

# 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	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
2	Development and Performance Measurement of an Affordable Unmanned Surface Vehicle (USV). Automation, 2022, 3, 27-46.	1.2	6
3	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
4	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
5	Direct Double Coating of Carbon and Nitrogen on Fluoride-Doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as an Anode for Lithium-Ion Batteries. Batteries, 2022, 8, 5.	2.1	4
6	Automated Cobb Angle Measurement for Adolescent Idiopathic Scoliosis Using Convolutional Neural Network. Diagnostics, 2022, 12, 396.	1.3	18
7	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
8	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
9	EMG Based Classification of Hand Gesture Using PCA and SVM. Lecture Notes in Electrical Engineering, 2022, , 459-477.	0.3	3
10	Calculation of the Rearfoot Angle Representing Flatfoot from Comparison to the Cavanagh Arch Index. Applied Sciences (Switzerland), 2022, 12, 6764.	1.3	1
11	Investigation of the Tribological Performance of Heterogeneous Slip/No-Slip Journal Bearing Considering Thermo-Hydrodynamic Effects. Fluids, 2021, 6, 48.	0.8	13
12	Heat Rate Prediction of Combined Cycle Power Plant Using an Artificial Neural Network (ANN) Method. Sensors, 2021, 21, 1022.	2.1	7
13	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
14	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
15	A Novel Feature Extraction and Fault Detection Technique for the Intelligent Fault Identification of Water Pump Bearings. Sensors, 2021, 21, 4225.	2.1	11
16	Distance Measurement of Unmanned Aerial Vehicles Using Vision-Based Systems in Unknown Environments. Electronics (Switzerland), 2021, 10, 1647.	1.8	5
17	A Design Study of Orthotic Shoe Based on Pain Pressure Measurement Using Algometer for Calcaneal Spur Patients. Technologies, 2021, 9, 62.	3.0	0
18	Fault diagnosis of angle grinders and electric impact drills using acoustic signals. Applied Acoustics, 2021, 179, 108070.	1.7	123

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19	Real-Time Identification of Knee Joint Walking Gait as Preliminary Signal for Developing Lower Limb Exoskeleton. <i>Electronics (Switzerland)</i> , 2021, 10, 2117.	1.8	5
20	Progress in Development of Nanostructured Manganese Oxide as Catalyst for Oxygen Reduction and Evolution Reaction. <i>Energies</i> , 2021, 14, 6385.	1.6	13
21	Design of a Home Fire Detection System Using Arduino and SMS Gateway. <i>Knowledge</i> , 2021, 1, 61-74.	0.7	2
22	Development of Surface EMG Game Control Interface for Persons with Upper Limb Functional Impairments. <i>Signals</i> , 2021, 2, 834-851.	1.2	5
23	Real-Time Littering Activity Monitoring Based on Image Classification Method. <i>Smart Cities</i> , 2021, 4, 1496-1518.	5.5	5
24	Levulinic Acid Production from Macroalgae: Production and Promising Potential in Industry. <i>Sustainability</i> , 2021, 13, 13919.	1.6	5
25	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
26	Managing Cloud Intelligent Systems over Digital Ecosystems: Revealing Emerging App Technology in the Time of the COVID19 Pandemic. <i>Applied System Innovation</i> , 2020, 3, 37.	2.7	25
27	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
28	Affordable and Faster Transradial Prosthetic Socket Production Using Photogrammetry and 3D Printing. <i>Electronics (Switzerland)</i> , 2020, 9, 1456.	1.8	9
29	Field measurement on the model of green facade systems and its effect to building indoor thermal comfort. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108212.	2.5	20
30	Effective Beamforming Technique Amid Optimal Value for Wireless Communication. <i>Electronics (Switzerland)</i> , 2020, 9, 1869.	1.8	8
31	A Simple Foot Plantar Pressure Measurement Platform System Using Force-Sensing Resistors. <i>Applied System Innovation</i> , 2020, 3, 33.	2.7	3
32	Role of TiO <sub>2</sub> Phase Composition Tuned by LiOH on The Electrochemical Performance of Dual-Phase Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -TiO <sub>2</sub> Microrod as an Anode for Lithium-Ion Battery. <i>Energies</i> , 2020, 13, 5251.	1.6	5
33	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. <i>Applied System Innovation</i> , 2020, 3, 32.	2.7	23
34	Fuzzy-Based Fault-Tolerant Control for Omnidirectional Mobile Robot. <i>Machines</i> , 2020, 8, 55.	1.2	34
35	A Review of In-Vivo and In-Vitro Real-Time Corrosion Monitoring Systems of Biodegradable Metal Implants. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3141.	1.3	22
36	Grasp Posture Control of Wearable Extra Robotic Fingers with Flex Sensors Based on Neural Network. <i>Electronics (Switzerland)</i> , 2020, 9, 905.	1.8	15

