Ronnie Concepcion Ii

List of Publications by Year
in descending order

95 papers	**953** citations	1040056 **9** h-index
95 all docs	**95** docs citations	**95** times ranked

940533 **16** g-index
122 citing authors

#	Article	IF	Citations
1	A novel artificial bee colony-optimized visible oblique dipyramid greenness index for vision-based aquaponic lettuce biophysical signatures estimation. Information Processing in Agriculture, 2023, 10, 312-333.	4.1	4
2	Smart sustainable biorefineries for lignocellulosic biomass. Bioresource Technology, 2022, 344, 126215.	9.6	47
3	Thermo-gas dynamics affect the leaf canopy shape and moisture content of aquaponic lettuce in a modified partially diffused microclimatic chamber. Scientia Horticulturae, 2022, 292, 110649.	3.6	8
4	Systematic Analysis and Proposed AI-based Technique for Attenuating Inductive and Capacitive Parasitics in Low and Very Low Frequency Antennas. , 2022, , .		7
5	Optimization of Subsurface Imaging Antenna Capacitance through Geometry Modeling using Archimedes, Lichtenberg and Henry Gas Solubility Metaheuristics. , 2022, , .		16
6	Detection and Quantitative Prediction of Diplocarpon earlianum Infection Rate in Strawberry Leaves using Population-based Recurrent Neural Network. , 2022, , .		2
7	Differential Effects of Potassium Chloride on Vascular Tissues, Morphological Traits and Germination of Tomato with Sperm Swarm-based Nutrient Optimization. Trends in Sciences, 2022, 19, 1993.	0.5	2
8	Bioinspired Optimization of Germination Nutrients Based on Lactuca sativa Seedling Root Traits as Influenced by Seed Stratification, Fortification and Light Spectrums. Agrivita, 2021, 43, .	0.4	15
9	Diseased Surface Assessment of Maize Cercospora Leaf Spot Using Hybrid Gaussian Quantum-Behaved Particle Swarm and Recurrent Neural Network. , 2021, , .		25
10	Determination of Aquaponic Water Macronutrient Concentrations Based on Lactuca Sativa Leaf Photosynthetic Signatures using Hybrid Gravitational Search and Recurrent Neural Network. Walailak Journal of Science and Technology, 2021, 18, .	0.5	12
11	Prediction of Grape Leaf Black Rot Damaged Surface Percentage Using Hybrid Linear Discriminant Analysis and Decision Tree. , 2021, , .		26
12	Applying Limnological Feature-Based Machine Learning Techniques to Chemical State Classification in Marine Transitional Systems. Frontiers in Marine Science, 2021, 8, .	2.5	8
13	Lactuca sativa leaf extract concentration optimization using evolutionary strategy as photosensitizer for TiO2-filmed GrÓ"tzel cell. Optik, 2021, 242, 166931.	2.9	20
14	Cluster-based Network for Improved Internet Resilience in Outland Agriculture. , 2021, , .		3
15	Vision-based Postharvest Analysis of Musa Acuminata Using Feature-based Machine Learning and Deep Transfer Networks. , 2021, , .		11
16	Seed Architectural Phenes Prediction and Variety Classification of Dry Beans (Phaseolus vulgaris) Using Machine Learning Algorithms. , 2021, , .		6
17	Identification of Philippine Maize Variety Using Convolutional Neural Network with Kernel Morphological Phenes Characterization. , 2021, , .		1
18	FishEye: A Centroid-Based Stereo Vision Fish Tracking Using Multigene Genetic Programming. , 2021, , .		9

