Z Mohamed

List of Publications by Year
in descending order

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106 papers	2,368 citations	257450 24 h-index	233421 45 g-index
108 all docs	108 docs citations	108 times ranked	1108 citing authors

#	Article	IF	Citations
1	Control strategies for crane systems: A comprehensive review. Mechanical Systems and Signal Processing, 2017, 95, 1-23.	8.0	270
2	Vibration control of a very flexible manipulator system. Control Engineering Practice, 2005, 13, 267-277.	5.5	120
3	Command shaping techniques for vibration control of a flexible robot manipulator. Mechatronics, 2004, 14, 69-90.	3.3	110
4	A neural network-based input shaping for swing suppression of an overhead crane under payload hoisting and mass variations. Mechanical Systems and Signal Processing, 2018, 107, 484-501.	8.0	110
5	Approaches for dynamic modelling of flexible manipulator systems. IET Control Theory and Applications, 2003, 150, 401-411.	1.7	102
6	An optimal performance control scheme for a 3D crane. Mechanical Systems and Signal Processing, 2016, 66-67, 756-768.	8.0	87
7	An improved input shaping design for an efficient sway control of a nonlinear 3D overhead crane with friction. Mechanical Systems and Signal Processing, 2017, 92, 364-378.	8.0	86
8	Improved unity magnitude input shaping scheme for sway control of an underactuated 3D overhead crane with hoisting. Mechanical Systems and Signal Processing, 2019, 123, 466-482.	8.0	86
9	Model reference command shaping for vibration control of multimode flexible systems with application to a double-pendulum overhead crane. Mechanical Systems and Signal Processing, 2019, 115, 677-695.	8.0	82
10	Adaptive output-based command shaping for sway control of a 3D overhead crane with payload hoisting and wind disturbance. Mechanical Systems and Signal Processing, 2018, 98, 157-172.	8.0	67
11	Multi-objective path planner for an agricultural mobile robot in a virtual greenhouse environment. Computers and Electronics in Agriculture, 2019, 157, 488-499.	7.7	62
12	Dynamic characterisation of a flexible manipulator system. Robotica, 2001, 19, 571-580.	1.9	59
13	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
14	Efficient swing control of an overhead crane with simultaneous payload hoisting and external disturbances. Mechanical Systems and Signal Processing, 2020, 135, 106326.	8.0	56
15	Hybrid learning control schemes with input shaping of a flexible manipulator system. Mechatronics, 2006, 16, 209-219.	3.3	46
16	Dynamic Model and Robust Control of Flexible Link Robot Manipulator. Telkomnika (Telecommunication Computing Electronics and Control), 2011, 9, 279.	0.8	46
17	Vibration control of a single-link flexible manipulator using command shaping techniques. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2002, 216, 191-210.	1.0	39
18	Control of a gantry crane using input-shaping schemes with distributed delay. Transactions of the Institute of Measurement and Control, 2017, 39, 361-370.	1.7	39

#	Article	IF	Citations
19	Techniques for vibration control of a flexible robot manipulator. Robotica, 2006, 24, 499-511.	1.9	36
20	Control of an underactuated double-pendulum overhead crane using improved model reference command shaping: Design, simulation and experiment. Mechanical Systems and Signal Processing, 2021, 151, 107358.	8.0	36
21	PSO-tuned PID controller for a nonlinear gantry crane system. , 2012, , .		33
22	Linear matrix inequality-based robust proportional derivative control of a two-link flexible manipulator. JVC/Journal of Vibration and Control, 2016, 22, 1244-1256.	2.6	33
23	Modelling and PSO Fine-tuned PID Control of Quadrotor UAV. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 1367.	0.4	33
24	Dynamic Modelling and Characterisation of a Two-Link Flexible Robot Manipulator. Journal of Low Frequency Noise Vibration and Active Control, 2010, 29, 207-219.	2.9	31
25	Efficient control of a nonlinear double-pendulum overhead crane with sensorless payload motion using an improved PSO-tuned PID controller. JVC/Journal of Vibration and Control, 2019, 25, 907-921.	2.6	29
26	Efficient control of a 3D overhead crane with simultaneous payload hoisting and wind disturbance: design, simulation and experiment. Mechanical Systems and Signal Processing, 2020, 145, 106893.	8.0	25
27	Payload swing control of a tower crane using a neural networkâ€“based input shaper. Measurement and Control, 2020, 53, 1171-1182.	1.8	25
28	Dynamic Behaviour of a Nonlinear Gantry Crane System. Procedia Technology, 2013, 11, 419-425.	1.1	24
29	Hybrid vibration and rest-to-rest control of a two-link flexible robotic arm using Hâˆž loop-shaping control design. Engineering Computations, 2016, 33, .	1.4	24
30	Dual boundary conditional integral backstepping control of a twin rotor MIMO system. Journal of the Franklin Institute, 2017, 354, 6831-6854.	3.4	23
31	Finite difference and finite element approaches to dynamic modelling of a flexible manipulator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 1997, 211, 145-156.	1.0	21
32	Output-based command shaping technique for an effective payload sway control of a 3D crane with hoisting. Transactions of the Institute of Measurement and Control, 2017, 39, 1443-1453.	1.7	20
33	Input shaping with an adaptive scheme for swing control of an underactuated tower crane under payload hoisting and mass variations. Mechanical Systems and Signal Processing, 2022, 175, 109106.	8.0	20
34	Dynamic modelling of a two-link flexible manipulator system incorporating payload. , 2008, , .		17
35	Hybrid Input Shaping and Feedback Control Schemes of a Flexible Robot Manipulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11714-11719.	0.4	17
36	Bluetooth-Based Home Automation System Using an Android Phone. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	17

