

Wahyu Caesarendra

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,816
citations

236612

25
h-index

197535

49
g-index

102
all docs

102
docs citations

102
times ranked

2684
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent prognostics for battery health monitoring based on sample entropy. <i>Expert Systems With Applications</i> , 2011, 38, 11763-11769.	4.4	320
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	Application of relevance vector machine and logistic regression for machine degradation assessment. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 1161-1171.	4.4	211
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	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
6	Fault diagnosis of angle grinders and electric impact drills using acoustic signals. <i>Applied Acoustics</i> , 2021, 179, 108070.	1.7	123
7	Detection of Deterioration of Three-phase Induction Motor using Vibration Signals. <i>Measurement Science Review</i> , 2019, 19, 241-249.	0.6	97
8	Combined Probability Approach and Indirect Data-Driven Method for Bearing Degradation Prognostics. <i>IEEE Transactions on Reliability</i> , 2011, 60, 14-20.	3.5	69
9	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
10	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
11	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
12	Acacia Holosericea: An Invasive Species for Bio-char, Bio-oil, and Biogas Production. <i>Bioengineering</i> , 2019, 6, 33.	1.6	57
13	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
14	An Automated ECG Beat Classification System Using Deep Neural Networks with an Unsupervised Feature Extraction Technique. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2921.	1.3	55
15	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
16	Finger movement pattern recognition method using artificial neural network based on electromyography (EMG) sensor. , 2015, , .		46
17	Proposal for a Quad-Elliptical Photonic Crystal Fiber for Terahertz Wave Guidance and Sensing Chemical Warfare Liquids. <i>Photonics</i> , 2019, 6, 78.	0.9	43
18	Deep Learning with a Recurrent Network Structure in the Sequence Modeling of Imbalanced Data for ECG-Rhythm Classifier. <i>Algorithms</i> , 2019, 12, 118.	1.2	41

#	ARTICLE	IF	CITATIONS
19	Machine condition prognosis based on sequential Monte Carlo method. Expert Systems With Applications, 2010, 37, 2412-2420.	4.4	40
20	Combination of probability approach and support vector machine towards machine health prognostics. Probabilistic Engineering Mechanics, 2011, 26, 165-173.	1.3	39
21	Overview: Types of Lower Limb Exoskeletons. Electronics (Switzerland), 2019, 8, 1283.	1.8	39
22	Pattern Recognition of Single-Channel sEMG Signal Using PCA and ANN Method to Classify Nine Hand Movements. Symmetry, 2020, 12, 541.	1.1	39
23	Circular domain features based condition monitoring for low speed slewing bearing. Mechanical Systems and Signal Processing, 2014, 45, 114-138.	4.4	38
24	An application of nonlinear feature extraction - A case study for low speed slewing bearing condition monitoring and prognosis. , 2013, , .		35
25	Fuzzy-Based Fault-Tolerant Control for Omnidirectional Mobile Robot. Machines, 2020, 8, 55.	1.2	34
26	An MFCC-based text-independent speaker identification system for access control. Concurrency Computation Practice and Experience, 2018, 30, e4255.	1.4	31
27	Adaptive neuro-fuzzy inference system for deburring stage classification and prediction for indirect quality monitoring. Applied Soft Computing Journal, 2018, 72, 565-578.	4.1	30
28	In-Vivo Corrosion Characterization and Assessment of Absorbable Metal Implants. Coatings, 2019, 9, 282.	1.2	26
29	Managing Cloud Intelligent Systems over Digital Ecosystems: Revealing Emerging App Technology in the Time of the COVID19 Pandemic. Applied System Innovation, 2020, 3, 37.	2.7	25
30	Modelling of Material Removal in Abrasive Belt Grinding Process: A Regression Approach. Symmetry, 2020, 12, 99.	1.1	24
31	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. Applied System Innovation, 2020, 3, 32.	2.7	23
32	A Review of In-Vivo and In-Vitro Real-Time Corrosion Monitoring Systems of Biodegradable Metal Implants. Applied Sciences (Switzerland), 2020, 10, 3141.	1.3	22
33	Degradation Trend Estimation and Prognosis of Large Low Speed Slewing Bearing Lifetime. Applied Mechanics and Materials, 0, 493, 343-348.	0.2	20
34	Soft Elbow Exoskeleton for Upper Limb Assistance Incorporating Dual Motor-Tendon Actuator. Electronics (Switzerland), 2019, 8, 1184.	1.8	20
35	Field measurement on the model of green facade systems and its effect to building indoor thermal comfort. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108212.	2.5	20
36	Automated Cobb Angle Measurement for Adolescent Idiopathic Scoliosis Using Convolutional Neural Network. Diagnostics, 2022, 12, 396.	1.3	18

