

Tegoeh Tjahjowidodo

List of Publications by Year in descending order

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99
papers

3,362
citations

136885

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155592

55
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99
all docs

99
docs citations

99
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on hysteresis modeling, identification and control. <i>Mechanical Systems and Signal Processing</i> , 2014, 49, 209-233.	4.4	380
2	A Review of Feature Extraction Methods in Vibration-Based Condition Monitoring and Its Application for Degradation Trend Estimation of Low-Speed Slew Bearing. <i>Machines</i> , 2017, 5, 21.	1.2	285
3	A New Approach to Modeling Hysteresis in a Pneumatic Artificial Muscle Using The Maxwell-Slip Model. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 177-186.	3.7	200
4	In-process tool condition monitoring in compliant abrasive belt grinding process using support vector machine and genetic algorithm. <i>Journal of Manufacturing Processes</i> , 2018, 31, 199-213.	2.8	136
5	Hysteresis modeling and position control of tendon-sheath mechanism in flexible endoscopic systems. <i>Mechatronics</i> , 2014, 24, 12-22.	2.0	129
6	Acoustic emission-based condition monitoring methods: Review and application for low speed slew bearing. <i>Mechanical Systems and Signal Processing</i> , 2016, 72-73, 134-159.	4.4	125
7	Identification of pre-sliding and sliding friction dynamics: Grey box and black-box models. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 514-534.	4.4	112
8	Cascade position control of a single pneumatic artificial muscleâ€‘mass system with hysteresis compensation. <i>Mechatronics</i> , 2010, 20, 402-414.	2.0	85
9	Theoretical modelling and experimental identification of nonlinear torsional behaviour in harmonic drives. <i>Mechatronics</i> , 2013, 23, 497-504.	2.0	79
10	Nonlinear friction modelling and compensation control of hysteresis phenomena for a pair of tendon-sheath actuated surgical robots. <i>Mechanical Systems and Signal Processing</i> , 2015, 60-61, 770-784.	4.4	77
11	Friction characterization and compensation in electro-mechanical systems. <i>Journal of Sound and Vibration</i> , 2007, 308, 632-646.	2.1	73
12	An investigation of friction-based tendon sheath model appropriate for control purposes. <i>Mechanical Systems and Signal Processing</i> , 2014, 42, 97-114.	4.4	71
13	Modelling and monitoring of abrasive finishing processes using artificial intelligence techniques: A review. <i>Journal of Manufacturing Processes</i> , 2020, 57, 114-135.	2.8	68
14	In-process virtual verification of weld seam removal in robotic abrasive belt grinding process using deep learning. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 57, 477-487.	6.1	61
15	A new approach of friction model for tendon-sheath actuated surgical systems: Nonlinear modelling and parameter identification. <i>Mechanism and Machine Theory</i> , 2015, 85, 14-24.	2.7	60
16	Identification of pre-sliding friction dynamics. <i>Chaos</i> , 2004, 14, 420-430.	1.0	59
17	Condition monitoring of naturally damaged slow speed slewing bearing based on ensemble empirical mode decomposition. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 2253-2262.	0.7	58
18	Adaptive control for enhancing tracking performances of flexible tendonâ€‘sheath mechanism in natural orifice transluminal endoscopic surgery (NOTES). <i>Mechatronics</i> , 2015, 28, 67-78.	2.0	58

