

Chih-Chiang Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

927
citations

18
h-index

27
g-index

60
ext. papers

1,049
ext. citations

3.6
avg, IF

5.35
L-index

#	Paper	IF	Citations
60	Wind Features Extracted from Weather Simulations for Wind-Wave Prediction Using High-Resolution Neural Networks. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 1257	2.4	0
59	COLLAPSE WARNING SYSTEM USING LSTM NEURAL NETWORKS FOR CONSTRUCTION DISASTER PREVENTION IN EXTREME WIND WEATHER. <i>Journal of Civil Engineering and Management</i> , 2021 , 27, 230-245	3.2	45
58	Modular Neural Networks with Fully Convolutional Networks for Typhoon-Induced Short-Term Rainfall Predictions. <i>Sensors</i> , 2021 , 21,	3.8	5
57	Real-Time Rainfall Forecasts Based on Radar Reflectivity during Typhoons: Case Study in Southeastern Taiwan. <i>Sensors</i> , 2021 , 21,	3.8	3
56	Forecasting of Typhoon-Induced Wind-Wave by Using Convolutional Deep Learning on Fused Data of Remote Sensing and Ground Measurements. <i>Sensors</i> , 2021 , 21,	3.8	2
55	Comparison of River Basin Water Level Forecasting Methods: Sequential Neural Networks and Multiple-Input Functional Neural Networks. <i>Remote Sensing</i> , 2020 , 12, 4172	5	5
54	Estimation of Hourly Rainfall during Typhoons Using Radar Mosaic-Based Convolutional Neural Networks. <i>Remote Sensing</i> , 2020 , 12, 896	5	13
53	Nearshore two-step typhoon wind-wave prediction using deep recurrent neural networks. <i>Journal of Hydroinformatics</i> , 2020 , 22, 346-367	2.6	9
52	Extreme Gradient Boosting Model for Rain Retrieval using Radar Reflectivity from Various Elevation Angles. <i>Remote Sensing</i> , 2020 , 12, 2203	5	4
51	Development of Stacked Long Short-Term Memory Neural Networks with Numerical Solutions for Wind Velocity Predictions. <i>Advances in Meteorology</i> , 2020 , 2020, 1-18	1.7	7
50	Real-time Extreme Rainfall Evaluation System for the Construction Industry Using Deep Convolutional Neural Networks. <i>Water Resources Management</i> , 2020 , 34, 2787-2805	3.7	2
49	Typhoon Quantitative Rainfall Prediction from Big Data Analytics by Using the Apache Hadoop Spark Parallel Computing Framework. <i>Atmosphere</i> , 2020 , 11, 870	2.7	3
48	Evaluation of Photovoltaic Power Generation by using Deep Learning in Solar Panels Installed in Buildings. <i>Energies</i> , 2019 , 12, 3564	3.1	4
47	Study on Wind Simulations Using Deep Learning Techniques during Typhoons: A Case Study of Northern Taiwan. <i>Atmosphere</i> , 2019 , 10, 684	2.7	7
46	Regional Forecasting of Wind Speeds during Typhoon Landfall in Taiwan: A Case Study of Westward-Moving Typhoons. <i>Atmosphere</i> , 2018 , 9, 141	2.7	9
45	Nearshore Wave Predictions Using Data Mining Techniques during Typhoons: A Case Study near Taiwan's Northeastern Coast. <i>Energies</i> , 2018 , 11, 11	3.1	12
44	Artificial Neural Network for Forecasting Wave Heights along a Ship's Route during Hurricanes. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2018 , 144, 04017042	1.7	13