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37	Integrated Condition Monitoring and Prognosis Method for Incipient Defect Detection and Remaining Life Prediction of Low Speed Slew Bearings. Machines, 2017, 5, 11.	1.2	17
38	An AWS Machine Learning-Based Indirect Monitoring Method for Deburring in Aerospace Industries Towards Industry 4.0. Applied Sciences (Switzerland), 2018, 8, 2165.	1.3	16
39	A classification method of hand EMG signals based on principal component analysis and artificial neural network. , 2016, , .		15
40	Frequency Domain Analysis of Sensor Data for Event Classification in Real-Time Robot Assisted Deburring. Sensors, 2017, 17, 1247.	2.1	15
41	Grasp Posture Control of Wearable Extra Robotic Fingers with Flex Sensors Based on Neural Network. Electronics (Switzerland), 2020, 9, 905.	1.8	15
42	Pattern recognition methods for multi stage classification of parkinson's disease utilizing voice features. , 2015, , .		14
43	Study on the Leaves Densities as Parameter for Effectiveness of Energy Transfer on the Green Facade. Buildings, 2018, 8, 138.	1.4	14
44	Comparison of the Utilization of 110 Â°C and 120 Â°C Heat Sources in a Geothermal Energy System Using Organic Rankine Cycle (ORC) with R245fa, R123, and Mixed-Ratio Fluids as Working Fluids. Processes, 2019, 7, 113.	1.3	14
45	Investigation of the Tribological Performance of Heterogeneous Slip/No-Slip Journal Bearing Considering Thermo-Hydrodynamic Effects. Fluids, 2021, 6, 48.	0.8	13
46	Classification of bird sounds as an early warning method of forest fires using Convolutional Neural Network (CNN) algorithm. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4345-4357.	2.7	13
47	A CNN Prediction Method for Belt Grinding Tool Wear in a Polishing Process Utilizing 3-Axes Force and Vibration Data. Electronics (Switzerland), 2021, 10, 1429.	1.8	13
48	Progress in Development of Nanostructured Manganese Oxide as Catalyst for Oxygen Reduction and Evolution Reaction. Energies, 2021, 14, 6385.	1.6	13
49	Adaptation to Industry 4.0 Using Machine Learning and Cloud Computing to Improve the Conventional Method of Deburring in Aerospace Manufacturing Industry. , 2019, , .		12
50	Electromyography (EMG) signal recognition using combined discrete wavelet transform based on Artificial Neural Network (ANN). , 2016, , .		11
51	A Novel Feature Extraction and Fault Detection Technique for the Intelligent Fault Identification of Water Pump Bearings. Sensors, 2021, 21, 4225.	2.1	11
52	Affordable and Faster Transradial Prosthetic Socket Production Using Photogrammetry and 3D Printing. Electronics (Switzerland), 2020, 9, 1456.	1.8	9
53	Embedded Machine Learning Using a Multi-Thread Algorithm on a Raspberry Pi Platform to Improve Prosthetic Hand Performance. Micromachines, 2022, 13, 191.	1.4	9
54	Development of a low cost anthropomorphic robotic hand driven by modified glove sensor and integrated with 3D animation. , 2016, , .		8

