Gwo-Fong Lin

List of Publications by Year
in descending order

83 papers	2,224 citations	230014 27 h-index	263392 45 g-index
87 all docs	87 docs citations	87 times ranked	2324 citing authors

#	Article	IF	Citations
1	An optimal integration of multiple machine learning techniques to real-time reservoir inflow forecasting. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1541-1561.	1.9	5
2	Real-time forecasting of suspended sediment concentrations in reservoirs by the optimal integration of multiple machine learning techniques. Journal of Hydrology: Regional Studies, 2021, 34, 100804.	1.0	9
3	The Effect of Porosity Change in Bentonite Caused by Decay Heat on Radionuclide Transport through Buffer Material. Applied Sciences (Switzerland), 2021, 11, 7933.	1.3	2
4	Development of a real-time forecasting model for turbidity current arrival time to improve reservoir desilting operation. Hydrological Sciences Journal, 2020, 65, 1022-1035.	1.2	2
5	Outflow sediment concentration forecasting by integrating machine learning approaches and time series analysis in reservoir desilting operation. Stochastic Environmental Research and Risk Assessment, 2020, 34, 849-866.	1.9	9
6	Using ensemble precipitation forecasts and a rainfall-runoff model for hourly reservoir inflow forecasting during typhoon periods. Journal of Hydro-Environment Research, 2019, 22, 29-37.	1.0	8
7	Real-Time Water-Level Forecasting Using Dilated Causal Convolutional Neural Networks. Water Resources Management, 2019, 33, 3759-3780.	1.9	50
8	Filtering Continuous River Surface Velocity Radar Data. Water (Switzerland), 2019, 11, 764.	1.2	2
9	A Support Vector Machine Forecasting Model for Typhoon Flood Inundation Mapping and Early Flood Warning Systems. Water (Switzerland), 2018, 10, 1734.	1.2	42
10	Effective real-time forecasting of inundation maps for early warning systems during typhoons. MATEC Web of Conferences, 2018, 147, 03014.	0.1	0
11	The very short-term rainfall forecasting for a mountainous watershed by means of an ensemble numerical weather prediction system in Taiwan. Journal of Hydrology, 2017, 546, 60-70.	2.3	22
12	An integrated two-stage support vector machine approach to forecast inundation maps during typhoons. Journal of Hydrology, 2017, 547, 236-252.	2.3	48
13	A Novel Spatiotemporal Statistical Downscaling Method for Hourly Rainfall. Water Resources Management, 2017, 31, 3465-3489.	1.9	5
14	Assessment of susceptibility to rainfall-induced landslides using improved self-organizing linear output map, support vector machine, and logistic regression. Engineering Geology, 2017, 224, 62-74.	2.9	91
15	A Hybrid Statistical Downscaling Method Based on the Classification of Rainfall Patterns. Water Resources Management, 2017, 31, 377-401.	1.9	14
16	A Forecasting Approach Combining Self-Organizing Map with Support Vector Regression for Reservoir Inflow during Typhoon Periods. Advances in Meteorology, 2016, 2016, 1-12.	0.6	12
17	Improving the Long Lead-Time Inundation Forecasts Using Effective Typhoon Characteristics. Water Resources Management, 2016, 30, 4247-4271.	1.9	10
18	An Hourly Streamflow Forecasting Model Coupled with an Enforced Learning Strategy. Water (Switzerland), 2015, 7, 5876-5895.	1.2	25