43	Using Adjacent Buoy Information to Predict Wave Heights of Typhoons Offshore of Northeastern Taiwan. <i>Water (Switzerland)</i> , 2018 , 10, 1800	3	5
42	Comparison of methods for non-stationary hydrologic frequency analysis: Case study using annual maximum daily precipitation in Taiwan. <i>Journal of Hydrology</i> , 2017 , 545, 197-211	6	32
41	Trade-off analysis of discharge-desiltation-turbidity and ANN analysis on sedimentation of a combined reservoir-leach system under multi-phase and multi-layer conjunctive releasing operation. <i>Journal of Hydrology</i> , 2017 , 553, 596-623	6	0
40	Conceptual weather environmental forecasting system for identifying potential failure of under-construction structures during typhoons. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017 , 168, 48-59	3.7	12
39	Examining El Niño Southern Oscillation Effects in the Subtropical Zone to Forecast Long-Distance Total Rainfall from Typhoons: A Case Study in Taiwan. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017 , 34, 2141-2161	2	9
38	Risk Analysis of Reservoir Operations Considering Short-Term Flood Control and Long-Term Water Supply: A Case Study for the Da-Han Creek Basin in Taiwan. <i>Water (Switzerland)</i> , 2017 , 9, 424	3	10
37	Predictions of Surface Solar Radiation on Tilted Solar Panels using Machine Learning Models: A Case Study of Tainan City, Taiwan. <i>Energies</i> , 2017 , 10, 1660	3.1	18
36	Prediction of Influential Operational Compost Parameters for Monitoring Composting Process. <i>Environmental Engineering Science</i> , 2016 , 33, 494-506	2	11
35	Rainfall-Runoff Prediction Using Dynamic Typhoon Information and Surface Weather Characteristic Considering Monsoon Effects. <i>Water Resources Management</i> , 2016 , 30, 877-895	3.7	2
34	Comparing single- and two-segment statistical models with a conceptual rainfall-runoff model for river streamflow prediction during typhoons. <i>Environmental Modelling and Software</i> , 2016 , 85, 112-128	5.2	9
33	Real-Time Forecast of Reservoir Inflow Hydrographs Incorporating Terrain and Monsoon Effects during Typhoon Invasion by Novel Intelligent Numerical-Statistic Impulse Techniques. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04015019	1.8	4
32	Comparing lazy and eager learning models for water level forecasting in river-reservoir basins of inundation regions. <i>Environmental Modelling and Software</i> , 2015 , 63, 137-155	5.2	18
31	Forecasting surface wind speeds over offshore islands near Taiwan during tropical cyclones: Comparisons of data-driven algorithms and parametric wind representations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1826-1847	4.4	13
30	Diagnosing Rain Occurrences Using Passive Microwave Imagery: A Comparative Study on Probabilistic Graphical Models and Black Box Models. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015 , 32, 1729-1744	2	6
29	Optimal Spatial Design of Capacity and Quantity of Rainwater Harvesting Systems for Urban Flood Mitigation. <i>Water (Switzerland)</i> , 2015 , 7, 5173-5202	3	44
28	Coupled Heuristic Prediction of Long Lead-Time Accumulated Total Inflow of a Reservoir during Typhoons Using Deterministic Recurrent and Fuzzy Inference-Based Neural Network. <i>Water (Switzerland)</i> , 2015 , 7, 6516-6550	3	3
27	Using Artificial Intelligence to Retrieve the Optimal Parameters and Structures of Adaptive Network-Based Fuzzy Inference System for Typhoon Precipitation Forecast Modeling. <i>Advances in Meteorology</i> , 2015 , 2015, 1-22	1.7	3
26	Parameter Automatic Calibration Approach for Neural-Network-Based Cyclonic Precipitation Forecast Models. <i>Water (Switzerland)</i> , 2015 , 7, 3963-3977	3	19

