

# Abdul Rashid Husain

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

803  
citations

623734

14  
h-index

580821

25  
g-index

76  
all docs

76  
docs citations

76  
times ranked

660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved unity magnitude input shaping scheme for sway control of an underactuated 3D overhead crane with hoisting. <i>Mechanical Systems and Signal Processing</i> , 2019, 123, 466-482.	8.0	86
2	Enhanced Backstepping Controller Design with Application to Autonomous Quadrotor Unmanned Aerial Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015, 79, 295-321.	3.4	73
3	Intelligent adaptive backstepping control for MIMO uncertain non-linear quadrotor helicopter systems. <i>Transactions of the Institute of Measurement and Control</i> , 2015, 37, 345-361.	1.7	51
4	Dynamic Model and Robust Control of Flexible Link Robot Manipulator. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2011, 9, 279.	0.8	46
5	Control of a gantry crane using input-shaping schemes with distributed delay. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 361-370.	1.7	39
6	Linear matrix inequality-based robust proportional derivative control of a two-link flexible manipulator. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 1244-1256.	2.6	33
7	Dynamic Modelling and Characterisation of a Two-Link Flexible Robot Manipulator. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2010, 29, 207-219.	2.9	31
8	Efficient control of a nonlinear double-pendulum overhead crane with sensorless payload motion using an improved PSO-tuned PID controller. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 907-921.	2.6	29
9	A Particle Swarm Optimization Approach to Robotic Drill Route Optimization. , 2010, , .		25
10	Payload swing control of a tower crane using a neural networkâ€‘based input shaper. <i>Measurement and Control</i> , 2020, 53, 1171-1182.	1.8	25
11	Error Handling Algorithm and Probabilistic Analysis Under Fault for CAN-Based Steer-by-Wire System. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1017-1034.	11.3	23
12	Robust Position Tracking Control of an Electro-Hydraulic Actuator in the Presence of Friction and Internal Leakage. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 2965-2978.	1.1	20
13	Stabilization and trajectory tracking control for underactuated quadrotor helicopter subject to wind-gust disturbance. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015, 40, 1531-1553.	1.3	18
14	Adaptive PID actuator fault tolerant control of single-link flexible manipulator. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1019-1031.	1.7	17
15	Disturbance observer-based formation tracking control of multiple quadrotors in the presence of disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 4129-4141.	1.7	17
16	Predictive Flux Control for Induction Motor Drives With Modified Disturbance Observer for Improved Transient Response. <i>IEEE Access</i> , 2020, 8, 112484-112495.	4.2	17
17	Robust precision control for a class of electro-hydraulic actuator system based on disturbance observer. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1753-1760.	2.2	15
18	A new error handling algorithm for controller area network in networked control system. <i>Computers in Industry</i> , 2013, 64, 984-997.	9.9	12

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19	A hybrid optimal backstepping and adaptive fuzzy control for autonomous quadrotor helicopter with time-varying disturbance. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2178-2195.	1.3	12
20	Controller Synthesis for Steer-by-Wire System Performance in Vehicle. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 813-825.	2.3	12
21	A modified computational model of ant colony system in DNA sequence design. , 2011, , .		10
22	Trajectory tracking of steering system mobile robot. , 2011, , .		9
23	Observer-Based Output Feedback Control with Linear Quadratic Performance. Procedia Engineering, 2013, 53, 233-240.	1.2	9
24	Development of Low-Cost Microcontroller-Based Interface for Data Acquisition and Control of Microbioreactor Operation. Journal of the Association for Laboratory Automation, 2016, 21, 660-670.	2.8	9
25	Continuous dynamic sliding mode control strategy of PWM based voltage source inverter under load variations. PLoS ONE, 2020, 15, e0228636.	2.5	9
26	Performance Comparison of Particle Swarm Optimization and Gravitational Search Algorithm to the Designed of Controller for Nonlinear System. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.9	8
27	GSA-based optimal backstepping controller with a fuzzy compensator for robust control of an autonomous quadrotor UAV. Aircraft Engineering and Aerospace Technology, 2015, 87, 493-505.	0.8	8
28	System Identification and LMI Based Robust PID Control of a Two-Link Flexible Manipulator. Telkomnika (Telecommunication Computing Electronics and Control), 2014, 12, 829.	0.8	8
29	Control of uncertain nonlinear systems using mixed nonlinear damping function and backstepping techniques. , 2012, , .		7
30	Switching between formations for multiple mobile robots via synchronous controller. , 2012, , .		7
31	Lyapunov-Krasovskii stability condition for system with bounded delay - An application to steer-by-wire system. , 2015, , .		7
32	Delay-dependent robust anti-windup synthesis approach to AQM in TCP/IP networks. , 2016, , .		7
33	Analysis of Online Lyapunov-Based Adaptive State of Charge Observer for Lithium-Ion Batteries Under Low Excitation Level. IEEE Access, 2020, 8, 178805-178815.	4.2	7
34	Profiling and analysis of control rod speed design on core power control for TRIGA reactor. Progress in Nuclear Energy, 2020, 128, 103481.	2.9	7
35	Multiple Nonholonomic Wheeled Mobile Robots Trajectory Tracking While Maintaining Time-Varying Formation via Synchronous Controller. Procedia Engineering, 2012, 41, 1044-1050.	1.2	5
36	Asymptotic Tracking Position Control for Nonlinear Systems using Backstepping Technique. Procedia Engineering, 2013, 53, 255-263.	1.2	5

