

# Ming-Der Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

1,994  
citations

236833

25  
h-index

243529

44  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1772  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated diagnosis of sewer pipe defects based on machine learning approaches. Expert Systems With Applications, 2008, 35, 1327-1337.	4.4	140
2	Spatial and Spectral Hybrid Image Classification for Rice Lodging Assessment through UAV Imagery. Remote Sensing, 2017, 9, 583.	1.8	125
3	Morphological segmentation based on edge detection for sewer pipe defects on CCTV images. Expert Systems With Applications, 2011, 38, 13094-13114.	4.4	115
4	Assessing debris-flow hazard in a watershed in Taiwan. Engineering Geology, 2002, 66, 295-313.	2.9	112
5	Segmenting ideal morphologies of sewer pipe defects on CCTV images for automated diagnosis. Expert Systems With Applications, 2009, 36, 3562-3573.	4.4	103
6	Semantic Segmentation Using Deep Learning with Vegetation Indices for Rice Lodging Identification in Multi-date UAV Visible Images. Remote Sensing, 2020, 12, 633.	1.8	100
7	Image-based 3D scene reconstruction and exploration in augmented reality. Automation in Construction, 2013, 33, 48-60.	4.8	94
8	Design optimization of office building envelope configurations for energy conservation. Applied Energy, 2016, 171, 336-346.	5.1	86
9	Systematic image quality assessment for sewer inspection. Expert Systems With Applications, 2011, 38, 1766-1776.	4.4	84
10	Producing synthetic lightweight aggregates from reservoir sediments. Construction and Building Materials, 2012, 28, 387-394.	3.2	84
11	Eutrophication modelling of reservoirs in Taiwan. Environmental Modelling and Software, 2006, 21, 829-844.	1.9	76
12	Multiobjective optimization design of green building envelope material using a non-dominated sorting genetic algorithm. Applied Thermal Engineering, 2017, 111, 1255-1264.	3.0	72
13	Adaptive autonomous UAV scouting for rice lodging assessment using edge computing with deep learning EDANet. Computers and Electronics in Agriculture, 2020, 179, 105817.	3.7	50
14	Pavement performance prediction through fuzzy regression. Expert Systems With Applications, 2011, 38, 10010-10017.	4.4	49
15	Risk assessment of debris flows in Songhe Stream, Taiwan. Engineering Geology, 2011, 123, 100-112.	2.9	45
16	Automation model of sewerage rehabilitation planning. Water Science and Technology, 2006, 54, 225-232.	1.2	42
17	Multiobjective optimization using nondominated sorting genetic algorithm-II for allocation of energy conservation and renewable energy facilities in a campus. Energy and Buildings, 2016, 122, 120-130.	3.1	41
18	Application of Morphological Segmentation to Leaking Defect Detection in Sewer Pipelines. Sensors, 2014, 14, 8686-8704.	2.1	39

#	ARTICLE	IF	CITATIONS
19	Fusion of Infrared Thermal Image and Visible Image for 3D Thermal Model Reconstruction Using Smartphone Sensors. <i>Sensors</i> , 2018, 18, 2003.	2.1	37
20	INTEGRATION OF WATER QUALITY MODELING, REMOTE SENSING, AND GIS1. <i>Journal of the American Water Resources Association</i> , 1999, 35, 253-263.	1.0	29
21	WATER QUALITY MODELING FOR THE FEITSUI RESERVOIR IN NORTHERN TAIWAN1. <i>Journal of the American Water Resources Association</i> , 2003, 39, 671-687.	1.0	28
22	Application of remotely sensed data to the assessment of terrain factors affecting the Tsao-Ling landslide. <i>Canadian Journal of Remote Sensing</i> , 2004, 30, 593-603.	1.1	28
23	A genetic algorithm (GA) based automated classifier for remote sensing imagery. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 203-213.	1.1	28
24	Estimation of algal biological parameters using water quality modeling and SPOT satellite data. <i>Ecological Modelling</i> , 2000, 125, 1-13.	1.2	27
25	Optimized allocation of scooter battery swapping station under demand uncertainty. <i>Sustainable Cities and Society</i> , 2021, 71, 102963.	5.1	26
26	Rice Seedling Detection in UAV Images Using Transfer Learning and Machine Learning. <i>Remote Sensing</i> , 2022, 14, 2837.	1.8	26
27	FEATURE EXTRACTION OF SEWER PIPE DEFECTS USING WAVELET TRANSFORM AND CO-OCCURRENCE MATRIX. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2011, 09, 211-225.	0.9	24
28	Quantifying Flood Water Levels Using Image-Based Volunteered Geographic Information. <i>Remote Sensing</i> , 2020, 12, 706.	1.8	23
29	Hyperspectral Image Classification Using Fast and Adaptive Bidimensional Empirical Mode Decomposition With Minimum Noise Fraction. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1950-1954.	1.4	21
30	A UAV Open Dataset of Rice Paddies for Deep Learning Practice. <i>Remote Sensing</i> , 2021, 13, 1358.	1.8	20
31	Toward Automated Machine Learning-Based Hyperspectral Image Analysis in Crop Yield and Biomass Estimation. <i>Remote Sensing</i> , 2022, 14, 1114.	1.8	20
32	Trophic-dynamic modeling in a shallow eutrophic river ecosystem. <i>Ecological Modelling</i> , 1998, 105, 129-139.	1.2	16
33	Exploring Long Term Spatial Vegetation Trends in Taiwan from AVHRR NDVI3g Dataset Using RDA and HCA Analyses. <i>Remote Sensing</i> , 2016, 8, 290.	1.8	15
34	Assessment of Rice Developmental Stage Using Time Series UAV Imagery for Variable Irrigation Management. <i>Sensors</i> , 2020, 20, 5354.	2.1	14
35	Landslide-induced levee failure by high concentrated sediment flow " A case of Shan-An levee at Chenyulan River, Taiwan. <i>Engineering Geology</i> , 2011, 123, 91-99.	2.9	13
36	An Efficient Fitness Function in Genetic Algorithm Classifier for Landuse Recognition on Satellite Images. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	13

