Ming-Der Yang

List of Publications by Citations

55 papers	**1,319** citations	**21** h-index	**35** g-index
66 ext. papers	**1,721** ext. citations	**4.7** avg, IF	**4.9** L-index

#	Paper	IF	Citations
55	Automated diagnosis of sewer pipe defects based on machine learning approaches. *Expert Systems With Applications*, **2008**, 35, 1327-1337	7.8	96
54	Assessing debris-flow hazard in a watershed in Taiwan. *Engineering Geology*, **2002**, 66, 295-313	6	93
53	Spatial and Spectral Hybrid Image Classification for Rice Lodging Assessment through UAV Imagery. *Remote Sensing*, **2017**, 9, 583	5	80
52	Producing synthetic lightweight aggregates from reservoir sediments. *Construction and Building Materials*, **2012**, 28, 387-394	6.7	69
51	Design optimization of office building envelope configurations for energy conservation. *Applied Energy*, **2016**, 171, 336-346	10.7	68
50	Morphological segmentation based on edge detection for sewer pipe defects on CCTV images. *Expert Systems With Applications*, **2011**, 38, 13094-13114	7.8	65
49	Segmenting ideal morphologies of sewer pipe defects on CCTV images for automated diagnosis. *Expert Systems With Applications*, **2009**, 36, 3562-3573	7.8	64
48	Image-based 3D scene reconstruction and exploration in augmented reality. *Automation in Construction*, **2013**, 33, 48-60	9.6	63
47	Eutrophication modelling of reservoirs in Taiwan. *Environmental Modelling and Software*, **2006**, 21, 829-844	5.4	61
46	Semantic Segmentation Using Deep Learning with Vegetation Indices for Rice Lodging Identification in Multi-date UAV Visible Images. *Remote Sensing*, **2020**, 12, 633	5	57
45	Multiobjective optimization design of green building envelope material using a non-dominated sorting genetic algorithm. *Applied Thermal Engineering*, **2017**, 111, 1255-1264	5.8	55
44	Systematic image quality assessment for sewer inspection. *Expert Systems With Applications*, **2011**, 38, 1766-1776	7.8	51
43	Pavement performance prediction through fuzzy regression. *Expert Systems With Applications*, **2011**, 38, 10010-10017	7.8	36
42	Risk assessment of debris flows in Songhe Stream, Taiwan. *Engineering Geology*, **2011**, 123, 100-112	6	35
41	Automation model of sewerage rehabilitation planning. *Water Science and Technology*, **2006**, 54, 225-32	2.2	35
40	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	7	29
39	Application of morphological segmentation to leaking defect detection in sewer pipelines. *Sensors*, **2014**, 14, 8686-704	3.8	28

38	WATER QUALITY MODELING FOR THE FEITSUI RESERVOIR IN NORTHERN TAIWAN1. *Journal of the American Water Resources Association*, **2003**, 39, 671-687	2.1	26
37	A genetic algorithm (GA) based automated classifier for remote sensing imagery. *Canadian Journal of Remote Sensing*, **2007**, 33, 203-213	1.8	23
36	Fusion of Infrared Thermal Image and Visible Image for 3D Thermal Model Reconstruction Using Smartphone Sensors. *Sensors*, **2018**, 18,	3.8	23
35	FEATURE EXTRACTION OF SEWER PIPE DEFECTS USING WAVELET TRANSFORM AND CO-OCCURRENCE MATRIX. *International Journal of Wavelets, Multiresolution and Information Processing*, **2011**, 09, 211-225	0.9	21
34	Estimation of algal biological parameters using water quality modeling and SPOT satellite data. *Ecological Modelling*, **2000**, 125, 1-13	3	21
33	Application of remotely sensed data to the assessment of terrain factors affecting the Tsao-Ling landslide. *Canadian Journal of Remote Sensing*, **2004**, 30, 593-603	1.8	20
32	INTEGRATION OF WATER QUALITY MODELING, REMOTE SENSING, AND GIS1. *Journal of the American Water Resources Association*, **1999**, 35, 253-263	2.1	20
31	Adaptive autonomous UAV scouting for rice lodging assessment using edge computing with deep learning EDANet. *Computers and Electronics in Agriculture*, **2020**, 179, 105817	6.5	19
30	. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1950-1954	4.1	16
29	Trophic-dynamic modeling in a shallow eutrophic river ecosystem. *Ecological Modelling*, **1998**, 105, 129-139	3	14
28	Exploring Long Term Spatial Vegetation Trends in Taiwan from AVHRR NDVI3g Dataset Using RDA and HCA Analyses. *Remote Sensing*, **2016**, 8, 290	5	14
27	Multiobjective Optimal Design of Sewerage Rehabilitation by Using the Nondominated Sorting Genetic Algorithm-II. *Water Resources Management*, **2016**, 30, 487-503	3.7	13
26	Landslide-induced levee failure by high concentrated sediment flow A case of Shan-An levee at Chenyulan River, Taiwan. *Engineering Geology*, **2011**, 123, 91-99	6	11
25	Quantifying Flood Water Levels Using Image-Based Volunteered Geographic Information. *Remote Sensing*, **2020**, 12, 706	5	10
24	Relating Vegetation Dynamics to Climate Variables in Taiwan Using 1982 2012 NDVI3g Data. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1624-1639	4.7	9
23	A Long-Term Vegetation Recovery Estimation for Mt. Jou-Jou Using Multi-Date SPOT 1, 2, and 4 Images. *Remote Sensing*, **2017**, 9, 893	5	7
22	Optimized allocation of scooter battery swapping station under demand uncertainty. *Sustainable Cities and Society*, **2021**, 71, 102963	10.1	7
21	Timely and Quantitative Damage Assessment of Oyster Racks Using UAV Images. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 2862-2868	4.7	6

