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Development and evaluation of a low-cost and smart technology for precision weed management utilizing artificial intelligence

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#	Paper	IF	Citations
167	Evaluation of a Ground Penetrating Radar to Map the Root Architecture of HLB-infected Citrus Trees. <i>Agronomy</i> , 2019 , 9, 354	3.6	12
166	Citrus rootstock evaluation utilizing UAV-based remote sensing and artificial intelligence. <i>Computers and Electronics in Agriculture</i> , 2019 , 164, 104900	6.5	37
165	Finite Difference Analysis and Bivariate Correlation of Hyperspectral Data for Detecting Laurel Wilt Disease and Nutritional Deficiency in Avocado. <i>Remote Sensing</i> , 2019 , 11, 1748	5	11
164	Application of Deep Learning in Food: A Review. 2019 , 18, 1793-1811		123
163	<i>>UAV-based high throughput phenotyping in specialty crops utilizing artificial intelligence</i>. 2019 ,		1
162	Shifting the Paradigm: An Ecological Systems Approach to Weed Management. 2019 , 9, 179		12
161	Herbicide Resistance Management: Recent Developments and Trends. <i>Plants</i> , 2019 , 8,	4.5	40
160	UAV-Based Remote Sensing Technique to Detect Citrus Canker Disease Utilizing Hyperspectral Imaging and Machine Learning. <i>Remote Sensing</i> , 2019 , 11, 1373	5	80
159	Development and evaluation of a mobile thermotherapy technology for in-field treatment of Huanglongbing (HLB) affected trees. 2019 , 182, 1-15		11
158	Automated vision-based system for monitoring Asian citrus psyllid in orchards utilizing artificial intelligence. <i>Computers and Electronics in Agriculture</i> , 2019 , 162, 328-336	6.5	39
157	UAV-Based High Throughput Phenotyping in Citrus Utilizing Multispectral Imaging and Artificial Intelligence. <i>Remote Sensing</i> , 2019 , 11, 410	5	98
156	State-of-the-art technologies in precision agriculture: a systematic review. 2019 , 99, 4878-4888		47
155	Analysis of different tracking intervals for Parabolic Trough Collectors for water disinfection in agricultural applications. 2020 , 41, 7		1
154	EntoSim, a ROOT-based simulator to forecast insects life cycle: Description and application in the case of <i>Lobesia botrana</i> . 2020 , 129, 105024		11
153	Detection of target spot and bacterial spot diseases in tomato using UAV-based and benchtop-based hyperspectral imaging techniques. 2020 , 21, 955-978		37
152	Applications of Remote Sensing in Precision Agriculture: A Review. <i>Remote Sensing</i> , 2020 , 12, 3136	5	110
151	Policy forum: Proposal of a Mexican precision agroforestry policy. 2020 , 119, 102292		2

150	Transformation of agricultural landscapes in the Anthropocene: Nature's contributions to people, agriculture and food security. 2020 , 63, 193-253		27
149	A survey of problem weeds of sorghum and their management in two sorghum-producing districts of Zimbabwe. 2020 , 6, 1738840		3
148	<i></i>Measuring Tree Canopy Density Using A Lidar-Guided System for Precision Spraying</i>. 2020 ,		1
147	Determining leaf stomatal properties in citrus trees utilizing machine vision and artificial intelligence. 2020 , 22, 1107		4
146	A holistic approach in herbicide resistance research and management: from resistance detection to sustainable weed control. 2020 , 10, 20741		1
145	Spatial Modelling of Within-Field Weed Populations; a Review. <i>Agronomy</i> , 2020 , 10, 1044	3.6	6
144	<i></i>UAV- and cloud-based application for high throughput phenotyping utilizing deep learning</i>. 2020 ,		
143	Detecting powdery mildew disease in squash at different stages using UAV-based hyperspectral imaging and artificial intelligence. 2020 , 197, 135-148		35