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19	Severity Assessment of Potato Leaf Disease Induced by Alternaria solani Fungus Using Hybrid Decision Tree and Support Vector Machine Regression. , 2021, , .		3
20	Characterization of Potassium Chloride Stress on Philippine Vigna radiata Varieties in Temperature-stabilized Hydroponics Using Genetic Programming. , 2021, , .		3
21	Development of a Raspberry Pi-based Underwater Camera System for Inland Freshwater Aquaculture. , 2021, , .		0
22	Indirect Prediction of Aquaponic Water Nitrate Concentration Using Hybrid Genetic Algorithm and Recurrent Neural Network. , 2021, , .		9
23	OryzaNet: Leaf Quality Assessment of Oryza sativa Using Hybrid Machine Learning and Deep Neural Network. , 2021, , .		7
24	State-of-charge Monitoring and Actuation system for Photovoltaic Solar Cell System. , 2021, , .		0
25	Optimization of Vacuum Drying Properties for Chlorococcum infusionum Microalgae Moisture Content Using Hybrid Genetic Programming and Genetic Algorithm. , 2021, , .		3
26	Prediction of Moisture Content of Chlorella vulgaris Microalgae Using Hybrid Evolutionary Computing and Neural Network Variants for Biofuel Production. , 2021, , .		2
27	Towards the Integration of Computer Vision and Applied Artificial Intelligence in Postharvest Storage Systems: Non-invasive Harvested Crop Monitoring. , 2021, , .		3
28	Analytical Hierarchy Processing for Sustainable Intensive Caged Tilapia and Milkfish Cultivation Site Selection in the Philippines. , 2021, , .		2
29	Stimulation of Static Electric Field and Exposure Time on Germination and Stem Tissues of Hybrid Philippine Zea mays Genotypes. , 2021, , .		1
30	Influence of Storage Periods and Temperatures on Postharvest Quality of Fresh-Marketed Lycopersicon esculentum Mill. , 2021, , .		3
31	Fuzzy Logic Controlled Motor Speed in Rotating Aquaponics Based on Lactuca sativa Leaf Chlorosis and Necrosis and Environment Temperature. , 2021, , .		3
32	Irescue: Tracking Device using RuBee â€" based Technology. , 2021, , .		1
33	Intelligent Permaculture: A Sustainable and Profitable Practice for Tropical and Maritime Climate Urban and Peri-urban Agricultural Ecosystems. , 2021, , .		3
34	Faster R-CNN based Fish Detector for Smart Aquaculture System. , 2021, , .		6
35	Prediction of Weld Current Using Deep Transfer Image Networks Based on Weld Signatures for Quality Control. , 2021, , .		12
36	PIGMENTnet: Chlorophyll-b Prediction of Lactuca Sativa Leaf Under Hybrid Genetic Algorithm and Recurrent Neural Network. , 2021, , .		6

