

Abdullah Al Mamun

List of Publications by Year in descending order

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56
papers

766
citations

566801

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552369

26
g-index

56
all docs

56
docs citations

56
times ranked

702
citing authors

#	ARTICLE	IF	CITATIONS
1	Weighted locally linear embedding for dimension reduction. Pattern Recognition, 2009, 42, 798-811.	5.1	92
2	Regional ocean wave height prediction using sequential learning neural networks. Ocean Engineering, 2017, 129, 605-612.	1.9	91
3	Ocean wave height prediction using ensemble of Extreme Learning Machine. Neurocomputing, 2018, 277, 12-20.	3.5	69
4	Boundary Following and Globally Convergent Path Planning Using Instant Goals. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 240-254.	5.5	59
5	Integrated Mechatronic Design in the Flexure-Linked Dual-Drive Gantry by Constrained Linear Quadratic Optimization. IEEE Transactions on Industrial Electronics, 2018, 65, 2408-2418.	5.2	56
6	Sensor-based path planning for nonholonomic mobile robots subject to dynamic constraints. Robotics and Autonomous Systems, 2007, 55, 513-526.	3.0	40
7	A Demodulation Technique for Spindle Rotor Position Detection With Resolver. IEEE Transactions on Magnetics, 2013, 49, 2614-2619.	1.2	31
8	Hierarchical Incremental Path Planning and Situation-Dependent Optimized Dynamic Motion Planning Considering Accelerations. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1541-1554.	5.5	27
9	Parameter space optimization towards integrated mechatronic design for uncertain systems with generalized feedback constraints. Automatica, 2019, 105, 149-158.	3.0	25
10	A novel constrained H ₂ optimization algorithm for mechatronics design in flexure-linked biaxial gantry. ISA Transactions, 2017, 71, 467-479.	3.1	24
11	Robust Decentralized Controller Synthesis in Flexure-Linked H-Gantry by Iterative Linear Programming. IEEE Transactions on Industrial Informatics, 2019, 15, 1698-1708.	7.2	24
12	Design and Implementation of Feedback Resonance Compensator in Hard Disk Drive Servo System: A Mixed Passivity, Negative-Imaginary and Small-Gain Approach in Discrete Time. Journal of Control, Automation and Electrical Systems, 2015, 26, 390-402.	1.2	20
13	A constrained linear quadratic optimization algorithm toward jerk-decoupling cartridge design. Journal of the Franklin Institute, 2017, 354, 479-500.	1.9	20
14	Development of a Spherical Air Bearing Positioning System. IEEE Transactions on Industrial Electronics, 2012, 59, 3501-3509.	5.2	18
15	Ocean wave characteristics prediction and its load estimation on marine structures: A transfer learning approach. Marine Structures, 2018, 61, 202-219.	1.6	18
16	Line Tracking of the Gyrobot - a Gyroscopically Stabilized Single-Wheeled Robot. , 2006, , .		13
17	Incline Unbalanced Magnetic Pull Induced by Misalignment Rotor in PMSM. IEEE Transactions on Magnetics, 2013, 49, 2709-2714.	1.2	13
18	Dual-Stage Nanopositioning Scheme for 10 Tbit/in ² Hard Disk Drives With a Shear-Mode Piezoelectric Single-Crystal Microactuator. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	13