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19	A real-time forecasting model for the spatial distribution of typhoon rainfall. Journal of Hydrology, 2015, 521, 302-313.	2.3	38
20	A novel method for flood forecasting based on the nonlinear computational units cascaded model. Paddy and Water Environment, 2015, 13, 115-123.	1.0	0
21	Flash flood warnings using the ensemble precipitation forecasting technique: A case study on forecasting floods in Taiwan caused by typhoons. Journal of Hydrology, 2015, 520, 367-378.	2.3	57
22	An indirect approach for discharge estimation: A combination among micro-genetic algorithm, hydraulic model, and in situ measurement. Flow Measurement and Instrumentation, 2014, 39, 46-53.	1.0	15
23	Improving the forecasts of extreme streamflow by support vector regression with the data extracted by self-organizing map. Hydrological Processes, 2014, 28, 386-397.	1.1	44
24	Development of a support‐vector‐machine‐based model for daily pan evaporation estimation. Hydrological Processes, 2013, 27, 3115-3127.	1.1	8
25	The effect of data quality on model performance with application to daily evaporation estimation. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1661-1671.	1.9	5
26	Typhoon flood forecasting using integrated two-stage Support Vector Machine approach. Journal of Hydrology, 2013, 486, 334-342.	2.3	70
27	Development of an effective data-driven model for hourly typhoon rainfall forecasting. Journal of Hydrology, 2013, 495, 52-63.	2.3	40
28	Ensemble forecasting of typhoon rainfall and floods over a mountainous watershed in Taiwan. Journal of Hydrology, 2013, 506, 55-68.	2.3	82
29	Forecasting tropical cyclone intensity change in the western North Pacific. Journal of Hydroinformatics, 2013, 15, 952-966.	1.1	2
30	Development of a real-time regional-inundation forecasting model for the inundation warning system. Journal of Hydroinformatics, 2013, 15, 1391-1407.	1.1	25
31	SUPPORT VECTOR MACHINE-BASED MODEL FOR DAILY EVAPORATION ESTIMATION. , 2012, , 1-10.		1
32	An RBF network with a two-step learning algorithm for developing a reservoir inflow forecasting model. Journal of Hydrology, 2011, 405, 439-450.	2.3	51
33	An enforced support vector machine model for construction contractor default prediction. Automation in Construction, 2011, 20, 1242-1249.	4.8	53
34	Development of Design Hyetographs for Ungauged Sites Using an Approach Combining PCA, SOM and Kriging Methods. Water Resources Management, 2011, 25, 1995-2013.	1.9	12
35	Construction of design hyetographs for locations without observed data. Hydrological Processes, 2010, 24, 481-491.	1.1	3
36	A well‐balanced upstream flux‐splitting finite‐volume scheme for shallow‐water flow simulations with irregular bed topography. International Journal for Numerical Methods in Fluids, 2010, 62, 927-944.	0.9	9

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37	Sea level fluctuations on the east coast of Taiwan that overlie continental shelf break. Stochastic Environmental Research and Risk Assessment, 2010, 24, 29-46.	1.9	1
38	Using typhoon characteristics to improve the long lead-time flood forecasting of a small watershed. Journal of Hydrology, 2010, 380, 450-459.	2.3	11
39	Effective typhoon characteristics and their effects on hourly reservoir inflow forecasting. Advances in Water Resources, 2010, 33, 887-898.	1.7	40
40	INFLUENCE OF TYPHOON CHARACTERISTICS ON FLOOD FORECASTING. , 2010, , 295-305.		0
41	Support vector machine-based models for hourly reservoir inflow forecasting during typhoon-warning periods. Journal of Hydrology, 2009, 372, 17-29.	2.3	103
42	A hybrid neural network model for typhoon-rainfall forecasting. Journal of Hydrology, 2009, 375, 450-458.	2.3	85
43	An RBFâ€based model with an information processor for forecasting hourly reservoir inflow during typhoons. Hydrological Processes, 2009, 23, 3598-3609.	1.1	27
44	Uncertainty propagation of hydrodispersive transfer in an aquifer: an illustration of one-dimensional contaminant transport with slug injection. Stochastic Environmental Research and Risk Assessment, 2009, 23, 613-620.	1.9	5
45	An empirical model for estimating hydraulic conductivity of highly disturbed clastic sedimentary rocks in Taiwan. Engineering Geology, 2009, 109, 213-223.	2.9	34
46	Effective forecasting of hourly typhoon rainfall using support vector machines. Water Resources Research, 2009, 45, .	1.7	86
47	Assessment of long-term variation in displacement for a GPS site adjacent to a transition zone between collision and subduction. Stochastic Environmental Research and Risk Assessment, 2008, 22, 401-410.	1.9	5
48	Spectral decomposition of periodic ground water fluctuation in a coastal aquifer. Hydrological Processes, 2008, 22, 1755-1765.	1.1	18
49	A systematic approach to the input determination for neural network rainfallâ€"runoff models. Hydrological Processes, 2008, 22, 2524-2530.	1.1	21
50	Finiteâ€volume multiâ€stage schemes for shallowâ€water flow simulations. International Journal for Numerical Methods in Fluids, 2008, 57, 177-204.	0.9	17
51	A SOM-based approach to estimating design hyetographs of ungauged sites. Journal of Hydrology, 2007, 339, 216-226.	2.3	42
52	A nonlinear rainfallâ€"runoff model embedded with an automated calibration method â€" Part 2: The automated calibration method. Journal of Hydrology, 2007, 341, 196-206.	2.3	10
53	A nonlinear rainfallâ€"runoff model embedded with an automated calibration method â€" Part 1: The model. Journal of Hydrology, 2007, 341, 186-195.	2.3	15
54	A case study of tunnel excavation adjacent to a steep slope. , 2007, , .		0