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37	Adaptive PID actuator fault tolerant control of single-link flexible manipulator. Transactions of the Institute of Measurement and Control, 2019, 41, 1019-1031.	1.7	17
38	Disturbance observer-based formation tracking control of multiple quadrotors in the presence of disturbances. Transactions of the Institute of Measurement and Control, 2019, 41, 4129-4141.	1.7	17
39	Sensor Fusion for Attitude Estimation and PID Control of Quadrotor UAV. International Journal of Electrical and Electronic Engineering and Telecommunications, 2018, , 183-189.	3.6	17
40	Optimal tuning of PID+PD controller by PFS for Gantry Crane System. , 2015, , .		15
41	Simulation and experimental study on PID control of a quadrotor MAV with perturbation. Bulletin of Electrical Engineering and Informatics, 2020, 9, 1811-1818.	0.8	14
42	Input Shaping Techniques for Anti-sway Control of a 3-DOF Rotary Crane System. , 2013, , .		13
43	Grey-box modelling and fuzzy logic control of a Leaderâ€“Follower robot manipulator system: A hybrid Grey Wolfâ€“Whale Optimisation approach. ISA Transactions, 2022, 129, 572-593.	5.7	13
44	Finite element approach to dynamic modelling of a flexible robot manipulator: performance evaluation and computational requirements. Communications in Numerical Methods in Engineering, 1999, 15, 669-678.	1.3	12
45	Dynamic Modelling of a Flexible Manipulator System Incorporating Payload: Theory and Experiments. Journal of Low Frequency Noise Vibration and Active Control, 2000, 19, 209-229.	2.9	12
46	Improved integral backstepping control of variable speed motion systems with application to a laboratory helicopter. ISA Transactions, 2020, 97, 1-13.	5.7	11
47	Optimal Performance of a Nonlinear Gantry Crane System via Priority-based Fitness Scheme in Binary PSO Algorithm. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012011.	0.6	10
48	Sensor Fusion Algorithm by Complementary Filter for Attitude Estimation of Quadrotor with Low-Cost IMU. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 868.	0.8	10
49	Dynamic characterisation of a two-link flexible manipulator: theory and experiments. Advances in Robotics Research, 2014, 1, 61-79.	0.1	9
50	An experiment for position and sway control of a 3D gantry crane. , 2012, , .		8
51	Optimal PID controller parameters for nonlinear gantry crane system via MOPSO technique. , 2013, , .		8
52	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
53	Solving an Agricultural Robot Routing Problem with Binary Particle Swarm Optimization and a Genetic Algorithm. International Journal of Mechanical Engineering and Robotics Research, 2018, , 521-527.	1.0	8
54	Dynamic Hysteresis Based Modeling Of Piezoelectric Actuators. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.4	7

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55	Optimal Composite Nonlinear Feedback Controller for an Active Front Steering System. Applied Mechanics and Materials, 0, 554, 526-530.	0.2	7
56	A hybrid control approach for precise positioning of a piezo-actuated stage. , 2014, , .		7
57	Development of an autonomous crop inspection mobile robot system. , 2015, , .		7
58	Lyapunov-Krasovskii stability condition for system with bounded delay - An application to steer-by-wire system. , 2015, , .		7
59	Composite Nonlinear Feedback Control with Multi-objective Particle Swarm Optimization for Active Front Steering System. Jurnal Teknologi (Sciences and Engineering), 2015, 72, .	0.4	7
60	VELOCITY CONTROL OF A UNICYCLE TYPE OF MOBILE ROBOT USING OPTIMAL PID CONTROLLER. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	7
61	INPUT SHAPING TECHNIQUES FOR SWAY CONTROL OF A ROTARY CRANE SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2017, 80, .	0.4	7
62	Optimization of pid controllers for a flexible robot manipulator using metamodeling approach. , 2008, , .		6
63	Fuzzy modeling and control of rotary inverted pendulum system using LQR technique. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012009.	0.6	6
64	Hybrid PSO-Tuned PID and Hysteresis-Observer Based Control for Piezoelectric Micropositioning Stages. , 2019, , .		6
65	Inverse dynamic analysis with feedback control for vibration-free positioning of a gantry crane system. , 2008, , .		5
66	Enhanced backstepping sliding mode controller for motion tracking of a nonlinear 2-DOF piezo-actuated micromanipulation system. Microsystem Technologies, 2019, 25, 3765-3777.	2.0	5
67	OUTPUT BASED INPUT SHAPING FOR OPTIMAL CONTROL OF SINGLE LINK FLEXIBLE MANIPULATOR. International Journal on Smart Sensing and Intelligent Systems, 2017, 10, 1-20.	0.7	5
68	Sliding mode control for altitude and attitude stabilization of quadrotor UAV with external disturbance. Indonesian Journal of Electrical Engineering and Informatics, 2019, 7, .	0.3	5
69	Modelling of a Flexible Robot Manipulator Using Finite Element Methods: A Symbolic Approach. Journal of Low Frequency Noise Vibration and Active Control, 1999, 18, 63-76.	2.9	4
70	Hybrid control schemes for input tracking and vibration suppression of a flexible manipulator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2003, 217, 23-34.	1.0	4
71	A Hybrid Controller for Control of a 3-DOF Rotary Crane System. , 2013, , .		4
72	Resonant Control of a Single-Link Flexible Manipulator. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	4

