

# Ahmad Athif Mohd Faudzi

## List of Publications by Year in descending order

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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	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
2	Trends in hydraulic actuators and components in legged and tough robots: a review. Advanced Robotics, 2018, 32, 458-476.	1.8	54
3	Index Finger of a Human-Like Robotic Hand Using Thin Soft Muscles. IEEE Robotics and Automation Letters, 2018, 3, 92-99.	5.1	53
4	Development of bending soft actuator with different braided angles. , 2012, , .		41
5	A review on 3D printing in tissue engineering applications. Journal of Polymer Engineering, 2022, 42, 243-265.	1.4	29
6	Long-Legged Hexapod Giacometti Robot Using Thin Soft McKibben Actuator. IEEE Robotics and Automation Letters, 2018, 3, 100-107.	5.1	26
7	Development of an Intelligent Chair Tool System Applying New Intelligent Pneumatic Actuators. Advanced Robotics, 2010, 24, 1503-1528.	1.8	24
8	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
9	Development of an Intelligent Pneumatic Cylinder for Distributed Physical Human-Machine Interaction. Advanced Robotics, 2009, 23, 203-225.	1.8	23
10	Thermomechanical behavior of bulk NiTi shape-memory-alloy microactuators based on bimorph actuation. Microsystem Technologies, 2016, 22, 2125-2131.	2.0	23
11	Design, characterization, and manufacturing of circular bellows pneumatic soft actuator. International Journal of Advanced Manufacturing Technology, 2017, 93, 4295-4304.	3.0	20
12	3-D finite-element analysis of fiber-reinforced soft bending actuator for finger flexion. , 2013, , .		18
13	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
14	Two chambers soft actuator realizing robotic gymnotiform swimmers fin. , 2014, , .		17
15	Development of Pneumatic Actuated Seating System to aid chair design. , 2010, , .		16
16	Soft manipulator using thin McKibben actuator. , 2018, , .		16
17	PDMS-based dual-channel pneumatic micro-actuator. Smart Materials and Structures, 2019, 28, 115044.	3.5	16
18	Controller Design for Simulation Control of Intelligent Pneumatic Actuators (IPA) System. Procedia Engineering, 2012, 41, 593-599.	1.2	15

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19	Distributed Physical Human Machine Interaction Using Intelligent Pneumatic Cylinders. , 2008, , .		14
20	Engineered Electrospun Polyurethane Composite Patch Combined with Bi-functional Components Rendering High Strength for Cardiac Tissue Engineering. Polymers, 2019, 11, 705.	4.5	14
21	P-Adaptive Neuro-Fuzzy and PD-Fuzzy controller design for position control of a modified single acting pneumatic cylinder. , 2013, , .		13
22	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
23	Modeling and Fuzzy FOPID Controller Tuned by PSO for Pneumatic Positioning System. Energies, 2022, 15, 3757.	3.1	12
24	Design and control of new intelligent pneumatic cylinder for intelligent chair tool application. , 2009, , .		11
25	System Identification model for an Intelligent Pneumatic Actuator (IPA) system. , 2012, , .		11
26	Nonlinear mathematical model of an Intelligent Pneumatic Actuator (IPA) systems: Position and force controls. , 2012, , .		11
27	Development of a half sphere bending soft actuator for flexible bronchoscope movement. , 2014, , .		11
28	System identification and predictive functional control for electro-hydraulic actuator system. , 2015, , .		11
29	Modeling and Force Control of Thin Soft McKibben Actuator. International Journal of Automation Technology, 2016, 10, 487-493.	1.0	11
30	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
31	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
32	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
33	Predictive Functional Controller design for pneumatic actuator with stiffness characteristic. , 2013, , .		9
34	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
35	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
36	Application of optimization technique for PID controller tuning in position tracking of pneumatic actuator system. , 2013, , .		7

