Wisnu Jatmiko

List of Publications by Year
in descending order

163 papers	1,191 citations	1305906 8 h-index	889612 19 g-index
164 all docs	164 docs citations	164 times ranked	1063 citing authors

#	Article	IF	Citations
1	Transfer Learning, Style Control, and Speaker Reconstruction Loss for Zero-Shot Multilingual Multi-Speaker Text-to-Speech on Low-Resource Languages. IEEE Access, 2022, 10, 5895-5911.	2.6	5
2	Development of Adaptive Fuzzy-Neuro Generalized Learning-Vector Quantization Using PI Membership Function (AFNGLVQ-PI). IEEE Access, 2021, 9, 47452-47480.	2.6	2
3	FaceNet with RetinaFace to Identify Masked Face. , 2021, , .		2
4	Outdoor LiDAR Point Cloud Building Segmentation: Progress and Challenge. , 2021, , .		0
5	Variational Contrastive Log Ratio Upper Bound of Mutual Information for Training Generative Models. , 2021, , .		0
6	Canonical Segmentation Using Affix Characters as a Unit on Transformer for Javanese Language. , 2021, , .		0
7	A Modest System of Feature-based Stereo Visual Odometry. , 2021, , .		0
8	Cross-Lingual Summarization: English - Bahasa Indonesia. , 2021, , .		0
9	YOLOv4 RGBT Human Detection on Unmanned Aerial Vehicle Perspective. , 2021, , .		6
10	Dynamic swarm particle for fast motion vehicle tracking. ETRI Journal, 2020, 42, 54-66.	1.2	5
11	Dataset of vehicle images for Indonesia toll road tariff classification. Data in Brief, 2020, 32, 106061.	0.5	3
12	Dataset of short-term prediction of CO2 concentration based on a wireless sensor network. Data in Brief, 2020, 31, 105924.	0.5	3
13	Hierarchical Transfer Learning for Multilingual, Multi-Speaker, and Style Transfer DNN-Based TTS on Low-Resource Languages. IEEE Access, 2020, 8, 179798-179812.	2.6	12
14	The Reliability of Routing Protocols as an Important Factor for Road Safety Applications in VANET-based Autonomous Cars. Journal of Computer Science, 2020, 16, 768-783.	0.5	3
15	Improved Logistic-Sine Chaotic Map based S-box and Bit-Plane Scrambling Encryption Schemes Performance on Compressed ECG Data. , 2020, , .		0
16	Designing Intelligent Coastal Surveillance based on Big Maritime Data. , 2020, , .		5
17	Switching target communication strategy for optimizing multiple pursuer drones performance in immobilizing Kamikaze multiple evader drones. ICT Express, 2020, 6, 76-82.	3.3	4
18	Optimal Feature Aggregation and Combination for Two-Dimensional Ensemble Feature Selection. Information (Switzerland), 2020, 11, 38.	1.7	9

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19	Enhanced Social Spider Optimization Algorithm for Increasing Performance of Multiple Pursuer Drones in Neutralizing Attacks From Multiple Evader Drones. IEEE Access, 2020, 8, 22145-22161.	2.6	9
20	Clustering versus Incremental Learning Multi-Codebook Fuzzy Neural Network for Multi-Modal Data Classification. Computation, 2020, 8, 6.	1.0	0
21	Prediction of Protein Tertiary Structure Using Pre-Trained Self-Supervised Learning Based on Transformer. , 2020, , .		3
22	Developing Smart COVID-19 Social Distancing Surveillance Drone using YOLO Implemented in Robot Operating System simulation environment. , 2020, , .		22
23	Indonesian Traffic Sign Recognition For Advanced Driver Assistent (ADAS) Using YOLOv4. , 2020, , .		5
24	Kinematics and Simulation Model of Autonomous Indonesian â€œBecakâ€•Robot. , 2020, , .		1
25	Adaptive Update in Deep Learning Algorithms for LiDAR Data Semantic Segmentation. , 2020, , .		2
26	Fast Ellipse Fitting Implementation on USG Mobile Telehealth Application. , 2020, , .		0
27	Warfare Simulation:Predicting Battleship Winner Using Random Forest. , 2019, , .		1
28	Intruder Drone Localization Based on 2D Image and Area Expansion Principle for Supporting Military Defence System. , 2019, , .		15
29	Comnetsat 2019 Welcome Message. , 2019, , .		0
30	ICIMTech 2019 Welcoming Remarks. , 2019, , .		0
31	Particle Swarm Optimization based Nonlocal Means for Denoising ECG Signal. , 2019, , .		1
32	Distance-To-Mean Continuous Conditional Random Fields: Case Study in Traffic Congestion. Information (Switzerland), 2019, 10, 382.	1.7	0
33	Dynamic Motion Planning for Conducting Obstacle Avoidance Maneuver of Fixed Wing Autonomous Aerial Vehicle. , 2019, , .		3
34	The Use of Direction Matrix to Determine Autonomous Quad-Copter Drone Path when Facing Obstacle. , 2019, , .		2
35	Ensemble learning versus deep learning for Hypoxia detection in CTG signal. , 2019, , .		3
36	Improving Deep Learning Classifier for Fetus Hypoxia Detection in Cardiotocography Signal. , 2019, , .		7