142	A Deep Learning Approach for Weed Detection in Lettuce Crops Using Multispectral Images. 2020 , 2, 471-488		36
141	Design and Development of a Smart Variable Rate Sprayer Using Deep Learning. <i>Remote Sensing</i> , 2020 , 12, 4091	5	3
140	Weed Classification for Site-Specific Weed Management Using an Automated Stereo Computer-Vision Machine-Learning System in Rice Fields. <i>Plants</i> , 2020 , 9,	4.5	12
139	Agroview: Cloud-based application to process, analyze and visualize UAV-collected data for precision agriculture applications utilizing artificial intelligence. <i>Computers and Electronics in Agriculture</i> , 2020 , 174, 105457	6.5	45
138	Smart Farming Becomes Even Smarter With Deep Learning</i> A Bibliographical Analysis. <i>IEEE Access</i> , 2020 , 8, 105587-105609	3.5	26
137	Putting deep learning in perspective for pest management scientists. 2020 , 76, 2267-2275		3
136	A new visible band index (vNDVI) for estimating NDVI values on RGB images utilizing genetic algorithms. <i>Computers and Electronics in Agriculture</i> , 2020 , 172, 105334	6.5	36
135	Image processing based real-time variable-rate chemical spraying system for disease control in paddy crop. 2020 , 4, 21-30		4
134	Cover crops, hormones and herbicides: Priming an integrated weed management strategy. 2020 , 301, 110550		3
133	A New Automatic Real-Time Crop Row Recognition Based on SoC-FPGA. <i>IEEE Access</i> , 2020 , 8, 37440-37453	3.5	8

132	Monitoring Plant Status and Fertilization Strategy through Multispectral Images. <i>Sensors</i> , 2020 , 20,	3.8	11
131	Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides. 2020 , 4, 58-73		117
130	Spatial distribution of sorption and desorption process of C-radiolabelled hexazinone and tebutiuron in tropical soil. <i>Chemosphere</i> , 2021 , 264, 128494	8.4	2
129	Women in Precision Agriculture. 2021 ,		1
128	DropLeaf: A precision farming smartphone tool for real-time quantification of pesticide application coverage. <i>Computers and Electronics in Agriculture</i> , 2021 , 180, 105906	6.5	3
127	A Systematic Review on Monitoring and Advanced Control Strategies in Smart Agriculture. <i>IEEE Access</i> , 2021 , 9, 32517-32548	3.5	14
126	Controlled release of herbicides by 2,4-D-, MCPA-, and bromoxynil-intercalated hydrotalcite nanosheets. 2021 , 23, 4560-4566		4
125	Herbicides: A necessary evil? An integrative overview. 2021 , 321-333		
124	MAT-DQN: Toward Interpretable Multi-agent Deep Reinforcement Learning for Coordinated Activities. 2021 , 556-567		1
123	Robots for Agriculture and Food Industry. 2021 , 33, 96-98		
122	Using artificial intelligence technologies for sustainable development. 2021 , 291, 04010		
121	Key Technology of Games Based on Artificial Intelligence Technology. 2021 , 607-614		
120	Measuring pecan nut growth utilizing machine vision and deep learning for the better understanding of the fruit growth curve. <i>Computers and Electronics in Agriculture</i> , 2021 , 181, 105964	6.5	5
119	Digital Transformation and Environmental Sustainability: A Review and Research Agenda. 2021 , 13, 1530		59
118	Monitoring the Efficacy of Crested Floatingheart (<i>Nymphoides cristata</i>) Management with Object-Based Image Analysis of UAS Imagery. <i>Remote Sensing</i> , 2021 , 13, 830	5	4
117	Site and time-specific early weed control is able to reduce herbicide use in maize - a case study.		3
116	A Detailed Review on Challenges and Imperatives of Various CNN Algorithms in Weed Detection. 2021 ,		1
115	Drone and sensor technology for sustainable weed management: a review. 2021 , 8,		26