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37	Performance of Smokehouse Designed for Smoking Fish with the Indirect Method. <i>Processes</i> , 2020, 8, 204.	1.3	5
38	An application of anticipatory FMEA for preventing failures in humanitarian response operation. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
39	A framework of designing reliable disaster response operation using axiomatic design. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
40	Modelling of Material Removal in Abrasive Belt Grinding Process: A Regression Approach. <i>Symmetry</i> , 2020, 12, 99.	1.1	24
41	Pattern Recognition of Single-Channel sEMG Signal Using PCA and ANN Method to Classify Nine Hand Movements. <i>Symmetry</i> , 2020, 12, 541.	1.1	39
42	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
43	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
44	Soft Elbow Exoskeleton for Upper Limb Assistance Incorporating Dual Motor-Tendon Actuator. <i>Electronics (Switzerland)</i> , 2019, 8, 1184.	1.8	20
45	Adaptation to Industry 4.0 Using Machine Learning and Cloud Computing to Improve the Conventional Method of Deburring in Aerospace Manufacturing Industry. , 2019, , .		12
46	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
47	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
48	Acacia Holosericea: An Invasive Species for Bio-char, Bio-oil, and Biogas Production. <i>Bioengineering</i> , 2019, 6, 33.	1.6	57
49	In-Vivo Corrosion Characterization and Assessment of Absorbable Metal Implants. <i>Coatings</i> , 2019, 9, 282.	1.2	26
50	Effect of In-Shoe Foot Orthosis Contours on Heel Pain Due to Calcaneal Spurs. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 495.	1.3	6
51	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. <i>Processes</i> , 2019, 7, 113.	1.3	14
52	Observation to Building Thermal Characteristic of Green Façade Model Based on Various Leaves Covered Area. <i>Buildings</i> , 2019, 9, 75.	1.4	8
53	Detection of Deterioration of Three-phase Induction Motor using Vibration Signals. <i>Measurement Science Review</i> , 2019, 19, 241-249.	0.6	97
54	Overview: Types of Lower Limb Exoskeletons. <i>Electronics (Switzerland)</i> , 2019, 8, 1283.	1.8	39

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55	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
56	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
57	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
58	An MFCC-based text-independent speaker identification system for access control. <i>Concurrency Computation Practice and Experience</i> , 2018, 30, e4255.	1.4	31
59	Development of Myoelectric Prosthetic Hand based on Arduino IDE and Visual C# for Trans-radial Amputee in Indonesia. , 2018, , .		3
60	Study on the Leaves Densities as Parameter for Effectiveness of Energy Transfer on the Green Facade. <i>Buildings</i> , 2018, 8, 138.	1.4	14
61	An Analysis of Customer Agrotourism Resort Behaviour based on RFM and Mean Shift Clustering. , 2018, , .		1
62	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
63	Optimization of Power Plant Operation Parameters for Efficiency Improvement through Data-Driven Relevance Vector Machine Regression Algorithm. , 2018, , .		0
64	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
65	Design and Testing of UMM Vertical Ball Mill (UVBM) for producing Aluminium Powder. <i>Journal of Physics: Conference Series</i> , 2018, 1007, 012063.	0.3	0
66	A Review on Sensors for Real-time Monitoring and Control Systems on Machining and Surface Finishing Processes. <i>MATEC Web of Conferences</i> , 2018, 159, 02034.	0.1	1
67	Overview Electrotactile Feedback for Enhancing Human Computer Interface. <i>Journal of Physics: Conference Series</i> , 2018, 1007, 012001.	0.3	6
68	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
69	EMG based classification of hand gestures using PCA and ANFIS. , 2017, , .		7
70	Development of a low cost underwater manipulator robot integrated with SimMechanics 3D animation. , 2017, , .		2
71	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
72	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