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37	Temporal feature and heuristics-based Noise Detection over Classical Machine Learning for ECG Signal Quality Assessment. , 2019, , .		4
38	Kinematics and Dynamics Analysis of an Autonomous Three-wheeled Bicycle Modeling. , 2019, , .		0
39	Investigation Reinforcement Learning Method for R-Wave Detection on Electrocardiogram Signal. , 2019, , .		3
40	Feature Selection based on F-score for Enhancing CTG Data Classification. , 2019, , .		7
41	Welcome message from IEEE Indonesia Section Chair. , 2019, , .		0
42	Semantic Segmentation of Lidar Point Cloud in Rural Area. , 2019, , .		3
43	UAV Path Planning for Autonomous Spraying Task at Salak Plantation based on the Severity of Plant Disease. , 2019, , .		3
44	Wavelet-Based Signal Quality Assessment: Noise Detection by Temporal Feature and Heuristics-based. , 2019, , .		2
45	Adaptive Multi-Strategy Observation of Kernelized Correlation Filter for Visual Object Tracking. , 2019, , .		0
46	Semantic Segmentation on LiDAR Point Cloud in Urban Area using Deep Learning. , 2019, , .		8
47	3D Edge Convolution in Deep Neural Network Implementation for Land Cover Semantic Segmentation of Airborne LiDAR Data. , 2019, , .		1
48	Developing smart Tele-ECG system for early detection andÂmonitoring heart diseases based on ECG signal: progress and challenges. International Journal on Smart Sensing and Intelligent Systems, 2019, 12, 1-28.	0.4	4
49	Two Layer Network Flow for Fast Data Association on Multi Object Tracking. , 2018, , .		0
50	2-Dimensional Homogeneous Distributed Ensemble Feature Selection. , 2018, , .		1
51	ICACSIS 2018 Welcome Message from the General Chairs. , 2018, , .		0
52	Multipath Routing Protocols in Vehicular Ad hoc Networks (VANETs): Performance Evaluation in Various Conditions. , 2018, , .		3
53	Denoising Noisy ECG Signal Based on Adaptive Fourier Decomposition. , 2018, , .		5
54	Multi-Parameter Measurement Tool of Heart Rate and Blood Pressure to Detect Indonesian Car Drivers Drowsiness. , 2018, , .		3

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55	Optimized Convolutional Gabor Using Particle Swarm Optimization : Case Study: Vehicle Classification Tasks. , 2018, , .		0
56	Improvement CNN Performance by Edge Detection Preprocessing for Vehicle Classification Problem. , 2018, , .		3
57	Variational Mode Decomposition with Nonlocal Means Technique for Robust Denoising ECG Signal. , 2018, , .		1
58	Improving Principal Component Analysis Performance for Reducing Spectral Dimension in Hyperspectral Image Classification. , 2018, , .		1
59	Multicodebook Neural Network Using Intelligent K-Means Clustering Based on Histogram Information for Multimodal Data Classification. , 2018, , .		0
60	Ensemble Learning on Large Scale Financial Imbalanced Data. , 2018, , .		14
61	Performance Comparison of Bitcoin Prediction in Big Data Environment. , 2018, , .		3
62	Level 2 Features with Feedback Mechanism for Toddler Fingerprint Recognition. , 2018, , .		0
63	Enhanced Bayesian Tracker for Various Condition using Thermal Infrared Imagery. , 2018, , .		0
64	Fast and Optimal Visual Tracking based on Spectral Method. Procedia Computer Science, 2017, 116, 571-578.	1.2	1
65	A real time vehicle counting based on adaptive tracking approach for highway videos. , 2017, , .		2
66	Optimization of Stacked Unsupervised Extreme Learning Machine to improve classifier performance. , 2017, , .		6
67	Enhance generalized learning vector quantization using unsupervised extreme learning machine and intelligent K-means clustering. , 2017, , .		5
68	Comparison of diagnostics set and feature selection for breast cancer classification based on microRNA expression. , 2017, , .		2
69	Telebiometric system for infant and toddler fingerprint recognition. , 2017, , .		0
70	Seasonal time series exploration using conditional probabilistic graphical approach. , 2017, , .		0
71	Hyperbolic tangent activation function on FIMT-DD algorithm analysis for airline big data. , 2017, , .		1
72	Block and booth floating point number multiplication algorithms in FPGA's generalized learning vector quantization implementation. , 2017, , .		0