114	Horse foraging behavior detection using sound recognition techniques and artificial intelligence. <i>Computers and Electronics in Agriculture</i> , 2021 , 183, 106080	6.5	5
113	Automation in Agriculture by Machine and Deep Learning Techniques: A Review of Recent Developments. 1		22
112	Characterising the Agriculture 4.0 Landscape Emerging Trends, Challenges and Opportunities. <i>Agronomy</i> , 2021 , 11, 667	3.6	21
111	Performance of deep learning models for classifying and detecting common weeds in corn and soybean production systems. <i>Computers and Electronics in Agriculture</i> , 2021 , 184, 106081	6.5	16
110	Machine Learning in Agriculture: A Comprehensive Updated Review. <i>Sensors</i> , 2021 , 21,	3.8	60
109	A survey of deep learning techniques for weed detection from images. <i>Computers and Electronics in Agriculture</i> , 2021 , 184, 106067	6.5	41
108	Opportunities and Possibilities of Developing an Advanced Precision Spraying System for Tree Fruits. <i>Sensors</i> , 2021 , 21,	3.8	12
107	The Technology of Precise Application of Herbicides in Onion Field Cultivation. 2021 , 11, 577		3
106	Resources for image-based high-throughput phenotyping in crops and data sharing challenges. 2021 , 187, 699-715		3
105	Acceptance of artificial intelligence in German agriculture: an application of the technology acceptance model and the theory of planned behavior. 1		7
104	Two-Stream Dense Feature Fusion Network Based on RGB-D Data for the Real-Time Prediction of Weed Aboveground Fresh Weight in a Field Environment. <i>Remote Sensing</i> , 2021 , 13, 2288	5	2
103	Recent Advancement of Weed Detection in Crops Using Artificial Intelligence and Deep Learning: A Review. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 631-640	0.2	0
102	Edge Artificial Intelligence: Real-Time Noninvasive Technique for Vital Signs of Myocardial Infarction Recognition Using Jetson Nano. 2021 , 2021, 1-19		0
101	Mycoherbicides for the Noxious Meddlesome: Can be a Budding Candidate?. 2021 , 12, 754048		1
100	The Impact of Cloud Computing and Artificial Intelligence in Digital Agriculture. 2022 , 557-569		2
99	A general ODE-based model to describe the physiological age structure of ectotherms: Description and application to <i>Drosophila suzukii</i> . 2021 , 456, 109673		1
98	Impact of agrochemical application in sustainable agriculture. 2021 , 15-24		2
97	Artificial Intelligence in Extended Agri-Food Supply Chain: A Short Review Based on Bibliometric Analysis. 2021 , 192, 3020-3029		3

96	Managing the Development of Infrastructural Provision of AIC 4.0 on the Basis of Artificial Intelligence: Case Study in the Agricultural Machinery Market. 2020 , 317-323	6
95	Image Analysis Based on Heterogeneous Architectures for Precision Agriculture: A Systematic Literature Review. 2020 , 51-70	7
94	Artificial Intelligence in Agriculture. 2020 , 1693, 012058	2
93	Performance of ANN and AlexNet for weed detection using UAV-based images. 2020 ,	6
92	Low-Power FPGA Architecture Based Monitoring Applications in Precision Agriculture. 2021 , 11, 39	5
91	Machine Vision System for Orchard Management. 2020 , 197-240	1
90	Precision Weed Management. 2021 , 85-106	0
89	Mechanical Control with a Deep Learning Method for Precise Weeding on a Farm. 2021 , 11, 1049	4
88	An ultra-fast bi-phase advanced network for segmenting crop plants from dense weeds. 2021 , 212, 160-174	
87	Artificial Intelligence in Practice [Real-World Examples and Emerging Business Models. 2020 , 77-88	1
86	An Aerial Weed Detection System for Green Onion Crops Using the You Only Look Once (YOLOv3) Deep Learning Algorithm. 2020 , 13, 42-48	3
85	Decent Work and Economic Growth. 2020 , 1-14	