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37	In Situ Indirect Measurement of Nitrate Concentration in Outdoor Tilapia Fishpond Based on Physico-limnological Sensors. , 2021, , .		4
38	SalviaNet: A Machine Learning-based Leaf Signature Profiling and Species Identification of the Endemic Genus Salvia in Central Asia. , 2021, , .		2
39	Estimation of Photosynthetic Growth Signature at the Canopy Scale Using New Genetic Algorithm-Modified Visible Band Triangular Greenness Index. , 2020, , .		22
40	An Image Classifier for Underwater Fish Detection using Classification Tree-Artificial Neural Network Hybrid. , 2020, , .		13
41	Variety Classification of Lactuca Sativa Seeds Using Single-Kernel RGB Images and Spectro-Textural-Morphological Feature-Based Machine Learning. , 2020, , .		6
42	Arabidopsis Tracker: A Centroid-Based Vegetation Localization Model for Automatic Leaf Canopy Phenotyping in Multiple-Pot Cultivation System. , 2020, , .		5
43	Congestion Detection in Wireless Sensor Networks Based on Artificial Neural Network and Support Vector Machine. , 2020, , .		17
44	Trend Forecasting of Computer Vision Application in Aquaponic Cropping Systems Industry. , 2020, , .		13
45	Biofiltration for Recirculating Aquaponic Systems: A Review. , 2020, , .		7
46	Genetic Algorithm-based Dark Channel Prior Parameters Selection for Single Underwater Image Dehazing. , 2020, , .		13
47	Visual Classification of Lettuce Growth Stage based on Morphological Attributes using Unsupervised Machine Learning models. , 2020, , .		30
48	Genetic Algorithm-Based Visible Band Tetrahedron Greenness Index Modeling for Lettuce Biophysical Signature Estimation. , 2020, , .		23
49	A Comparative Analysis of Machine Learning Algorithms Modeled from Machine Vision-Based Lettuce Growth Stage Classification in Smart Aquaponics. International Journal of Environmental Science and Development, 2020, 11, 442-449.	0.6	33
50	A Machine Learning Approach of Lattice Infill Pattern for Increasing Material Efficiency in Additive Manufacturing Processes. , 2020, , 1253-1263.		24
51	Trophic state assessment using hybrid classification tree-artificial neural network. International Journal of Advances in Intelligent Informatics, 2020, 6, 46.	1.2	13
52	Lettuce life stage classification from texture attributes using machine learning estimators and feature selection processes. International Journal of Advances in Intelligent Informatics, 2020, 6, 173.	1.2	23
53	Lettuce growth stage identification based on phytomorphological variations using coupled color superpixels and multifold watershed transformation. International Journal of Advances in Intelligent Informatics, 2020, 6, 261.	1.2	23
54	Optimization of Nonlinear Temperature Gradient on Eigenfrequency Using Genetic Algorithm for Reinforced Concrete Bridge Structural Health. EAI/Springer Innovations in Communication and Computing, 2020, , 141-151.	1.1	4

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55	Alertness and Mental Fatigue Classification Using Computational Intelligence in an Electrocardiography and Electromyography System with Off-Body Area Network. EAI/Springer Innovations in Communication and Computing, 2020, , 153-169.	1.1	2
56	Vision-Based Metal Oxide Semiconductor Transistor-Level Layout Error Classification Using EfficientNet Model. , 2020, , .		1
57	A 90 nm Static CMOS Technology Gate-Level Integrated Circuit Layout Classification and Error Detection Using EfficientNet Model. , 2020, , .		0
58	Phytopigments Profiling of Lactuca Sativa Leaf Chloroplast Photosystems via Vision-based Planar Chromatography. , 2020, , .		6
59	Diffusion of Robotics in the Philippines: Impact of Policies, Laws, R & D, and Word of Mouth. , 2020, , .		11
60	Application-based Cluster and Connectivity-Specific Routing Protocol for Smart Monitoring System. , 2020, , .		7
61	Smart Irrigation Control System Using Wireless Sensor Network Via Internet-of-Things. , 2020, , .		12
62	Trends in Nanotechnology in the Philippines and Laos Agricultural Industry. , 2020, , .		1
63	Development of a Hybrid Machine Learning Model for Apple (Malus domestica) Health Detection and Disease Classification. , 2020, , .		10
64	Energy Management Trends for Sustainability in Agriculture Industry of the Philippines. , 2020, , .		8
65	Structural Health Fuzzy Classification of Bridge based on Subjective and Objective Inspections. , 2020, , .		4
66	A Hybrid Data Acquisition Model using Artificial Intelligence and IoT Messaging Protocol for Precision Farming. , 2020, , .		16
67	Lettuce Leaf Water Stress Estimation Based on Thermo-Visible Signatures Using Recurrent Neural Network Optimized by Evolutionary Strategy. , 2020, , .		9
68	Indirect Measurement of Dissolved Oxygen Based on Algae Growth Factors Using Machine Learning Models. , 2020, , .		6
69	Aquaphotomics Determination of Total Organic Carbon and Hydrogen Biomarkers on Aquaponic Pond Water and Concentration Prediction Using Genetic Programming. , 2020, , .		19
70	Vibration-based Structural Health Monitoring System for Bridges using ADXL345 Accelerometer with MATLAB Standalone Application. , 2020, , .		5
71	Machine Vision-Based Prediction of Lettuce Phytomorphological Descriptors using Deep Learning Networks. , 2020, , .		11
72	Metaheuristic Optimization of Ammonia Factor as a Eutrophication Pollution Emission Descriptor for Trophic State Stability. International Journal of Environmental Science and Development, 2020, 11, 460-470.	0.6	5