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73	An efficient secure ECG compression based on 2D-SPIHT and SIT algorithm. , 2017, , .		5
74	Fruit mapping mobile robot on simulated agricultural area in Gazebo simulator using simultaneous localization and mapping (SLAM). , 2017, , .		23
75	Welcome message from general chairs. , 2017, , .		0
76	Welcome message from general chairs. , 2017, , .		0
77	Bhattacharyya distance-based tracking: A vehicle counting application. , 2017, , .		2
78	Preliminary research on continuous conditional random fields in predicting high-dimensional data. , 2017, , .		1
79	Vehicle Detection using Dimensionality Reduction based on Deep Belief Network for Intelligent Transportation System. , 2017, , .		5
80	Building Business Process on Tele-Ultrasonography: An International Collaboration of Medical Technology Development. Advanced Science Letters, 2017, 23, 6861-6865.	0.2	1
81	Perceptron rule improvement on FIMT-DD for large traffic data stream. , 2016, , .		11
82	A review of big data analytics in the biomedical field. , 2016, , .		11
83	Design of intelligent k-means based on spark for big data clustering. , 2016, , .		17
84	Enhanced tele ECG system using Hadoop framework to deal with big data processing. , 2016, , .		8
85	Big data compression using spiht in Hadoop: A case study in multi-lead ECG signals. , 2016, , .		3
86	Prediction the number of blastomere in time-lapse embryo using Conditional Random Field (CRF) method based on Bag of Visual Words (BoVW). , 2016, , .		2
87	Vehicle traffic monitoring using single camera and embedded systems. , 2016, , .		1
88	Sensor node for data sampling and correlation analysis of CO_2 concentration with air humidity, temperature, and light intensity. , 2016, , .		1
89	Generalized learning vector quantization particle swarm optimization (GLVQ-PSO) FPGA implementation for real-time electrocardiogram. , 2016, , .		1
90	Generative oversampling method (GenOMe) for imbalanced data on apnea detection using ECG data. , 2016, , .		4

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91	Structured support vector machine learning of conditional random fields. , 2016, , .		1
92	Fetal head segmentation based on Gaussian elliptical path optimize by flower pollination algorithm and cuckoo search. , 2016, , .		3
93	Multi-sperm tracking using Hungarian Kalman Filter on low frame rate video. , 2016, , .		11
94	Accurate visual tracking by combining Bayesian and evolutionary optimization framework. , 2016, , .		0
95	Traffic big data prediction and visualization using Fast Incremental Model Trees-Drift Detection (FIMT-DD). Knowledge-Based Systems, 2016, 93, 33-46.	4.0	61
96	Utilizing Google Images for Training Classifiers in CRF-Based Semantic Segmentation. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2016, 20, 455-461.	0.5	2
97	Detecting Ellipses in Embryo Images Using Arc Detection Method with Particle Swarm for Blastomere-Quality Measurement System. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2016, 20, 1170-1180.	0.5	3
98	ELLIPSE DETECTION ON EMBRYO IMAGING USING RANDOM SAMPLE CONSENSUS (RANSAC) METHOD BASED ON ARC SEGMENT. International Journal on Smart Sensing and Intelligent Systems, 2016, 9, 1384-1409.	0.4	3
99	Algal growth rate modeling and prediction optimization using incorporation of MLP and CPSO algorithm. , 2015, , .		7
100	Evolutionary segment selection for higher-order conditional random fields in semantic image segmentation. , 2015, , .		0
101	Automatic fetal head approximation using Particle Swarm Optimization based Gaussian Elliptical Path. , 2015, , .		4
102	Human Sperm tracking using Particle Swarm Optimization combined with Smoothing Stochastic sampling on low frame rate video. , 2015, , .		5
103	Implementation of grid mapped robot planning algorithm in a continuous map for fire fighting robot. , 2015, , .		1
104	An efficient implementation of generalized extreme studentized deviate (GESD) on field programmable gate array (FPGA). , 2015, , .		2
105	Learning semantic segmentation score in weakly supervised convolutional neural network. , 2015, , .		2
106	Ellipse detection on embryo image using modification of arc Particle Swarm Optimization (ArcPSO) based arc segment. , 2015, , .		3
107	Genetic algorithm optimization for extreme learning machine based microalgal growth forecasting of Chlamydomonas sp. , 2015, , .		4
108	Multi codebook LVQ-based artificial neural network using clustering approach. , 2015, , .		3