20	Assessment of Rice Developmental Stage Using Time Series UAV Imagery for Variable Irrigation Management. *Sensors*, **2020**, 20,	3.8	6
19	A UAV Open Dataset of Rice Paddies for Deep Learning Practice. *Remote Sensing*, **2021**, 13, 1358	5	6
18	A stochastic multi-objective optimization decision model for energy facility allocation: a case of liquefied petroleum gas station. *Clean Technologies and Environmental Policy*, **2020**, 22, 389-398	4.3	5
17	Genetic algorithm for unsupervised classification of remote sensing imagery **2004**,		4
16	Integrating MNF and HHT Transformations into Artificial Neural Networks for Hyperspectral Image Classification. *Remote Sensing*, **2020**, 12, 2327	5	4
15	The Application of an Unmanned Aerial System and Machine Learning Techniques for Red Clover-Grass Mixture Yield Estimation under Variety Performance Trials. *Remote Sensing*, **2021**, 13, 1994	5	4
14	An efficient fitness function in genetic algorithm classifier for Landuse recognition on satellite images. *Scientific World Journal, The*, **2014**, 2014, 264512	2.2	3
13	Concrete crack rehabilitation using biological enzyme. *Computers and Concrete*, **2017**, 19, 413-417		3
12	Toward Automated Machine Learning-Based Hyperspectral Image Analysis in Crop Yield and Biomass Estimation. *Remote Sensing*, **2022**, 14, 1114	5	3
11	Geostatistical Based Models for the Spatial Adjustment of Radar Rainfall Data in Typhoon Events at a High-Elevation River Watershed. *Remote Sensing*, **2020**, 12, 1427	5	2
10	Sewer pipe defects diagnosis assessment using multivariate analysis on CCTV video imagery. *Urban Water Journal*, **2017**, 14, 475-482	2.3	2
9	Post-earthquake spatio-temporal landslide analysis of Huisun Experimental Forest Station. *Terrestrial, Atmospheric and Oceanic Sciences*, **2019**, 30, 493-508	1.8	2
8	An Automated Machine Learning Framework in Unmanned Aircraft Systems: New Insights into Agricultural Management Practices Recognition Approaches. *Remote Sensing*, **2021**, 13, 3190	5	2
7	Decision Making Behaviors in Planning Green Buildings **2011**,		1
6	Feature extraction of sewer pipe failures by wavelet transform and co-occurrence matrix **2008**,		1
5	**2008**,		1
4	Application of Support Vector Machines to Airborne Hyper-Spectral Image Classification. *Lecture Notes in Electrical Engineering*, **2010**, 439-444	0.2	1
3	Geometric Recognition of Moving Objects in Monocular Rotating Imagery Using Faster R-CNN. *Remote Sensing*, **2020**, 12, 1908	5	0

LIST OF PUBLICATIONS

2   Prediction of Plant Nutrition State of Rice under Water-Saving Cultivation and Panicle Fertilization Application Decision Making. *Agronomy*, **2021**, 11, 1626   3.6   0

1   Water Quality Investigation and Modeling for Feitsui Reservoir **2001**, 1   5