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73	Frequency Domain Analysis of Sensor Data for Event Classification in Real-Time Robot Assisted Deburring. <i>Sensors</i> , 2017, 17, 1247.	2.1	15
74	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
75	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
76	Fault Diagnosis and Prognosis of Critical Components. <i>Shock and Vibration</i> , 2016, 2016, 1-3.	0.3	1
77	Electromyography (EMG) signal recognition using combined discrete wavelet transform based on Artificial Neural Network (ANN). , 2016, , .		11
78	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
79	Speech control of robotic hand augmented with 3D animation using neural network. , 2016, , .		3
80	Development of a low cost anthropomorphic robotic hand driven by modified glove sensor and integrated with 3D animation. , 2016, , .		8
81	Development of Unmanned Aerial Vehicle (UAV) ornithopter with wireless radio control. , 2016, , .		0
82	A classification method of hand EMG signals based on principal component analysis and artificial neural network. , 2016, , .		15
83	Development of robotic hand integrated with SimMechanics 3D animation. , 2016, , .		7
84	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
85	EEG based pattern recognition method for classification of different mental tasking: Preliminary study for stroke survivors in Indonesia. , 2015, , .		3
86	Condition Monitoring of Naturally Damaged Slewing Bearing Based on EMD and EEMD Methods. <i>Lecture Notes in Mechanical Engineering</i> , 2015, , 125-136.	0.3	0
87	Finger movement pattern recognition method using artificial neural network based on electromyography (EMG) sensor. , 2015, , .		46
88	Slew bearing early damage detection based on multivariate state estimation technique and sequential probability ratio test. , 2015, , .		3
89	Pattern recognition methods for multi stage classification of parkinson's disease utilizing voice features. , 2015, , .		14
90	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

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91	Circular domain features based condition monitoring for low speed slewing bearing. Mechanical Systems and Signal Processing, 2014, 45, 114-138.	4.4	38
92	A pattern recognition method for stage classification of Parkinson's disease utilizing voice features. , 2014, , .		6
93	Condition monitoring of naturally damaged slow speed slewing bearing based on ensemble empirical mode decomposition. Journal of Mechanical Science and Technology, 2013, 27, 2253-2262.	0.7	58
94	An application of nonlinear feature extraction - A case study for low speed slewing bearing condition monitoring and prognosis. , 2013, , .		35
95	Combined Probability Approach and Indirect Data-Driven Method for Bearing Degradation Prognostics. IEEE Transactions on Reliability, 2011, 60, 14-20.	3.5	69
96	Intelligent prognostics for battery health monitoring based on sample entropy. Expert Systems With Applications, 2011, 38, 11763-11769.	4.4	320
97	Combination of probability approach and support vector machine towards machine health prognostics. Probabilistic Engineering Mechanics, 2011, 26, 165-173.	1.3	39
98	Machine condition prognosis based on sequential Monte Carlo method. Expert Systems With Applications, 2010, 37, 2412-2420.	4.4	40
99	Application of relevance vector machine and logistic regression for machine degradation assessment. Mechanical Systems and Signal Processing, 2010, 24, 1161-1171.	4.4	211
100	Machine degradation prognostic based on RVM and ARMA/GARCH model for bearing fault simulated data. , 2010, , .		5
101	Degradation Trend Estimation and Prognosis of Large Low Speed Slewing Bearing Lifetime. Applied Mechanics and Materials, 0, 493, 343-348.	0.2	20
102	Distributed Analytics Framework for Integrating Brownfield Systems to Establish Intelligent Manufacturing Architecture. , 0, , .		1