Mohammad H Rahman

List of Publications by Year
in descending order

40 papers	500 citations	759233 12 h-index	713466 21 g-index
41 all docs	41 docs citations	41 times ranked	452 citing authors

#	Article	IF	Citations
1	Flatness Based Control of a Novel Smart Exoskeleton Robot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 974-984.	5.8	7
2	Predicting the handgrip strength across the age span: Cross-validating reference equations from the 2011 NIH toolbox norming study. Journal of Hand Therapy, 2022, 35, 131-141.	1.5	3
3	Understanding the nonlinear behavior of EEG with advanced machine learning in artifact elimination. Biomedical Physics and Engineering Express, 2022, 8, 015017.	1.2	1
4	The kinematic effects of simplifications in the analysis of linear translational parallel robots. International Journal of Dynamics and Control, 2022, 10, 1424-1441.	2.5	1
5	A Novel Framework for Mixed Realityâ€"Based Control of Collaborative Robot: Development Study. JMIR Biomedical Engineering, 2022, 7, e36734.	1.2	2
6	Robustness and Tracking Performance Evaluation of PID Motion Control of 7 DoF Anthropomorphic Exoskeleton Robot Assisted Upper Limb Rehabilitation. Sensors, 2022, 22, 3747.	3.8	12
7	Autonomous Exercise Generator for Upper Extremity Rehabilitation: A Fuzzy-Logic-Based Approach. Micromachines, 2022, 13, 842.	2.9	5
8	Hand Rehabilitation Devices: A Comprehensive Systematic Review. Micromachines, 2022, 13, 1033.	2.9	15
9	Trends in TC/HDL and LDL/HDL Ratios across the Age Span: Data from the 2007-2018 National Health and Nutrition Examination Survey (NHANES). Asian Journal of Complementary and Alternative Medicine, 2021, 9, .	0.1	1
10	Methodology for the Design of Parallel Robots Using Performance Atlases: The Case of the Linear Delta Parallel Robot. , 2021, , .		0
11	Inverse Kinematic solution of u-Rob4 an hybrid exoskeleton for stroke rehabilitation. , 2021, , .		4
12	Finger/Chin Joystick Control for Robotic Arms and Power Wheelchair Systems. Archives of Physical Medicine and Rehabilitation, 2021, 102, e84.	0.9	0
13	Rate of Change and Percent Rule of Grip Strength across the Life Span 6-80 Years Old. Archives of Physical Medicine and Rehabilitation, 2021, 102, e61.	0.9	0
14	Nose Tracking Assistive Robot Control for the People with Motor Dysfunctions. Archives of Physical Medicine and Rehabilitation, 2021, 102, e82-e83.	0.9	1
15	Health Disparities of TC/HDL and LDL/HDL Ratios: Data from 2007-2018 National Health and Nutrition Examination Survey (NHANES). Archives of Physical Medicine and Rehabilitation, 2021, 102, e59.	0.9	0
16	Investigating Reduced Path Planning Strategy for Differential Wheeled Mobile Robot. Robotica, 2020, 38, 235-255.	1.9	22
17	Improvement of sliding mode controller by using a new adaptive reaching law: Theory and experiment. ISA Transactions, 2020, 97, 261-268.	5.7	35
18	Adaptive Force and Position Control Based on Quasi-Time Delay Estimation of Exoskeleton Robot for Rehabilitation. IEEE Transactions on Control Systems Technology, 2020, 28, 2152-2163.	5.2	16

#	Article	IF	Citations
19	Trends in Lipoprotein TC/HDL, LDL/HDL Ratios in US 6-80 Years Old: Data from 2007-2018 National Health and Nutrition Examination Surveys (NHANES). Archives of Physical Medicine and Rehabilitation, 2020, 101, e87.	0.9	0
20	Influence of Race, Educational Level, Marital Status, Poverty, BMI, and General Health Condition on Lipoprotein TC/HDL Ratios: Data from 2007-2018 NHANES Study. Archives of Physical Medicine and Rehabilitation, 2020, 101, e88.	0.9	0
21	Psychometric evaluation of the disabilities of the arm, shoulder and hand (DASH) in patients with orthopedic shoulder impairments seeking outpatient rehabilitation. Journal of Hand Therapy, 2020, 34, 404-414.	1.5	3
22	Forward kinematic analysis of Dobot using closed-loop method. IAES International Journal of Robotics and Automation, 2020, 9, 153.	0.3	0
23	A performance based feature selection technique for subject independent MI based BCI. Health Information Science and Systems, 2019, 7, 15.	5.2	13
24	NAO robot for cooperative rehabilitation training. Journal of Rehabilitation and Assistive Technologies Engineering, 2019, 6, 205566831986215.	0.9	14
25	Cartesian Sliding Mode Control of an Upper Extremity Exoskeleton Robot for Rehabilitation. Studies in Systems, Decision and Control, 2019, , 201-220.	1.0	1
26	Between-side differences in hand-grip strength across the age span: Findings from 2011â€“2014 NHANES and 2011 NIH Toolbox studies. Laterality, 2019, 24, 697-706.	1.0	10
27	Biomechanics, actuation, and multi-level control strategies of power-augmentation lower extremity exoskeletons: an overview. International Journal of Dynamics and Control, 2019, 7, 1462-1488.	2.5	22
28	Novel adaptive iterative observer based on integral backstepping control of a wearable robotic exoskeleton. International Journal of Computer Applications in Technology, 2019, 60, 154.	0.5	0
29	Cartesian Trajectory Tracking of a 7-DOF Exoskeleton Robot Based on Human Inverse Kinematics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 600-611.	9.3	56
30	Novel adaptive iterative observer based on integral backstepping control of a wearable robotic exoskeleton. International Journal of Computer Applications in Technology, 2019, 60, 154.	0.5	0
31	Adaptive control of a 7-DOF exoskeleton robot with uncertainties on kinematics and dynamics. European Journal of Control, 2018, 42, 77-87.	2.6	24
32	Adaptive control of Upper Limb Exoskeleton Robot Based on a New Modified Function Approximation Technique (FAT). , 2018, , .		0
33	Passive and active rehabilitation control of human upper-limb exoskeleton robot with dynamic uncertainties. Robotica, 2018, 36, 1757-1779.	1.9	31
34	Control of Serial Link Manipulator Using a Fractional Order Controller. International Review of Automatic Control, 2018, 11, 29.	0.3	2
35	Adaptive control of an exoskeleton robot with uncertainties on kinematics and dynamics. , 2017, 2017, 1369-1374.		15
36	EMG Based Control of a Robotic Exoskeleton for Shoulder and Elbow Motion Assist. Journal of Automation and Control Engineering, 2015, , 270-276.	0.3	37

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37	Control of an exoskeleton robot arm with sliding mode exponential reaching law. International Journal of Control, Automation and Systems, 2013, 11, 92-104.	2.7	98
38	Development of a 4DoFs exoskeleton robot for passive arm movement assistance. International Journal of Mechatronics and Automation, 2012, 2, 34.	0.2	23
39	Tele-operation of a robotic exoskeleton for rehabilitation and passive arm movement assistance. , 2011, , .		17
40	Control of a powered exoskeleton for elbow, forearm and wrist joint movements. , 2011, , .		9