25	Multi-phase intelligent decision model for reservoir real-time flood control during typhoons. <i>Journal of Hydrology</i> , 2015 , 522, 11-34	6	18
24	Meta-heuristic Bayesian networks retrieval combined polarization corrected temperature and scattering index for precipitations. <i>Neurocomputing</i> , 2014 , 136, 71-81	5.4	3
23	Application of Neural Networks and Optimization Model in Conjunctive Use of Surface Water and Groundwater. <i>Water Resources Management</i> , 2014 , 28, 2813-2832	3.7	21
22	Simulation of operational typhoon rainfall nowcasting using radar reflectivity combined with meteorological data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6578-6595	4.4	12
21	Surface Wind Nowcasting in the Penghu Islands Based on Classified Typhoon Tracks and the Effects of the Central Mountain Range of Taiwan. <i>Weather and Forecasting</i> , 2014 , 29, 1425-1450	2.1	9
20	Two-Stage Pumping Control Model for Flood Mitigation in Inundated Urban Drainage Basins. <i>Water Resources Management</i> , 2014 , 28, 425-444	3.7	18
19	Intelligent real-time operation of a pumping station for an urban drainage system. <i>Journal of Hydrology</i> , 2013 , 489, 85-97	6	28
18	Soft computing techniques in ensemble precipitation nowcast. <i>Applied Soft Computing Journal</i> , 2013 , 13, 793-805	7.5	17
17	Improvement of Typhoon Precipitation Forecast Efficiency by Coupling SSM/I Microwave Data with Climatologic Characteristics and Precipitation. <i>Weather and Forecasting</i> , 2013 , 28, 614-630	2.1	8
16	Wavelet kernel support vector machines forecasting techniques: Case study on water-level predictions during typhoons. <i>Expert Systems With Applications</i> , 2012 , 39, 5189-5199	7.8	34
15	Study on the Trade-Off between Ecological Base Flow and Optimized Water Supply. <i>Water Resources Management</i> , 2012 , 26, 3095-3112	3.7	10
14	Discretized and Continuous Target Fields for the Reservoir Release Rules During Floods. <i>Water Resources Management</i> , 2012 , 26, 3457-3477	3.7	9
13	Wavelet Support Vector Machines for Forecasting Precipitation in Tropical Cyclones: Comparisons with GSVM, Regression, and MM5. <i>Weather and Forecasting</i> , 2012 , 27, 438-450	2.1	32
12	Decision Tree-Based Classifier Combined with Neural-Based Predictor for Water-Stage Forecasts in a River Basin During Typhoons: A Case Study in Taiwan. <i>Environmental Engineering Science</i> , 2012 , 29, 1082-1116	19	
11	Retrievals for the Rainfall Rate over Land Using Special Sensor Microwave Imager Data during Tropical Cyclones: Comparisons of Scattering Index, Regression, and Support Vector Regression. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1567-1578	3.7	18
10	RBF Neural Networks Combined with Principal Component Analysis Applied to Quantitative Precipitation Forecast for a Reservoir Watershed during Typhoon Periods. <i>Journal of Hydrometeorology</i> , 2012 , 13, 722-734	3.7	17
9	Neural-Based Decision Trees Classification Techniques: A Case Study in Water Resources Management. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 377-382	0.2	1
8	FIDs Classifier for Artificial Intelligence and Its Application. <i>Lecture Notes in Computer Science</i> , 2012 , 1101-1119	19	

7	Optimal tree-based release rules for real-time flood control operations on a multipurpose multireservoir system. <i>Journal of Hydrology</i> , 2009 , 365, 213-224	6	66
6	Derived operating rules for a reservoir operation system: Comparison of decision trees, neural decision trees and fuzzy decision trees. <i>Water Resources Research</i> , 2008 , 44,	5-4	35
5	Decision-tree analysis on optimal release of reservoir storage under typhoon warnings. <i>Natural Hazards</i> , 2008 , 44, 65-84	3	19
4	Multireservoir Flood-Control Optimization with Neural-Based Linear Channel Level Routing Under Tidal Effects. <i>Water Resources Management</i> , 2008 , 22, 1625-1647	3-7	27
3	Multireservoir real-time operations for flood control using balanced water level index method. <i>Journal of Environmental Management</i> , 2008 , 88, 1624-39	7-9	51
2	Optimization and capacity expansion of a water distribution system. <i>Advances in Water Resources</i> , 2008 , 31, 776-786	4-7	37
1	A multipurpose reservoir real-time operation model for flood control during typhoon invasion. <i>Journal of Hydrology</i> , 2007 , 336, 282-293	6	102