84	Geospatial Technologies for Crops and Soils: An Overview. 2021 , 1-48	3
83	Remote Sensing and Geographic Information System: A Tool for Precision Farming. 2021 , 49-111	2
82	Decent Work and Economic Growth. 2021 , 1024-1037	0
81	Determining leaf nutrient concentrations in citrus trees using UAV imagery and machine learning. 1	2
80	Smart tree crop sprayer utilizing sensor fusion and artificial intelligence. <i>Computers and Electronics in Agriculture</i> , 2021 , 191, 106556	6.5 1
79	Evaluation of cameras and image distance for CNN-based weed detection in wild blueberry. <i>Smart Agricultural Technology</i> , 2022 , 2, 100030	0

78	Applying Real-Time Object Shapes Detection To Automotive Traffic Roads Signs. 2020 ,		3
77	Simulation-Aided Development of a CNN-Based Vision Module for Plant Detection: Effect of Travel Velocity, Inferencing Speed, and Camera Configurations. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1260	2.6	0
76	Current Skills of Students and Their Expected Future Training Needs on Precision Agriculture: Evidence from Euro-Mediterranean Higher Education Institutes. <i>Agronomy</i> , 2022 , 12, 269	3.6	2
75	Sustainable Approach to Weed Management: The Role of Precision Weed Management. <i>Agronomy</i> , 2022 , 12, 118	3.6	6
74	Machine learning-based farm risk management: A systematic mapping review. <i>Computers and Electronics in Agriculture</i> , 2022 , 192, 106631	6.5	2
73	The Application of Artificial Intelligence (AI) and Internet of Things (IoT) in Agriculture: A Systematic Literature Review. 2022 , 32-46		2
72	Leaf Disease Segmentation and Detection in Apple Orchards for Precise Smart Spraying in Sustainable Agriculture. 2022 , 14, 1458		5
71	Classification of pistachios with deep learning and assessing the effect of various datasets on accuracy. 2022 , 16, 1983		0
70	Design and Implementation of an Urban Farming Robot.. 2022 , 13,		1
69	Optimization of herbicide dose for post-emergence weed control in sugarcane plantation using magnetic spraying. 1-12		
68	You Got Data.... Now What: Building the Right Solution for the Problem. <i>Springer Optimization and Its Applications</i> , 2022 , 3-16	0.4	
67	Strip spraying technology for precise herbicide application in carrot fields. <i>Open Chemistry</i> , 2022 , 20, 287-296	1.6	1
66	IoT-Equipped and AI-Enabled Next Generation Smart Agriculture: A Critical Review, Current Challenges and Future Trends. <i>IEEE Access</i> , 2022 , 10, 21219-21235	3.5	9
65	A Review on Deep Learning Technique on Basis of Different Types of Crop Diseases. <i>EAI/Springer Innovations in Communication and Computing</i> , 2022 , 651-665	0.6	0
64	Future of Indian Agriculture Using AI and Machine Learning Tools and Techniques. 2022 , 447-472		
63	Deep learning: as the new frontier in high-throughput plant phenotyping. <i>Euphytica</i> , 2022 , 218,	2.1	4
62	The Application of Hyperspectral Remote Sensing Imagery (HRSI) for Weed Detection Analysis in Rice Fields: A Review. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2570	2.6	2
61	Is digitalization a driver to enhance environmental performance? An empirical investigation of European countries. <i>Sustainable Production and Consumption</i> , 2022 ,	8.2	4

60	Plant development and crop protection using phytonanotechnology: A new window for sustainable agriculture.. <i>Chemosphere</i> , 2022 , 134465	8.4	3
59	Analysis of clustering methods for crop type mapping using satellite imagery. <i>Neurocomputing</i> , 2022 , 492, 91-106	5.4	0
58	A review of the biology, distribution patterns and management of the invasive species <i>Amaranthus palmeri</i> S. Watson (Palmer amaranth): Current and future management challenges. <i>Weed Research</i> , 2022 , 62, 113-122	1.9	0
