6	10
75	Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. Advanced Robotics, 2010, 24, 1503-1528.	1.8	24
76	Development of Pneumatic Actuated Seating System to aid chair design. , 2010, , .		16
77	Development of Active 80-faced Polyhedron for haptic physical human-machine interface. , 2009, , .		3
78	Design and control of new intelligent pneumatic cylinder for intelligent chair tool application. , 2009, , .		11
79	Development of an Intelligent Pneumatic Cylinder for Distributed Physical Humanâ€"Machine Interaction. Advanced Robotics, 2009, 23, 203-225.	1.8	23
80	Distributed Physical Human Machine Interaction Using Intelligent Pneumatic Cylinders. , 2008, , .		14
81	Numerical Dynamic Analysis of a Single Link Soft Robot Finger. Applied Mechanics and Materials, 0, 459, 449-454.	0.2	6
82	Non-Linear Finite Element Analysis of Biologically Inspired Robotic Fin Actuated by Soft Actuators. Applied Mechanics and Materials, 0, 528, 272-277.	0.2	8
83	Engineered properties of polyurethane laden with beetroot and cerium oxide for cardiac patch application. Journal of Industrial Textiles, 0, , 152808372110542.	2.4	0