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55	Observation to Building Thermal Characteristic of Green Façade Model Based on Various Leaves Covered Area. Buildings, 2019, 9, 75.	1.4	8
56	Effective Beamforming Technique Amid Optimal Value for Wireless Communication. Electronics (Switzerland), 2020, 9, 1869.	1.8	8
57	An Embedded System Using Convolutional Neural Network Model for Online and Real-Time ECG Signal Classification and Prediction. Diagnostics, 2022, 12, 795.	1.3	8
58	Development of robotic hand integrated with SimMechanics 3D animation. , 2016, , .		7
59	EMG based classification of hand gestures using PCA and ANFIS. , 2017, , .		7
60	Heat Rate Prediction of Combined Cycle Power Plant Using an Artificial Neural Network (ANN) Method. Sensors, 2021, 21, 1022.	2.1	7
61	Thermal insulation effect of green façades based on calculation of heat transfer and long wave infrared radiative exchange. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110555.	2.5	7
62	A pattern recognition method for stage classification of Parkinson's disease utilizing voice features. , 2014, , .		6
63	Overview Electrotactile Feedback for Enhancing Human Computer Interface. Journal of Physics: Conference Series, 2018, 1007, 012001.	0.3	6
64	Effect of In-Shoe Foot Orthosis Contours on Heel Pain Due to Calcaneal Spurs. Applied Sciences (Switzerland), 2019, 9, 495.	1.3	6
65	Development and Performance Measurement of an Affordable Unmanned Surface Vehicle (USV). Automation, 2022, 3, 27-46.	1.2	6
66	Machine degradation prognostic based on RVM and ARMA/GARCH model for bearing fault simulated data. , 2010, , .		5
67	Role of TiO ₂ Phase Composition Tuned by LiOH on The Electrochemical Performance of Dual-Phase Li ₄ Ti ₅ O ₁₂ -TiO ₂ Microrod as an Anode for Lithium-Ion Battery. Energies, 2020, 13, 5251.	1.6	5
68	Performance of Smokehouse Designed for Smoking Fish with the Indirect Method. Processes, 2020, 8, 204.	1.3	5
69	Study of Jatropha curcas Linn and Olea europaea as Bio-Oil Lubricant to Physical Properties and Wear Rate. Lubricants, 2021, 9, 39.	1.2	5
70	Distance Measurement of Unmanned Aerial Vehicles Using Vision-Based Systems in Unknown Environments. Electronics (Switzerland), 2021, 10, 1647.	1.8	5
71	Real-Time Identification of Knee Joint Walking Gait as Preliminary Signal for Developing Lower Limb Exoskeleton. Electronics (Switzerland), 2021, 10, 2117.	1.8	5
72	Development of Surface EMG Game Control Interface for Persons with Upper Limb Functional Impairments. Signals, 2021, 2, 834-851.	1.2	5