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37	Deterministic Models of an Active Magnetic Bearing System. Journal of Computers, 2007, 2, .	0.4	5
38	A computationally efficient adaptive online state-of-charge observer for Lithium-ion battery for electric vehicle. Journal of Energy Storage, 2022, 49, 104141.	8.1	5
39	Modeling of a Horizontal Active Magnetic Bearing System with Uncertainties in Deterministic Form. , 2007, , .		4
40	ANFIS modeling and Direct ANFIS Inverse control of an Electro-Hydraulic Actuator system. , 2013, , .		4
41	Formation control of multiple mobile robots utilising synchronisation approach. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 94.	0.1	4
42	FAULT TOLERANT CONTROL FOR SENSOR FAULT OF A SINGLE-LINK FLEXIBLE MANIPULATOR SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	4
43	Time varying backstepping control for trajectory tracking of mobile robot. International Journal of Computational Vision and Robotics, 2017, 7, 172.	0.3	4
44	Robust Backstepping Tracking Control of Mobile Robot Based on Nonlinear Disturbance Observer. International Journal of Electrical and Computer Engineering, 2016, 6, 901.	0.7	4
45	Robust Backstepping Tracking Control of Mobile Robot Based on Nonlinear Disturbance Observer. International Journal of Electrical and Computer Engineering, 2016, 6, 901.	0.7	4
46	Static sliding mode controller for permanent magnet stepper motor with disturbances. , 2011, , .		3
47	Sliding mode control with switching-gain adaptation based-disturbance observer applied to an electro-hydraulic actuator system. , 2013, , .		3
48	An analysis of CAN-based steer-by-wire system performance in vehicle. , 2013, , .		3
49	Fuzzy supervisory backstepping controller for stabilization of quadrotor unmanned aerial vehicle. , 2014, , .		3
50	Robust Control Design of Nonlinear System via Backstepping-PSO with Sliding Mode Techniques. Communications in Computer and Information Science, 2017, , 27-37.	0.5	3
51	Model and Analysis of Wind Speed Profile using Artificial Neural Network - Feasibility Study in Peninsular Malaysia. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	3
52	A Review on Fault-Tolerant Control for Single-Link Flexible Manipulator System. Applied Mechanics and Materials, 0, 229-231, 2389-2393.	0.2	2
53	Variable Speed Wind Turbine with External Stiffness and Rotor Deviation Observer. Applied Mechanics and Materials, 0, 661, 154-159.	0.2	2
54	ANFIS modeling of Electro-Hydraulic Actuator system through physical modeling and FCM gap statistic in initial FIS determination. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1743-1755.	1.4	2

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55	A multipronged core power control strategy for Reaktor TRIGA PUSPATI. IOP Conference Series: Materials Science and Engineering, 2021, 1106, 012001.	0.6	2
56	Effective Formation Tracking of Quadrotors with Intelligent Disturbance Observer-Based Control. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 761-776.	2.3	2
57	On the design of output feedback sliding mode control for a class of uncertain system. , 2011, , .		1
58	Switching Between Formation in a Moving Shape for Multi-Robots via Synchronization Approach. Procedia Engineering, 2012, 41, 678-684.	1.2	1
59	An Approach to Brain Tumor MR Image Detection and Classification using Neuro Fuzzy. Jurnal Teknologi (Sciences and Engineering), 2013, 61, .	0.4	1
60	Intelligent Sliding Mode Controller for Active Suspension System Using Particle Swarm Optimization. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	1
61	Nonlinear stabilization with bounded controller. , 2015, , .		1
62	A time-varying saturated synchronous formation controller for nonholonomic mobile robots. , 2015, , .		1
63	Stabilization of Nonlinear Steer-by-Wire System via LMI-Based State Feedback. Communications in Computer and Information Science, 2017, , 668-684.	0.5	1
64	Optimal Formation Control of Multiple Quadrotors Based on Particle Swarm Optimization. Communications in Computer and Information Science, 2017, , 121-135.	0.5	1
65	Computationally efficient predictive torque control for induction motor drives based on flux positional errors and extended Kalman filter. IET Electric Power Applications, 2021, 15, 653-667.	1.8	1
66	Modified model predictive torque control for induction motors with improved robustness against mutual inductance mismatching. International Transactions on Electrical Energy Systems, 2021, 31, e12927.	1.9	1
67	Synchronizing Multi-robots in Switching between Different Formations Tasks While Tracking a Line. Communications in Computer and Information Science, 2012, , 28-36.	0.5	1
68	A Universal Formula for Asymptotic Stabilization with Bounded Controls. International Journal of Electrical and Computer Engineering, 2015, 5, 111.	0.7	1
69	Model predictive and fuzzy logic controllers for reactor power control at Reaktor TRIGA PUSPATI. IOP Conference Series: Materials Science and Engineering, 2022, 1231, 012001.	0.6	1
70	A new method for controlling an induction motor using a hybrid discretization model predictive field orientated control. PLoS ONE, 2022, 17, e0267459.	2.5	1
71	An adaptive control of two wheel inverted pendulum robot based on particle swarm optimization. , 2011, , .		0
72	Analysis of CAN-based 2-DOF SCARA robot performance under work control. , 2014, , .		0

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73	An analysis of X-Y table performance via input shaping. , 2014, , .		0
74	APPLICATION OF MATLAB-BASED INTERFACE FOR THE CONTROL OF MICROBIOREACTOR OPERATION. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.4	0
75	Time varying backstepping control for trajectory tracking of mobile robot. International Journal of Computational Vision and Robotics, 2017, 7, 172.	0.3	0
76	Trajectory Tracking of a Quadrotor with Disturbance Rejection using Extended State Observer. , 2020, , .		0