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37	Identification and self-tuning control of electro-pneumatic actuator system with control valve. , 2013, , .		7
38	Tracking performance and disturbance rejection of pneumatic actuator system. , 2013, , .		7
39	Numerical Dynamic Analysis of a Single Link Soft Robot Finger. Applied Mechanics and Materials, 0, 459, 449-454.	0.2	6
40	Design of unconstrained and constrained model predictive control for pneumatic actuator system: Set-point tracking. , 2015, , .		6
41	Intelligent pneumatic assisted therapy on ankle rehabilitation. , 2015, , .		6
42	Position Tracking Systems for Ultrasound Imaging: A Survey. Lecture Notes in Bioengineering, 2015, , 57-89.	0.4	6
43	System Identification and Model Predictive Control using CVXGEN for Electro-Hydraulic Actuator. International Journal of Integrated Engineering, 2019, 11, .	0.4	6
44	Proportional-integrative controller design of Pneumatic system using particle swarm optimization. , 2013, , .		5
45	Position Tracking of Pneumatic Actuator with Loads by Using Predictive and Fuzzy Logic Controller. Advanced Materials Research, 2014, 903, 259-266.	0.3	5
46	System Identification and Embedded Controller Design for Pneumatic Actuator with Stiffness Characteristic. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	5
47	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
48	Disturbance rejection using Model Predictive control for pneumatic actuator system. , 2016, , .		5
49	Development of 4D Printed PLA Actuators with an Induced Internal Strain Upon Printing. , 2021, , .		5
50	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
51	Generalized predictive controller using Bat algorithm for double acting pneumatic cylinder. , 2013, , .		4
52	PI Adaptive Neuro-Fuzzy and Receding Horizon Position Control for Intelligent Pneumatic Actuator. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	4
53	Apical four-chamber echocardiography segmentation using Marker-controlled Watershed segmentation. , 2014, , .		4
54	PDMS-based Dual-Channel Pneumatic Microactuator Using Sacrificial Molding Fabrication Technique. , 2019, , .		4

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55	New Hydraulic Components for Tough Robots. Springer Tracts in Advanced Robotics, 2019, , 401-451.	0.4	4
56	Characteristics of a Tendon Driven Soft Gate for Canal Flow Regulation. , 2020, , .		4
57	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
58	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
59	Development of Active 80-faced Polyhedron for haptic physical human-machine interface. , 2009, , .		3
60	Integrating Servo-Pneumatic Actuator with Ball Beam System based on Intelligent Position Control. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	3
61	Simulations of fiber braided bending actuator: Investigation on position of fiber layer placement and air chamber diameter. , 2015, , .		3
62	Tracking Performance of Pneumatic Position Using Fractional-Order $PI^{\lambda}D^{\mu}$ Controller. IOP Conference Series: Materials Science and Engineering, 2021, 1153, 012011.	0.6	3
63	Linearized mathematical model of intelligent pneumatic actuator system: Position, force and viscosity controls. , 2013, , .		2
64	Task learning utilizing curve fitting method for kinect based humanoid robot. , 2014, , .		2
65	Design, simulation, and kinematic analysis of a manipulator-based 3D position tracking system. , 2015, , .		2
66	Development of ROV based Water Tank Cleaning Robot. Jurnal Teknologi (Sciences and Engineering), 2015, 72, .	0.4	2
67	A new predictive control technique for force control of pneumatic actuator plant. , 2015, , .		2
68	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
69	Stiffness and viscous coefficient characteristics for ergonomics chair design. , 2011, , .		1
70	A fault-tolerant control scheme for a hovering underwater vehicle subject to region function formulation. , 2013, , .		1
71	Real-time gait phase detection using wearable sensors. , 2015, , .		1
72	Design and Analysis of a Vertically Suspended Soft Manipulator. Lecture Notes in Mechanical Engineering, 2021, , 232-241.	0.4	1

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73	Design, Fabrication, and Performance Analysis of a Vertically Suspended Soft Manipulator. International Journal of Automation Technology, 2021, 15, 696-705.	1.0	1
74	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
75	Structural Analysis of Portable Repositioning Equipment for Bedridden Patients. Jurnal Teknologi (Sciences and Engineering), 2015, 72, .	0.4	1
76	A Novel Approach for Reducing Actuators in Soft Continuum Robots and Manipulators. Lecture Notes in Networks and Systems, 2022, , 181-190.	0.7	1
77	Characteristics of wireless technology for healthcare applications: An overview. , 2014, , .		0
78	NON-PARAMETRIC IDENTIFICATION TECHNIQUES FOR INTELLIGENT PNEUMATIC ACTUATOR. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
79	Recursive Gauss-Seidel median filter for CT lung image denoising. , 2017, , .		0
80	Validation of Hierarchical Gene Clusters Using Repeated Measurements. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.4	0
81	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
82	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
83	Engineered properties of polyurethane laden with beetroot and cerium oxide for cardiac patch application. Journal of Industrial Textiles, 0, , 152808372110542.	2.4	0