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73	Performance Analysis for a Gantry Crane System (GCS) Using Priority-Based Fitness Scheme in Binary Particle Swarm Optimization. Advanced Materials Research, 0, 903, 285-290.	0.3	4
74	Adaptive input shaping for sway control of 3D crane using a pole-zero cancellation method. , 2015, , .		4
75	FAULT TOLERANT CONTROL FOR SENSOR FAULT OF A SINGLE-LINK FLEXIBLE MANIPULATOR SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	4
76	Vibration control of pitch movement using command shaping techniques. , 0, , .		3
77	Vibration Suppression Techniques in Feedback Control of a Very Flexible Robot Manipulator. , 2008, , .		3
78	Improved input shaping technique for a nonlinear system. , 2014, , .		3
79	An improved topology model for two-vehicle look-ahead and rear-vehicle convoy control. , 2017, , .		3
80	Vibration Control of a Nonlinear Double-Pendulum Overhead Crane Using Feedforward Command Shaping. , 2018, , .		3
81	VIBRATION INDUCED FAILURE ANALYSIS OF A HIGH SPEED ROTOR SUPPORTED BY ACTIVE MAGNETIC BEARINGS. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 855-866.	0.8	3
82	Hybrid control schemes for input tracking and vibration suppression of a flexible manipulator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2003, 217, 23-34.	1.0	3
83	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
84	Dynamic characterisation of a flexible manipulator system: theory and experiments. , 0, , .		2
85	Techniques of vibration and end-point trajectory control of flexible manipulator. , 2009, , .		2
86	LMI-based state feedback controller design for vibration control of a negative imaginary system. , 2015, , .		2
87	Intelligent control of capillary irrigation system for water-saving cultivation. , 2015, , .		2
88	Optimal composite nonlinear feedback with multi-objective genetic algorithm for active front steering system. , 2015, , .		2
89	Comparative assessment of anti-sway control strategy for tower crane system. AIP Conference Proceedings, 2017, , .	0.4	2
90	Principal vibration modes of a rigid-flexible manipulator. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
91	2-step integral backstepping control of the two-rotor aero-dynamical system (TRAS). Journal of Fundamental and Applied Sciences, 2018, 9, 395.	0.2	2
92	Nonlinear stabilization with bounded controller. , 2015, , .		1
93	A Comparison of Particle Swarm Optimization and Genetic Algorithm Based on Multi-objective Approach for Optimal Composite Nonlinear Feedback Control of Vehicle Stability System. Communications in Computer and Information Science, 2016, , 652-662.	0.5	1
94	Performance Of Hybrid Learning Control With Input Shaping For Input Tracking And Vibration Suppression Of A Flexible Manipulator. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	1
95	STABILITY ANALYSIS AND VIBRATION CONTROL OF A CLASS OF NEGATIVE IMAGINARY SYSTEMS. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	1
96	A Universal Formula for Asymptotic Stabilization with Bounded Controls. International Journal of Electrical and Computer Engineering, 2015, 5, 111.	0.7	1
97	Effect of Beam's Length on the Dynamic Modelling of Flexible Manipulator System. , 2009, , .		0
98	An analysis of X-Y table performance via input shaping. , 2014, , .		0
99	LOCALIZATION AND MOTION CONTROL IMPLEMENTATION FOR AN AGRICULTURAL MOBILE ROBOT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	0
100	Hybrid Learning Control With Input Shaping for Input Tracking and Vibration Suppression of a Flexible Manipulator. , 2004, , .		0
101	Simulation and Experimental Studies of Hybrid Learning Control with Acceleration Feedback for Flexible Manipulators. , 2006, , 567-574.		0
102	The Investigations of Command Shaping and Non-Collocated PID Schemes in Hybrid Trajectory and Sway Control of a DPTOC System. Research Journal of Applied Sciences, 2010, 5, 320-327.	0.1	0
103	The Application Of Computer Algebra In Modelling And Vibration Control Of A Flexible Manipulator. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	0
104	Anti-Sway Control Schemes of a Boom Crane Using Command Shaping Techniques. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	0
105	Active Sway Control of a Gantry Crane by an Electrical Ducted Fan. International Journal of Acoustics and Vibrations, 2015, 20, .	0.3	0
106	NEGATIVE IMAGINARY THEOREM WITH AN APPLICATION TO ROBUST CONTROL OF A CRANE SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0