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19	Predictive Modelling and Analysis of Process Parameters on Material Removal Characteristics in Abrasive Belt Grinding Process. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 363.	1.3	57
20	Application of the largest Lyapunov exponent algorithm for feature extraction in low speed slew bearing condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2015, 50-51, 116-138.	4.4	55
21	Real-time enhancement of tracking performances for cable-conduit mechanisms-driven flexible robots. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 37, 197-207.	6.1	48
22	Parsimonious Network Based on a Fuzzy Inference System (PANFIS) for Time Series Feature Prediction of Low Speed Slew Bearing Prognosis. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2656.	1.3	48
23	Improving surface finish quality in extrusion-based 3D concrete printing using machine learning-based extrudate geometry control. <i>Virtual and Physical Prototyping</i> , 2020, 15, 178-193.	5.3	46
24	A direct method to solve optimal knots of B-spline curves: An application for non-uniform B-spline curves fitting. <i>PLoS ONE</i> , 2017, 12, e0173857.	1.1	42
25	Centralized predictive ceiling interaction control of quadrotor VTOL UAV. <i>Aerospace Science and Technology</i> , 2018, 76, 455-465.	2.5	40
26	Position Control of Asymmetric Nonlinearities for a Cable-Conduit Mechanism. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 1515-1523.	3.4	39
27	Circular domain features based condition monitoring for low speed slewing bearing. <i>Mechanical Systems and Signal Processing</i> , 2014, 45, 114-138.	4.4	38
28	Design and experiment of controlled bistable vortex induced vibration energy harvesting systems operating in chaotic regions. <i>Mechanical Systems and Signal Processing</i> , 2018, 98, 1097-1115.	4.4	38
29	A Non-Contact Measuring System for In-Situ Surface Characterization Based on Laser Confocal Microscopy. <i>Sensors</i> , 2018, 18, 2657.	2.1	38
30	Implementation of Optimization-Based Power Management for All-Electric Hybrid Vessels. <i>IEEE Access</i> , 2018, 6, 74339-74354.	2.6	37
31	Structural response investigation of a triangular-based piezoelectric drive mechanism to hysteresis effect of the piezoelectric actuator. <i>Mechanical Systems and Signal Processing</i> , 2013, 36, 210-223.	4.4	35
32	Inspection-while-flying: An autonomous contact-based nondestructive test using UAV-tools. <i>Automation in Construction</i> , 2019, 106, 102895.	4.8	35
33	Experimental chaotic quantification in bistable vortex induced vibration systems. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 1005-1019.	4.4	33
34	Online Tool Condition Monitoring Based on Parsimonious Ensemble+. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 664-677.	6.2	31
35	Adaptive neuro-fuzzy inference system for deburring stage classification and prediction for indirect quality monitoring. <i>Applied Soft Computing Journal</i> , 2018, 72, 565-578.	4.1	30
36	Experimental dynamic identification of backlash using skeleton methods. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 959-972.	4.4	28

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37	Model predictive UAV-tool interaction control enhanced by external forces. <i>Mechatronics</i> , 2019, 58, 47-57.	2.0	25
38	Machinability of wire and arc additive manufactured components. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 35, 379-389.	2.3	25
39	Modelling of Material Removal in Abrasive Belt Grinding Process: A Regression Approach. <i>Symmetry</i> , 2020, 12, 99.	1.1	24
40	Quantifying chaotic responses of mechanical systems with backlash component. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 973-993.	4.4	23
41	In-process endpoint detection of weld seam removal in robotic abrasive belt grinding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1699-1714.	1.5	20
42	EMG finger movement classification based on ANFIS. <i>Journal of Physics: Conference Series</i> , 2018, 1007, 012005.	0.3	20
43	Use of Acoustic Emissions to detect change in contact mechanisms caused by tool wear in abrasive belt grinding process. <i>Wear</i> , 2019, 436-437, 203047.	1.5	20
44	Non-local memory hysteresis in a pneumatic artificial muscle (PAM). , 2009, , .		19
45	Theoretical analysis of the dynamic behavior of presliding rolling friction via skeleton technique. <i>Mechanical Systems and Signal Processing</i> , 2012, 29, 296-309.	4.4	18
46	A hysteresis model for a stacked-type piezoelectric actuator. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 73-87.	1.5	18
47	Dynamic modeling of 3-DOF pyramidal-shaped piezo-driven mechanism. <i>Mechanism and Machine Theory</i> , 2013, 70, 225-245.	2.7	17
48	In-Process Surface Roughness Estimation Model for Compliant Abrasive Belt Machining Process. <i>Procedia CIRP</i> , 2016, 46, 254-257.	1.0	17
49	Integrated Condition Monitoring and Prognosis Method for Incipient Defect Detection and Remaining Life Prediction of Low Speed Slew Bearings. <i>Machines</i> , 2017, 5, 11.	1.2	17
50	An AWS Machine Learning-Based Indirect Monitoring Method for Deburring in Aerospace Industries Towards Industry 4.0. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2165.	1.3	16
51	Frequency Domain Analysis of Sensor Data for Event Classification in Real-Time Robot Assisted Deburring. <i>Sensors</i> , 2017, 17, 1247.	2.1	15
52	Aerial Robot Control in Close Proximity to Ceiling: A Force Estimation-based Nonlinear MPC. , 2019, , .		14
53	Numerical and experimental investigation of nonlinear vortex induced vibration energy converters. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 3715-3726.	0.7	13
54	A CNN Prediction Method for Belt Grinding Tool Wear in a Polishing Process Utilizing 3-Axes Force and Vibration Data. <i>Electronics (Switzerland)</i> , 2021, 10, 1429.	1.8	13