#	ARTICLE	IF	CITATIONS
19	Rate dependent direct inverse hysteresis compensation of piezoelectric micro-actuator used in dual-stage hard disk drive head positioning system. Review of Scientific Instruments, 2015, 86, 085002.	0.6	9
20	Discrete time adaptive controller for suppression of resonance in hard disk drive servo system. International Journal of Control, Automation and Systems, 2015, 13, 1161-1172.	1.6	9
21	Pendulum-balanced autonomous unicycle: Conceptual design and dynamics model. , 2011, , .		8
22	Adaptive robust controller using intelligent uncertainty observer for mechanical systems under non-holonomic reference trajectories. ISA Transactions, 2022, 122, 79-87.	3.1	8
23	Detection of Epileptic Spike-Wave Discharges Using SVM. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	7
24	Particle swarm optimization based modeling and compensation of hysteresis of PZT micro-actuator used in high precision dual-stage servo system. , 2014, , .		7
25	Analysis and modeling of hysteresis of piezoelectric micro-actuator used in high precision dual-stage servo system. Control Theory and Technology, 2015, 13, 184-203.	1.0	7
26	Optimal decentralized control approach toward integrated design of controller and jerk-decoupling cartridge. , 2016, , .		6
27	Feedforward Compensation for Suppression of Seam Boundary Error Propagation in Robotic Welding Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1919-1929.	3.7	6
28	Dynamic modeling and characteristics analysis of lateral-pendulum unicycle robot. Robotica, 2017, 35, 537-568.	1.3	5
29	Robotic welding for filling shape-varying geometry using weld profile control with data-driven fast input allocation. Mechatronics, 2021, 79, 102657.	2.0	5
30	Discrete-time model predictive control for head-positioning servomechanism in a dual-stage hard disk drive. , 2014, , .		4
31	A constrained linear quadratic optimization approach to jerk decoupling cartridge design for vibration suppression. , 2015, , .		4
32	Incremental Path Planning Using Partial Map Information for Mobile Robots. , 2006, , .		3
33	Steering control of automatic lateral-pendulum unicycle by separate set-point controls of its longitudinal and lateral modes. , 2013, , .		3
34	Generalized Iterative Super-Twisting Sliding Mode Control: A Case Study on Flexure-Joint Dual-Drive H-Gantry Stage. , 2021, , .		3
35	Polar Polynomial Curve for Smooth, Collision-free Path Generation Between Two Arbitrary Configurations for Nonholonomic Robots. , 2007, , .		2
36	A memetic evolutionary search algorithm with variable length chromosome for rule extraction. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2

#	ARTICLE	IF	CITATIONS
37	Development of real-time control system for single-wheeled inverted pendulum platform. , 2011, , .		2
38	Properties of lateral-pendulum-controlled unicycle robot in states of balance and motion. , 2013, , .		2
39	Gain-scheduling-based control structure for steering of lateral-pendulum unicycle robot — Part 2: Cascade form. , 2014, , .		2
40	Meta-cognitive extreme learning machine for regression problems. , 2016, , .		2
41	Wingbeat Generation for a 15 DOF Flexible-Wing Aerial Vehicle Using Cosine Wave Functions. Unmanned Systems, 2017, 05, 115-127.	2.7	2
42	Precise pose and assembly detection of generic tubular joints based on partial scan data. Neural Computing and Applications, 0, , 1.	3.2	2
43	Sound source recognition for human robot interaction. , 2008, , .		1
44	Issues in balancing control of lateral-pendulum unicycle robot by separate regulations of its longitudinal and lateral modes. , 2013, , .		1
45	Robust resonant controller for compensation of resonance in voice coil motor actuator of hard disk drive servo system. International Journal of Dynamics and Control, 2017, 5, 683-695.	1.5	1
46	Diagnosis of crack of rotor blades with genetic method. , 2010, , .		0
47	Adaptive resonance compensation with the application to hard disk drive. , 2014, , .		0
48	A stability analysis of discrete-time interconnected systems with mixed passivity, negative-imaginary and small-gain properties. , 2014, , .		0
49	Interconnected systems with “mixed” passivity and negative-imaginary properties: A stability analysis in discrete-time. , 2014, , .		0
50	Gain-scheduling-based control structure for steering of lateral-pendulum unicycle robot „ Part 1: Combined form. , 2014, , .		0
51	Fully complex-valued radial basis function networks for prediction of wind force and moment co-efficients on marine structures. , 2016, , .		0
52	Integrated mechatronics design of flexure joint and controller in dual-drive gantry: A constrained $H_{\infty 2}$ optimization approach. , 2017, , .		0
53	Input Allocation for Partially-Identified Redundant Control and Its Application to Precision Motion Systems. , 2018, , .		0
54	A Study on Dynamic Positioning System Robustness with Wave loads predictions from Deep Belief Network. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Outer-Linearization-Based Optimization Algorithm for Decentralized Control Design in Flexure-Linked H-Gantry. , 2018, , .		0
56	Design of adaptive weld quality monitoring for multipleâ€conditioned robotic welding tasks. Asian Journal of Control, 0, , .	1.9	0