57	Deep Learning-Based Object Detection System for Identifying Weeds Using UAS Imagery. <i>Remote Sensing</i> , 2021 , 13, 5182	5	0
56	Estudio fitosociológico y evaluación del banco de malezas del suelo en tres fincas maiceras del Estado Portuguesa, Venezuela. <i>Bioagro</i> , 2021 , 34, 27-38	0.4	
55	Emerging Sensing Technologies for Precision Agriculture. <i>Springer Optimization and Its Applications</i> , 2022 , 3-16	0.4	
54	Automation and Control for Adaptive Management System of Urban Agriculture Using Computational Intelligence.		0
53	REAL-TIME SELECTIVE SPRAYING FOR VIOLA ROPE CONTROL IN SOYBEAN AND COTTON CROPS USING DEEP LEARNING. <i>Engenharia Agricola</i> , 2022 , 42,	0.6	0
52	Evaluating Cross-Applicability of Weed Detection Models Across Different Crops in Similar Production Environments.. <i>Frontiers in Plant Science</i> , 2022 , 13, 837726	6.2	0
51	Integration of Innovative Technologies in the Agri-Food Sector: The Fundamentals and Practical Case of DNA-Based Traceability of Olives from Fruit to Oil.. <i>Plants</i> , 2022 , 11,	4.5	1
50	Automation of Rice Cultivation from Ploughing to Harvesting with Diseases, Pests and Weeds to Increase the Yield Using AI. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 505-513	0.2	2
49	Applications of UAVs and Machine Learning in Agriculture. <i>Smart Agriculture</i> , 2022 , 1-19		
48	Artificial-intelligence and sensing techniques for the management of insect pests and diseases in cotton: a systematic literature review. <i>Journal of Agricultural Science</i> , 2022 , 160, 16-31	1	0
47	A Driver Gaze Estimation Method Based on Deep Learning. <i>Sensors</i> , 2022 , 22, 3959	3.8	1
46	Impact of Climate Change on Dryland Agricultural Systems: A Review of Current Status, Potentials, and Further Work Need. <i>International Journal of Plant Production</i> ,	2.4	7
45	Artificial intelligence solutions enabling sustainable agriculture: A bibliometric analysis. <i>PLoS ONE</i> , 2022 , 17, e0268989	3.7	2
44	Precision Chemical Weed Management Strategies: A Review and a Design of a New CNN-Based Modular Spot Sprayer. <i>Agronomy</i> , 2022 , 12, 1620	3.6	1
43	A deep learning approach incorporating YOLO v5 and attention mechanisms for field real-time detection of the invasive weed <i>Solanum rostratum</i> Dunal seedlings. <i>Computers and Electronics in Agriculture</i> , 2022 , 199, 107194	6.5	3

42	Diagnosis of grape leaf diseases using automatic K-means clustering and machine learning. <i>Smart Agricultural Technology</i> , 2023 , 3, 100081		0
41	Field evaluation of a deep learning-based smart variable-rate sprayer for targeted application of agrochemicals. <i>Smart Agricultural Technology</i> , 2023 , 3, 100073		1
40	Agriculture 4.0: a systematic literature review on the paradigm, technologies and benefits. <i>Futures</i> , 2022 , 102998	3.6	2
39	Vegetation suppression system on and near the railway tracks based on PLC and deep learning. 2022 ,		
38	Improved ViBe algorithm based on multi-frame combined with adaptive threshold. 2022 , 2303, 012021		
37	Internet banking adoption under Technology Acceptance Model Evidence from Cambodian users. 2022 , 7, 100224		1
36	Deep learning-based postharvest strawberry bruise detection under UV and incandescent light. 2022 , 202, 107389		1
35	Deep Learning-Based Postharvest Strawberry Bruise Detection Under UV and Incandescent Light.		0
34	Critical review of smart agri-technology solutions for urban food growing. 2022 , 199-217		1
33	Real-Time Weed Control Application Using a Jetson Nano Edge Device and a Spray Mechanism. 2022 , 14, 4217		3