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55	Control of a pneumatic artificial muscle (PAM) with model-based hysteresis compensation. , 2009, , .		12
56	Modeling torque-angle hysteresis in a pneumatic muscle manipulator. , 2010, , .		12
57	Multi-source micro-friction identification for a class of cable-driven robots with passive backbone. Mechanical Systems and Signal Processing, 2016, 80, 152-165.	4.4	12
58	Adaptation to Industry 4.0 Using Machine Learning and Cloud Computing to Improve the Conventional Method of Deburring in Aerospace Manufacturing Industry. , 2019, , .		12
59	Variable-geometry nozzle for surface quality enhancement in 3D concrete printing. Additive Manufacturing, 2021, 37, 101638.	1.7	12
60	Investigation of a robust tendon-sheath mechanism for flexible membrane wing application in mini-UAV. Mechanical Systems and Signal Processing, 2017, 85, 252-266.	4.4	11
61	Surface Topography Measurement of Mirror-Finished Surfaces Using Fringe-Patterned Illumination. Metals, 2020, 10, 69.	1.0	9
62	Development of an Image Grating Sensor for Position Measurement. Sensors, 2019, 19, 4986.	2.1	8
63	DC-Distributed Power System Modeling and Hardware-in-the-Loop (HIL) Evaluation of Fuel Cell-Powered Marine Vessel. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 797-808.	3.0	8
64	EMG based classification of hand gestures using PCA and ANFIS. , 2017, , .		7
65	Positioning Controller for Mechanical Systems with a Mini Harmonic Drive Servo Actuator. , 2007, , .		6
66	Equivalent Consumption Minimization Strategy for hybrid all-electric tugboats to optimize fuel savings. , 2016, , .		6
67	Nonlinear Predictive UAV-Elastic Tool Interaction Control in Real-time. , 2018, , .		6
68	Optimizing fuel savings and power system reliability for all-electric hybrid vessels using Model Predictive Control. , 2017, , .		5
69	Flex Sensor Based Biofeedback Monitoring for Post-Stroke Fingers Myopathy Patients. Journal of Physics: Conference Series, 2018, 1007, 012069.	0.3	5
70	UAV Control in Close Proximities - Ceiling Effect on Battery Lifetime. , 2019, , .		5
71	Framework for measurement of battery state-of-health (resistance) integrating overpotential effects and entropy changes using energy equilibrium. Energy, 2022, 239, 121942.	4.5	5
72	On the Modelling of Fuel Cell-Fed Power System in Electrified Vessels. , 2020, , .		5