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55	An improved neural network approach to the determination of aquifer parameters. Journal of Hydrology, 2006, 316, 281-289.	2.3	42
56	Identification of homogeneous regions for regional frequency analysis using the self-organizing map. Journal of Hydrology, 2006, 324, 1-9.	2.3	154
57	Performing cluster analysis and discrimination analysis of hydrological factors in one step. Advances in Water Resources, 2006, 29, 1573-1585.	1.7	27
58	Assessment of Risk due to Debris Flow Events: A Case Study in Central Taiwan. Natural Hazards, 2006, 39, 1-14.	1.6	10
59	Reply to comment by R. Artebrant on â€œFinite-volume component-wise TVD schemes for 2D shallow water equationsâ€. Advances in Water Resources, 2005, 28, 427.	1.7	1
60	An upstream flux-splitting finite-volume scheme for 2D shallow water equations. International Journal for Numerical Methods in Fluids, 2005, 48, 1149-1174.	0.9	21
61	Development of regional design hyetographs. Hydrological Processes, 2005, 19, 937-946.	1.1	31
62	Time series forecasting by combining the radial basis function network and the self-organizing map. Hydrological Processes, 2005, 19, 1925-1937.	1.1	55
63	Application of an artificial neural network to typhoon rainfall forecasting. Hydrological Processes, 2005, 19, 1825-1837.	1.1	66
64	Quantifying uncertainty of the semivariogram of transmissivity of an existing groundwater monitoring network. Hydrological Processes, 2005, 19, 2023-2034.	1.1	2
65	Performance of highâ€resolution TVD schemes for 1D damâ€break simulations. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2005, 28, 771-782.	0.6	3
66	Determination of aquifer parameters using radial basis function network approach. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2005, 28, 241-249.	0.6	9
67	High-resolution TVD schemes in finite volume method for hydraulic shock wave modeling. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 376-389.	0.7	14
68	An irrigation water distribution model for area of mixed cultivation. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2004, 27, 343-356.	0.6	0
69	Reliability-Based Delineation of Debris-Flow Deposition Areas. Natural Hazards, 2004, 32, 395-412.	1.6	3
70	Application of spectral analysis to determine hydraulic diffusivity of a sandy aquifer(Pingtung) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	1.1	23
71	A spatial interpolation method based on radial basis function networks incorporating a semivariogram model. Journal of Hydrology, 2004, 288, 288-298.	2.3	103
72	A non-linear rainfall-runoff model using radial basis function network. Journal of Hydrology, 2004, 289, 1-8.	2.3	142

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73	A reliability-based selective index for regional flood frequency analysis methods. Hydrological Processes, 2003, 17, 2653-2663.	1.1	6
74	Finite-volume component-wise TVD schemes for 2D shallow water equations. Advances in Water Resources, 2003, 26, 861-873.	1.7	69
75	Contaminant transport in fractured media: analytical solution and sensitivity study considering pulse, Dirac delta and sinusoid input sources. Hydrological Processes, 2002, 16, 3265-3278.	1.1	5
76	A HIGH-RESOLUTION FVS SCHEME FOR THE DAM-BREAK PROBLEM. , 2002, , .		0
77	Potential benefits of increased application of water to paddy fields in Taiwan. Hydrological Processes, 2001, 15, 1515-1524.	1.1	18
78	General stochastic instantaneous unit hydrograph. Journal of Hydrology, 1996, 182, 227-238.	2.3	6
79	Assessment of aggregated hydrologic time series modelling. Journal of Hydrology, 1994, 156, 447-458.	2.3	4
80	An aggregation-disaggregation approach for hydrologic time series modelling. Journal of Hydrology, 1992, 138, 543-557.	2.3	8
81	Multistage disaggregation processes in stochastic hydrology. Water Resources Management, 1992, 6, 101-115.	1.9	0
82	Parameter estimation for seasonal to subseasonal disaggregation. Journal of Hydrology, 1990, 120, 65-77.	2.3	10
83	COMBINATION OF CLUSTER ANALYSIS AND DISCRIMINATION ANALYSIS USING SELF-ORGANIZING MAP. , 0, , 25-30.		0