32	An evaluation of alternative statistical models for predicting habitat suitability for weeds.		0
31	Early Weed Identification Based on Deep Learning: A Review. 2022 , 100123		0
30	Performance Evaluation of Deep Learning Object Detectors for Weed Detection for Cotton. 2022 , 100126		0
29	Detection of Peanut Leaf Spot Disease Based on Leaf-, Plant-, and Field-Scale Hyperspectral Reflectance. 2022 , 14, 4988		1
28	Design and Experimental Verification of the YOLOV5 Model Implanted with a Transformer Module for Target-Oriented Spraying in Cabbage Farming. 2022 , 12, 2551		1
27	Weed Detection in Potato Fields Based on Improved YOLOv4: Optimal Speed and Accuracy of Weed Detection in Potato Fields. 2022 , 11, 3709		0
26	Detecting volunteer cotton plants in a corn field with deep learning on UAV remote-sensing imagery. 2023 , 204, 107551		1
25	Towards automated weed detection through two-stage semantic segmentation of tobacco and weed pixels in aerial Imagery. 2023 , 4, 100142		0

- 24 Intelligent Weed Management Based on Object Detection Neural Networks in Tomato Crops. **2022**, 12, 2953 ○
- 23 The Impact of Artificial Intelligence on Portuguese Agriculture. **2023**, 95-112 ○
- 22 Evaluation of a CNN-Based Modular Precision Sprayer in Broadcast-Seeded Field. **2022**, 22, 9723 ○
- 21 Early and on-ground image-based detection of poppy (*Papaver rhoeas*) in wheat using YOLO architectures. 1-26 ○
- 20 Machine vision system for real-time debris detection on mechanical wild blueberry harvesters. **2022**, 100166 ○
- 19 Using Artificial Intelligence in Agroforestry as an Economic Solution for Carbon Recycling in Tanzania. **2023**, 1-32 ○
- 18 Edge AI for Real-Time and Intelligent Agriculture. **2023**, 215-244 ○
- 17 Herbicide resistant *Phalaris minor* in India: History of evolution, present status and its management. ○
- 16 Artificial intelligence applications in the agrifood sectors. **2023**, 11, 100502 ○
- 15 UAV-based weed detection in Chinese cabbage using deep learning. **2023**, 4, 100181 ○
- 14 Artificial Intelligence Tools and Techniques to Combat Herbicide Resistant Weeds: A Review. **2023**, 15, 1843 1
- 13 Design of an Intermittent Herbicide Spray System for Open-Field Cabbage and Plant Protection Effect Experiments. **2023**, 13, 286 ○
- 12 A systematic review of IoT technologies and their constituents for smart and sustainable agriculture applications. **2023**, 19, e01577 ○
- 11 Applications of deep learning in precision weed management: A review. **2023**, 206, 107698 1
- 10 Could the dawn of Level 4 robotic weeders facilitate a revolution in ecological weed management?. **2023**, 63, 83-87 ○
- 9 FPGA-accelerated CNN for real-time plant disease identification. **2023**, 207, 107715 1
- 8 Weed Management in Dryland Agriculture. **2023**, 411-440 ○
- 7 Precision nutrient management utilizing UAV multispectral imaging and artificial intelligence. **2023**, 321-330 ○

- 6 Accurate Detection and Precision Spraying of Corn and Weeds Using the Improved YOLOv5 Model. **2023**, 11, 29868-29882 ○
- 5 Approaches for Plant Leaf Classification: A Review. **2023**, ○
- 4 Detection and Providing Suggestion for Removal of Weeds Using Machine Learning Techniques. **2022**, ○
- 3 An Improved U-Net Model Based on Multi-Scale Input and Attention Mechanism: Application for Recognition of Chinese Cabbage and Weed. **2023**, 15, 5764 ○
- 2 Segmentation of Sandplain Lupin Weeds from Morphologically Similar Narrow-Leafed Lupins in the Field. **2023**, 15, 1817 ○
- 1 Hyperspectral Technique for Detection of Peanut Leaf Spot Disease Based on Improved PCA Loading. **2023**, 13, 1153 ○