Dimitrios Moshou

List of Publications by Year
in descending order

78 papers	5,374 citations	186265 28 h-index	128289 60 g-index
81 all docs	81 docs citations	81 times ranked	4907 citing authors

#	Article	IF	Citations
1	Nutritional composition changes in bell pepper as affected by the ripening stage of fruits at harvest or postharvest storage and assessed non‐destructively. Journal of the Science of Food and Agriculture, 2022, 102, 445-454.	3.5	7
2	Mapping Soil Properties with Fixed Rank Kriging of Proximally Sensed Soil Data Fused with Sentinel-2 Biophysical Parameter. Remote Sensing, 2022, 14, 1639.	4.0	1
3	Designing AfriCultuReS services to support food security in Africa. Transactions in GIS, 2021, 25, 692-720.	2.3	9
4	Rapid Nondestructive Postharvest Potato Freshness and Cultivar Discrimination Assessment. Applied Sciences (Switzerland), 2021, 11, 2630.	2.5	6
5	A deep learning approach for anthracnose infected trees classification in walnut orchards. Computers and Electronics in Agriculture, 2021, 182, 105998.	7.7	37
6	Towards the Development and Verification of a 3D-Based Advanced Optimized Farm Machinery Trajectory Algorithm. Sensors, 2021, 21, 2980.	3.8	7
7	Spatiotemporal Prediction and Mapping of Heavy Metals at Regional Scale Using Regression Methods and Landsat 7. Remote Sensing, 2021, 13, 4615.	4.0	5
8	Artificial intelligence in agriculture. , 2020, , 17-101.		13
9	Tutorial II: Disease detection with fusion techniques. , 2020, , 199-221.		0
10	Tutorial III: Disease and nutrient stress detection. , 2020, , 223-239.		0
11	Tutorial IV: Leaf disease recognition. , 2020, , 241-258.		1
12	Tutorial V: Yield prediction. , 2020, , 259-273.		0
13	Tutorial VI: Postharvest phenotyping. , 2020, , 275-285.		0
14	Sensors in agriculture. , 2020, , 1-15.		11
15	Utilization of multisensors and data fusion in precision agriculture. , 2020, , 103-173.		6
16	Tutorial I: Weed detection. , 2020, , 175-197.		0
17	General overview of the proposed data mining and fusion techniques in agriculture. , 2020, , 287-313.		1
18	Non-Destructive Early Detection and Quantitative Severity Stage Classification of Tomato Chlorosis Virus (ToCV) Infection in Young Tomato Plants Using Vis‐NIR Spectroscopy. Remote Sensing, 2020, 12, 1920.	4.0	20