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73	Enhanced performances for cable-driven flexible robotic systems with asymmetric backlash profile. , 2015, , .		4
74	Tendon-Sheath Mechanisms in Flexible Membrane Wing Mini-UAVs: Control and Performance. International Journal of Aerospace Engineering, 2017, 2017, 1-18.	0.5	4
75	Analysis of Contact Conditions Based on Process Parameters in Robotic Abrasive Belt Grinding Using Dynamic Pressure Sensor. , 2018, , .		4
76	Constrained Estimation-based Nonlinear Model Predictive Control for UAV-Elastic Tool Interaction. , 2018, , .		4
77	Surface Texture Evaluation on Mirror Finish Surface Using Patterned Area Illumination Method. Lecture Notes in Mechanical Engineering, 2020, , 155-162.	0.3	4
78	A Self-Evolving Mutually-Operative Recurrent Network-based Model for Online Tool Condition Monitoring in Delay Scenario. , 2020, , .		4
79	Modeling Hysteresis with Inertial-Dependent Prandtl-Ishlinskii Model in Wide-Band Frequency-Operated Piezoelectric Actuator. Smart Materials Research, 2012, 2012, 1-15.	0.5	3
80	Fuzzy inference system based intelligent sensor fusion for estimation of surface roughness in machining process. , 2015, , .		3
81	Haptic/virtual reality orthopedic surgical simulators: a literature review. Virtual Reality, 2022, 26, 1795-1825.	4.1	3
82	Strain Rate Dependent Flow Stress Characterization Using Piezo-actuated Micropress. Procedia Engineering, 2014, 81, 1451-1456.	1.2	2
83	Automatic defect detection and the estimation of nominal profiles based on spline for free-form surface parts. , 2015, , .		2
84	Enabling technologies for sustainable all " Electric hybrid vessels (Invited paper). , 2016, , .		2
85	Development of a low cost underwater manipulator robot integrated with SimMechanics 3D animation. , 2017, , .		2
86	Flexible membrane wing warping using tendon-sheath mechanism. , 2015, , .		1
87	Adaptive Tracking Approach of Flexible Cable Conduit-Actuated NOTES Systems for Early Gastric Cancer Treatments. Lecture Notes in Electrical Engineering, 2016, , 79-97.	0.3	1
88	UAV Push Recovery Operation by Symmetrical Control and Estimation in Receding Horizon. , 2018, , .		1
89	Parameters Identification and Adaptation for Condition Monitoring of a Reciprocating Pump via Torque Analysis. , 2018, , .		1
90	An online condition monitoring system implemented an internet connectivity and FTP for low speed slew bearing. Journal of Physics: Conference Series, 2018, 1007, 012002.	0.3	1

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91	Event Classification from Sensor Data using Spectral Analysis in Robotic Finishing Processes. , 2017, , .		1
92	A New Image Grating Sensor for Linear Displacement Measurement and Its Error Analysis. Sensors, 2022, 22, 4361.	2.1	1
93	A Generalized Inertial-Dependent Prandtl-Ishlinskii Model for Wide-Band Frequency Piezoelectric Actuator. Advanced Materials Research, 0, 622-623, 1357-1361.	0.3	0
94	Systematic investigation and modeling of piezoelectric interaction with loading structures. Mechanics of Advanced Materials and Structures, 2018, 25, 714-721.	1.5	0
95	Modal Analysis on Laboratory Scale Vibratory Bowl. , 2018, , .		0
96	A Novel Frequency Estimation Method for Accurate Bearing Fault Frequencies Identification. , 2018, , .		0
97	Multi-Material Composition Optimization vs Software-Based Single-Material Topology Optimization of a Rectangular Sample under Flexural Load for Fused Deposition Modeling Process. Materials Science Forum, 0, 1042, 23-44.	0.3	0
98	A Case Study in Backlash Characterization in Mechanical Systems. , 2005, , .		0
99	Image grating: a novel technology for position measurement. , 2019, , .		0