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73	Real-Time Littering Activity Monitoring Based on Image Classification Method. <i>Smart Cities</i> , 2021, 4, 1496-1518.	5.5	5
74	Levulinic Acid Production from Macroalgae: Production and Promising Potential in Industry. <i>Sustainability</i> , 2021, 13, 13919.	1.6	5
75	Data on records of temperature and relative humidity in a building model with green facade systems. <i>Data in Brief</i> , 2020, 28, 104896.	0.5	4
76	Influence of Superheated Vapour in Organic Rankine Cycles with Working Fluid R123 Utilizing Low-Temperature Geothermal Resources. <i>Symmetry</i> , 2020, 12, 1463.	1.1	4
77	Parkinson Disease Detection Based on Voice and EMG Pattern Classification Method for Indonesian Case Study. <i>Journal of Energy Mechanical Material and Manufacturing Engineering</i> , 2018, 3, 87.	0.1	4
78	Direct Double Coating of Carbon and Nitrogen on Fluoride-Doped Li4Ti5O12 as an Anode for Lithium-Ion Batteries. <i>Batteries</i> , 2022, 8, 5.	2.1	4
79	EEG based pattern recognition method for classification of different mental tasking: Preliminary study for stroke survivors in Indonesia. , 2015, , .		3
80	Slew bearing early damage detection based on multivariate state estimation technique and sequential probability ratio test. , 2015, , .		3
81	Sudden cardiac death predictor based on spatial QRS-T angle feature and support vector machine case study for cardiac disease detection in Indonesia. , 2016, , .		3
82	Speech control of robotic hand augmented with 3D animation using neural network. , 2016, , .		3
83	Low Cost Parkinson's Disease Early Detection and Classification Based on Voice and Electromyography Signal. <i>Studies in Computational Intelligence</i> , 2018, , 397-426.	0.7	3
84	Development of Myoelectric Prosthetic Hand based on Arduino IDE and Visual C# for Trans-radial Amputee in Indonesia. , 2018, , .		3
85	A Simple Foot Plantar Pressure Measurement Platform System Using Force-Sensing Resistors. <i>Applied System Innovation</i> , 2020, 3, 33.	2.7	3
86	EMG Based Classification of Hand Gesture Using PCA and SVM. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 459-477.	0.3	3
87	Development of a low cost underwater manipulator robot integrated with SimMechanics 3D animation. , 2017, , .		2
88	A Method to Extract P300 EEG Signal Feature Using Independent Component Analysis (ICA) for Lie Detection. <i>Journal of Energy Mechanical Material and Manufacturing Engineering</i> , 2017, 2, 9.	0.1	2
89	Design of a Home Fire Detection System Using Arduino and SMS Gateway. <i>Knowledge</i> , 2021, 1, 61-74.	0.7	2
90	Fault Diagnosis and Prognosis of Critical Components. <i>Shock and Vibration</i> , 2016, 2016, 1-3.	0.3	1

#	ARTICLE	IF	CITATIONS
91	An Analysis of Customer Agrotourism Resort Behaviour based on RFM and Mean Shift Clustering. , 2018, , .		1
92	A Review on Sensors for Real-time Monitoring and Control Systems on Machining and Surface Finishing Processes. MATEC Web of Conferences, 2018, 159, 02034.	0.1	1
93	A framework of designing reliable disaster response operation using axiomatic design. AIP Conference Proceedings, 2020, , .	0.3	1
94	Distributed Analytics Framework for Integrating Brownfield Systems to Establish Intelligent Manufacturing Architecture. , 0, , .		1
95	AutoSpine-Net: Spine Detection Using Convolutional Neural Networks for Cobb Angle Classification in Adolescent Idiopathic Scoliosis. Lecture Notes in Electrical Engineering, 2022, , 547-556.	0.3	1
96	Calculation of the Rearfoot Angle Representing Flatfoot from Comparison to the Cavanagh Arch Index. Applied Sciences (Switzerland), 2022, 12, 6764.	1.3	1
97	Condition Monitoring of Naturally Damaged Slewing Bearing Based on EMD and EEMD Methods. Lecture Notes in Mechanical Engineering, 2015, , 125-136.	0.3	0
98	Development of Unmanned Aerial Vehicle (UAV) ornithopter with wireless radio control. , 2016, , .		0
99	Optimization of Power Plant Operation Parameters for Efficiency Improvement through Data-Driven Relevance Vector Machine Regression Algorithm. , 2018, , .		0
100	Design and Testing of UMM Vertical Ball Mill (UVBM) for producing Aluminium Powder. Journal of Physics: Conference Series, 2018, 1007, 012063.	0.3	0
101	An application of anticipatory FMEA for preventing failures in humanitarian response operation. AIP Conference Proceedings, 2020, , .	0.3	0
102	A Design Study of Orthotic Shoe Based on Pain Pressure Measurement Using Algometer for Calcaneal Spur Patients. Technologies, 2021, 9, 62.	3.0	0