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73	Application of Ensemble Learning with Mean Shift Clustering for Output Profile Classification and Anomaly Detection in Energy Production of Grid-Tied Photovoltaic System. , 2020, , .		8
74	Lettuce Canopy Area Measurement Using Static Supervised Neural Networks Based on Numerical Image Textural Feature Analysis of Haralick and Gray Level Co-Occurrence Matrixs. Agrivita, 2020, 42, .	0.4	16
75	Adaptive Neuro-Fuzzy Inference System on Aquaphotomics Development for Aquaponic Water Nutrient Assessments and Analyses. , 2020, , .		17
76	Tomato Septoria Leaf Spot Necrotic and Chlorotic Regions Computational Assessment Using Artificial Bee Colony-Optimized Leaf Disease Index. , 2020, , .		23
77	Using Stacked Long Short Term Memory with Principal Component Analysis for Short Term Prediction of Solar Irradiance based on Weather Patterns. , 2020, , .		17
78	Audit Pattern Optimization in Service Industry using Six Sigma Methodology. , 2020, , .		4
79	Hybrid Tree-Fuzzy Logic for Aquaponic Lettuce Growth Stage Classification Based on Canopy Texture Descriptors. , 2020, , .		5
80	Grape Leaf Multi-disease Detection with Confidence Value Using Transfer Learning Integrated to Regions with Convolutional Neural Networks. , 2020, , .		17
81	ICML: Machine Learning-based Transistor-level Integrated Circuit Layout Error Classification using Color Analysis and Segmentation. , 2020, , .		0
82	Application of Hybrid Soft Computing for Classification of Reinforced Concrete Bridge Structural Health Based on Thermal-Vibration Intelligent System Parameters. , 2019, , .		15
83	An Aquaculture-Based Binary Classifier for Fish Detection using Multilayer Artificial Neural Network. , 2019, , .		18
84	Implementation of Inverse Kinematics for Crop-Harvesting Robotic Arm in Vertical Farming. , 2019, , .		20
85	A Fuzzy Logic-Based Stock Market Trading Algorithm Using Bollinger Bands. , 2019, , .		17
86	Performance Comparison of Classification Algorithms for Diagnosing Chronic Kidney Disease. , 2019, , .		8
87	Classification of Landcover from Combined LiDAR and Orthophotos Using Support Vector Machine. , 2019, , .		0
88	Fuzzy Classification Approach on Quality Deterioration Assessment of Tomato Puree in Aerobic Storage using Electronic Nose. , 2019, , .		12
89	Analysis of Big Data Technologies for Policy Building in the Philippines. , 2019, , .		4
90	Feasibility of Television White Space Spectrum Technologies for Wide Range Wireless Sensor Network: A survey. , 2019, , .		11

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91	The Technology Adoption and Governance of Artificial Intelligence in the Philippines. , 2019, , .		15
92	Design of a Robot Controller for Peloton Formation Using Fuzzy Logic. , 2019, , .		6
93	Implementation of Multilayer Perceptron Neural Network on Quality Assessment of Tomato Puree in Aerobic Storage using Electronic Nose. , 2019, , .		7
94	Reinforced Concrete Bridge Structural Health Classification using Hybrid Principal Component Analysis and Artificial Neural Network Approach with Wireless Sensor Network. Indian Journal of Public Health Research and Development, 2018, 9, 1788.	0.0	2
95	Triaxial MEMS digital accelerometer and temperature sensor calibration techniques for structural health monitoring of reinforced concrete bridge laboratory test platform. , 2017, , .		14