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19	Olive Trees Stress Detection Using Sentinel-2 Images. , 2019, , .		4
20	Enhancing Food Security Through the Africultures Project: Design of Crop, Water and Drought Services. , 2019, , .		1
21	Automated leaf disease detection in different crop species through image features analysis and One Class Classifiers. Computers and Electronics in Agriculture, 2019, 156, 96-104.	7.7	223
22	Identification of purple spot disease on asparagus crops across spatial and spectral scales. Computers and Electronics in Agriculture, 2018, 148, 322-329.	7.7	31
23	Incorporating Surface Elevation Information in UAV Multispectral Images for Mapping Weed Patches. Journal of Imaging, 2018, 4, 132.	3.0	25
24	Spatial Enhancement of Modis Leaf Area Index Using Regression Analysis with Landsat Vegetation Index. , 2018, , .		3
25	Spectral Identification of Disease in Weeds Using Multilayer Perceptron with Automatic Relevance Determination. Sensors, 2018, 18, 2770.	3.8	14
26	Contribution of Remote Sensing on Crop Models: A Review. Journal of Imaging, 2018, 4, 52.	3.0	149
27	Machine Learning in Agriculture: A Review. Sensors, 2018, 18, 2674.	3.8	1,392
28	Evaluation of hierarchical self-organising maps for weed mapping using UAS multispectral imagery. Computers and Electronics in Agriculture, 2017, 139, 224-230.	7.7	65
29	Detection of Silybum marianum infection with Microbotryum silybum using VNIR field spectroscopy. Computers and Electronics in Agriculture, 2017, 137, 130-137.	7.7	43
30	Detection of biotic and abiotic stresses in crops by using hierarchical self organizing classifiers. Precision Agriculture, 2017, 18, 383-393.	6.0	55
31	Evaluation of UAV imagery for mapping *Silybum marianum* weed patches. International Journal of Remote Sensing, 2017, 38, 2246-2259.	2.9	48
32	Novelty Detection Classifiers in Weed Mapping: Silybum marianum Detection on UAV Multispectral Images. Sensors, 2017, 17, 2007.	3.8	30
33	Application of Multilayer Perceptron with Automatic Relevance Determination on Weed Mapping Using UAV Multispectral Imagery. Sensors, 2017, 17, 2307.	3.8	26
34	Machine learning based prediction of soil total nitrogen, organic carbon and moisture content by using VIS-NIR spectroscopy. Biosystems Engineering, 2016, 152, 104-116.	4.3	331
35	Leaf Disease Recognition in Vine Plants Based on Local Binary Patterns and One Class Support Vector Machines. IFIP Advances in Information and Communication Technology, 2016, , 319-327.	0.7	11
36	Active learning system for weed species recognition based on hyperspectral sensing. Biosystems Engineering, 2016, 146, 193-202.	4.3	109

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37	Wheat yield prediction using machine learning and advanced sensing techniques. Computers and Electronics in Agriculture, 2016, 121, 57-65.	7.7	372
38	Prediction of Soil Nitrogen from Spectral Features Using Supervised Self Organising Maps. Communications in Computer and Information Science, 2015, , 119-126.	0.5	0
39	Crop health condition monitoring based on the identification of biotic and abiotic stresses by using hierarchical self-organizing classifiers. , 2015, , 619-626.		3
40	Water stress detection based on optical multisensor fusion with a least squares support vector machine classifier. Biosystems Engineering, 2014, 117, 15-22.	4.3	58
41	A machine learning approach for the condition monitoring of rotating machinery. Journal of Mechanical Science and Technology, 2014, 28, 61-71.	1.5	65
42	2D and 3D soil moisture imaging using a sensor-based platform moving inside a subsurface network of pipes. Journal of Hydrology, 2013, 499, 146-153.	5.4	8
43	Emissions characteristics of spark ignition engine operating on lowerâ€"higher molecular mass alcohol blended gasoline fuels. Renewable Energy, 2013, 50, 27-32.	8.9	116
44	Detection of fuel type on a spark ignition engine from engine vibration behaviour. Applied Thermal Engineering, 2013, 54, 171-175.	6.0	31
45	Automatic Identification of Gasoline â€" Biofuel Blend Type in an Internal Combustion Four-stroke Engine based on Unsupervised Novelty Detection and Active Learning. Procedia Technology, 2013, 8, 229-237.	1.1	3
46	Calculated external pressure coefficients on livestock buildings and comparison with Eurocode 1. Wind and Structures, an International Journal, 2012, 15, 481-494.	0.8	11
47	An experimental study on the impact of the rear track width on the stability of agricultural tractors using a test bench. Journal of Terramechanics, 2011, 48, 319-323.	3.1	26
48	Intelligent multi-sensor system for the detection and treatment of fungal diseases in arable crops. Biosystems Engineering, 2011, 108, 311-321.	4.3	79
49	A study on the effect of electronic engine speed regulator on agricultural tractor ride vibration behavior. Journal of Terramechanics, 2011, 48, 139-147.	3.1	24
50	Sensing technologies for precision specialty crop production. Computers and Electronics in Agriculture, 2010, 74, 2-33.	7.7	390
51	Effect of controlled traffic on field efficiency. Biosystems Engineering, 2010, 106, 14-25.	4.3	42
52	Fault Severity Estimation in Rotating Mechanical Systems Using Feature Based Fusion and Self-Organizing Maps. Lecture Notes in Computer Science, 2010, , 410-413.	1.3	5
53	Detection of Fungal Diseases Optically and Pathogen Inoculum by Air Sampling. , 2010, , 135-149.		21
54	Simultaneous identification of plant stresses and diseases in arable crops using proximal optical sensing and self-organising maps. Precision Agriculture, 2006, 7, 149-164.	6.0	54