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109	ECG signal compression by predictive coding and Set Partitioning in Hierarchical Trees (SPIHT). , 2015, , .		4
110	Developing smart telehealth system in Indonesia: Progress and challenge. , 2015, , .		17
111	Implementation of adaptive fuzzy neuro generalized learning vector quantization (AFNGLVQ) on field programmable gate array (FPGA) for real world application. , 2015, , .		4
112	An adaptive selective background learning-hole filling algorithm to improve vehicle detection. , 2015, , .		3
113	GEOMETRIC DEEP PARTICLE FILTER FOR MOTORCYCLE TRACKING: DEVELOPMENT OF INTELLIGENT TRAFFIC SYSTEM IN JAKARTA. International Journal on Smart Sensing and Intelligent Systems, 2015, 8, 429-463.	0.4	7
114	Automated Telehealth System for Fetal Growth Detection and Approximation of Ultrasound Images. International Journal on Smart Sensing and Intelligent Systems, 2015, 8, 697-719.	0.4	20
115	AUTOMATIC FETAL ORGANS DETECTION AND APPROXIMATION IN ULTRASOUND IMAGE. International Journal on Smart Sensing and Intelligent Systems, 2015, 8, 720-748.	0.4	2
116	A NOVEL KNOWLEDGE-COMPATIBILITY BENCHMARKER FOR SEMANTIC SEGMENTATION. International Journal on Smart Sensing and Intelligent Systems, 2015, 8, 1284-1312.	0.4	2
117	ArcPSO: Ellipse detection method using particle swarm optimization and arc combination. , 2014, , .		6
118	Automatic fetal organs detection and approximation in ultrasound image using boosting classifier and hough transform. , 2014, , .		7
119	Tracking efficiency measurement of dynamic models on geometric particle filter using KLD-resampling. , 2014, , .		2
120	Fundamental diagram estimation using Virtual Detection Zone in smart phones' application and CCTV data. , 2014, , .		3
121	3D SPIHT for multi-lead ECG compression. , 2014, , .		8
122	Simulation of intelligent Unmanned Aerial Vehicle (UAV) For military surveillance. , 2013, , .		124
123	Adaptive Multi codebook Fuzzy Neuro Generalized Learning Vector Quantization for sleep stages classification. , 2013, , .		2
124	Automatic detection of embryo using Particle Swarm Optimization based Hough Transform. , 2013, , .		7
125	An ECG 12-lead hardware with SPIHT compressing scheme. , 2013, , .		1
126	Improved vehicle speed estimation using Gaussian mixture model and hole filling algorithm. , 2013, , .		17