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37	Multiobjective Optimal Design of Sewerage Rehabilitation by Using the Nondominated Sorting Genetic Algorithm-II. <i>Water Resources Management</i> , 2016, 30, 487-503.	1.9	13
38	Relating Vegetation Dynamics to Climate Variables in Taiwan Using 1982-2012 NDVI3g Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1624-1639.	2.3	12
39	A stochastic multi-objective optimization decision model for energy facility allocation: a case of liquefied petroleum gas station. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 389-398.	2.1	10
40	Integrating MNF and HHT Transformations into Artificial Neural Networks for Hyperspectral Image Classification. <i>Remote Sensing</i> , 2020, 12, 2327.	1.8	10
41	A Long-Term Vegetation Recovery Estimation for Mt. Jou-Jou Using Multi-Date SPOT 1, 2, and 4 Images. <i>Remote Sensing</i> , 2017, 9, 893.	1.8	9
42	Genetic algorithm for unsupervised classification of remote sensing imagery. , 2004, , .		8
43	Timely and Quantitative Damage Assessment of Oyster Racks Using UAV Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 2862-2868.	2.3	8
44	The Application of an Unmanned Aerial System and Machine Learning Techniques for Red Clover-Grass Mixture Yield Estimation under Variety Performance Trials. <i>Remote Sensing</i> , 2021, 13, 1994.	1.8	8
45	An Automated Machine Learning Framework in Unmanned Aircraft Systems: New Insights into Agricultural Management Practices Recognition Approaches. <i>Remote Sensing</i> , 2021, 13, 3190.	1.8	7
46	Sewer pipe defects diagnosis assessment using multivariate analysis on CCTV video imagery. <i>Urban Water Journal</i> , 2017, 14, 475-482.	1.0	5
47	Assessment of Grain Harvest Moisture Content Using Machine Learning on Smartphone Images for Optimal Harvest Timing. <i>Sensors</i> , 2021, 21, 5875.	2.1	5
48	Concrete crack rehabilitation using biological enzyme. <i>Computers and Concrete</i> , 2017, 19, 413-417.	0.7	5
49	Feature extraction of sewer pipe failures by wavelet transform and co-occurrence matrix. , 2008, , .		4
50	Geostatistical Based Models for the Spatial Adjustment of Radar Rainfall Data in Typhoon Events at a High-Elevation River Watershed. <i>Remote Sensing</i> , 2020, 12, 1427.	1.8	4
51	Geometric Recognition of Moving Objects in Monocular Rotating Imagery Using Faster R-CNN. <i>Remote Sensing</i> , 2020, 12, 1908.	1.8	4
52	Application of fuzzy theory to satellite data for determining eutrophic status. , 0, , .		2
53	Estimates of Bridge Girder Conditions Based on Fuzzy Inspection Data. , 2008, , .		2
54	Decision Making Behaviors in Planning Green Buildings. , 2011, , .		2

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55	Prediction of Plant Nutrition State of Rice under Water-Saving Cultivation and Panicle Fertilization Application Decision Making. <i>Agronomy</i> , 2021, 11, 1626.	1.3	2
56	Application of Support Vector Machines to Airborne Hyper-Spectral Image Classification. <i>Lecture Notes in Electrical Engineering</i> , 2010, , 439-444.	0.3	2
57	Post-earthquake spatio-temporal landslide analysis of Huisun Experimental Forest Station. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2019, 30, 493-508.	0.3	2
58	Legal issues on public access to remote sensing data in Taiwan. , 0, , .		1
59	Legal protection and data access of remote sensing and GIS database. , 2007, , .		1
60	Using artificial neural network for outflow estimation in an ungauged area. , 2008, , .		1
61	Slope Instability of High Terrace Deposits under Extreme Weather Conditions. , 2013, , .		1
62	Evaluation of fitness functions of GA classification. , 2014, , .		1
63	Water Quality Investigation and Modeling for Feitsui Reservoir. , 2001, , 1.		0
64	DBI and SI as fitness in GA classification for SPOT4 satellite imagery. , 0, , .		0
65	Optimal cluster numbers of unsupervised classification in Minkowski spaces. , 2007, , .		0
66	Progressing Rate of Ba-Guah-Shan Gravel Tunnel Construction. , 2011, , .		0