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55	Bruise detection on 'Golden Delicious' apples by vis/NIR spectroscopy. Computers and Electronics in Agriculture, 2006, 52, 11-20.	7.7	67
56	Comfort improvement of a nonlinear suspension using global optimization and in situ measurements. Journal of Sound and Vibration, 2005, 284, 1003-1014.	3.9	24
57	Plant disease detection based on data fusion of hyper-spectral and multi-spectral fluorescence imaging using Kohonen maps. Real Time Imaging, 2005, 11, 75-83.	1.6	178
58	Chlorophyll Fluorescence as a Tool for Online Quality Sorting of Apples. Biosystems Engineering, 2005, 91, 163-172.	4.3	22
59	Dynamic muscle fatigue detection using self-organizing maps. Applied Soft Computing Journal, 2005, 5, 391-398.	7.2	41
60	Improvement of vibrational comfort on agricultural vehicles by passive and semi-active cabin suspensions. Computers and Electronics in Agriculture, 2005, 49, 431-440.	7.7	47
61	Automatic detection of 'yellow rust' in wheat using reflectance measurements and neural networks. Computers and Electronics in Agriculture, 2004, 44, 173-188.	7.7	267
62	Prediction of spreading processes using a supervised Self-Organizing Map. Mathematics and Computers in Simulation, 2004, 65, 77-85.	4.4	4
63	Apple mealiness detection using fluorescence and self-organising maps. Computers and Electronics in Agriculture, 2003, 40, 103-114.	7.7	30
64	A generalized modelling technique for linearized motions of mechanisms with flexible parts. Journal of Sound and Vibration, 2003, 266, 553-572.	3.9	4
65	Vibration control using self-organizing look-up tables. Journal of Sound and Vibration, 2003, 266, 601-612.	3.9	3
66	Early Disease Detection in Wheat Fields using Spectral Reflectance. Biosystems Engineering, 2003, 84, 137-145.	4.3	227
67	THEPOTENTIAL OFOPTICALCANOPYMEASUREMENT FORTARGETEDCONTROL OFFIELDCROPDISEASES. Annual Review of Phytopathology, 2003, 41, 593-614.	7.8	258
68	A Weed Species Spectral Detector Based on Neural Networks. Precision Agriculture, 2002, 3, 209-223.	6.0	21
69	An Intelligent Alarm for Early Detection of Swine Epidemics Based on Neural Networks. Transactions of the American Society of Agricultural Engineers, 2001, 44, 167-174.	0.9	17
70	Neural recognition system for swine cough. Mathematics and Computers in Simulation, 2001, 56, 475-487.	4.4	25
71	AP—Animal Production Technology. Biosystems Engineering, 2001, 79, 449-457.	0.4	53
72	A neural network based plant classifier. Computers and Electronics in Agriculture, 2001, 31, 5-16.	7.7	54

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73	Self-Organizing Learning in Robotics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 83-87.	0.4	0
74	WAVELET BASED ELECTROMYOGRAM (EMG) ANALYSIS. , 2000, , .		5
75	SELF-ORGANIZING SENSORIMOTOR COORDINATION IN ROBOTICS. , 2000, , .		0
76	Hâˇž-controller design for a vibrations isolating platform. Control Engineering Practice, 1999, 7, 1333-1341.	5.5	9
77	Evaluation of a Cascade Compensator for Horizontal Vibrations of a Flexible Spray Boom. Biosystems Engineering, 1998, 71, 81-92.	0.4	10
78	Local Linear Mapping Neural Networks for Pattern Recognition of Plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 61-66.	0.4	5