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127	Autonomous quadcopter swarm robots for object localization and tracking. , 2013, , .		24
128	Improved efficient ellipse hough transform for fetal head measurement. , 2013, , .		5
129	Vehicle counting and speed measurement using headlight detection. , 2013, , .		36
130	Background Subtraction Using Gaussian Mixture Model Enhanced by Hole Filling Algorithm (GMMHF). , 2013, , .		28
131	Performance Analysis of ECG Signal Compression using SPIHT. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 2011-2039.	0.4	16
132	Electrocardiogram for Biometrics by using Adaptive Multilayer Generalized Learning Vector Quantization (AMGLVQ): Integrating Feature Extraction and Classification. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 1891-1917.	0.4	8
133	Modified Particle Swarm for multimodal functions in dynamic environment using iteration proportional change for inertia weight and weight of social components. , 2012, , .		0
134	FNGLVQ FPGA design for sleep stages classification based on electrocardiogram signal. , 2012, , .		7
135	The Effect of Electrocardiogram Signal Compression Using Beat Reordering and SPIHT on Automatic Sleep Stage Classification. Procedia Engineering, 2012, 41, 888-896.	1.2	6
136	Adaptive Multilayer Generalized Learning Vector Quantization (AMGLVQ) as new algorithm with integrating feature extraction and classification for Arrhythmia heartbeats classification. , 2012, , .		8
137	Beat reordering for optimal electrocardiogram signal compression using SPIHT. , 2012, , .		7
138	Mobile phones as traffic sensors with map matching and privacy considerations. , 2012, , .		10
139	A comparative study on Daubechies Wavelet Transformation, Kernel PCA and PCA as feature extractors for arrhythmia detection using SVM. , 2011, , .		6
140	Building automation tools to calculate trichloroethylene level in human liver using - Case study: Images of white mouse liver. , 2011, , .		0
141	Optimized distributed self-organizing control for coordinated traffic signal in Jakarta. , 2011, , .		0
142	Enhanced adaptive traffic signal control system using camera sensor and embedded system. , 2011, , .		9
143	Arrhythmia heart beats classification using mahalanobis Generalized Learning Vector Quantization (Mahalanobis GLVQ). , 2011, , .		3
144	Arrhythmia classification from wavelet feature on FGPA. , 2011, , .		4

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145	Sleep Apnea Detection from ECG Signal: Analysis on Optimal Features, Principal Components, and Nonlinearity. , 2011, , .		24
146	Adaptive traffic signal control system using camera sensor and embedded system. , 2011, , .		31
147	Autonomous telecommunication networks coverage area expansion in disaster area using mobile robots. , 2011, , .		8
148	Visualization and statistical analysis of fuzzy-neuro learning vector quantization based on particle swarm optimization for recognizing mixture odors. , 2009, , .		2
149	Distributed traffic control with swarm-self organizing map in Jakarta: Simulation and measurement. , 2009, , .		5
150	Localizing multiple odor sources in dynamic environment using ranged subgroup PSO with flow of wind based on open dynamic engine library. , 2009, , .		10
151	A pso-based mobile robot for odor source localization in dynamic advection-diffusion with obstacles environment: theory, simulation and measurement. IEEE Computational Intelligence Magazine, 2007, 2, 37-51.	3.4	152
152	A Mobile Robots PSO-Based for Odor Source Localization in Extreme Dynamic Advection-Diffusion Environment with Obstacle. , 2006, , .		4
153	Artificial odor discrimination system using multiple quartz resonator sensors and various neural networks for recognizing fragrance mixtures. IEEE Sensors Journal, 2006, 6, 223-233.	2.4	22
154	A Mobile Robots PSO-based for Odor Source Localization in Dynamic Advection-Diffusion Environment. , 2006, , .		19
155	A Particle Swarm-based Mobile Sensor Network for Odor Source Localization in a Dynamic Environment. , 2006, , 71-80.		10
156	Optimized probabilistic neural networks in recognizing fragrance mixtures using higher number of sensors. , 2005, , .		2
157	Fuzzy-neuro LVQ and its comparison with fuzzy algorithm LVQ in artificial odor discrimination system. ISA Transactions, 2002, 41, 395-407.	3.1	25
158	Speaker identification in noisy environment using bispectrum analysis and probabilistic neural network. , 0, , .		1
159	Recognition of odor mixture using fuzzy-LVQ neural networks with matrix similarity analysis. , 0, , .		3
160	Improving the artificial odor and gas source localization system using the semiconductor gas sensor based on RF communication. , 0, , .		4
161	Optimization of fuzzy-neural structure through genetic algorithms and its application in artificial odor recognition-system. , 0, , .		8
162	Distributed Odor Source Localization in Dynamic Environment. , 0, , .		16

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163	Design and Simulation Fuzzy Neuro Generalized Learning Vector Quantization-PI (FNGLVQ-PI) on Field Programmable Gate Array (FPGA). , 0, , .		2