

Taesam Lee

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,291
citations

394421

19
h-index

395702

33
g-index

85
all docs

85
docs citations

85
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-based analysis of bivariate copula tail dependence for drought duration and severity. <i>Hydrological Processes</i> , 2013, 27, 1454-1463.	2.6	116
2	Copula-based stochastic simulation of hydrological data applied to Nile River flows. <i>Hydrology Research</i> , 2011, 42, 318-330.	2.7	84
3	Employing Machine Learning Algorithms for Streamflow Prediction: A Case Study of Four River Basins with Different Climatic Zones in the United States. <i>Water Resources Management</i> , 2020, 34, 4113-4131.	3.9	80
4	Nonparametric Simulation of Single-Site Seasonal Streamflows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2010, 15, 284-296.	1.9	62
5	Heterogeneous mixture distributions for modeling wind speed, application to the UAE. <i>Renewable Energy</i> , 2016, 91, 40-52.	8.9	57
6	Predictor selection for downscaling GCM data with LASSO. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
7	Probability Distributions for a Quantile Mapping Technique for a Bias Correction of Precipitation Data: A Case Study to Precipitation Data Under Climate Change. <i>Water (Switzerland)</i> , 2019, 11, 1475.	2.7	53
8	Nonparametric statistical temporal downscaling of daily precipitation to hourly precipitation and implications for climate change scenarios. <i>Journal of Hydrology</i> , 2014, 510, 182-196.	5.4	49
9	Monthly Precipitation Forecasting with a Neuro-Fuzzy Model. <i>Water Resources Management</i> , 2012, 26, 4467-4483.	3.9	47
10	Deep Learning-Based Maximum Temperature Forecasting Assisted with Meta-Learning for Hyperparameter Optimization. <i>Atmosphere</i> , 2020, 11, 487.	2.3	46
11	Stochastic simulation on reproducing long-term memory of hydroclimatological variables using deep learning model. <i>Journal of Hydrology</i> , 2020, 582, 124540.	5.4	42
12	Stochastic simulation of nonstationary oscillation hydroclimatic processes using empirical mode decomposition. <i>Water Resources Research</i> , 2012, 48, .	4.2	41
13	EMD and LSTM Hybrid Deep Learning Model for Predicting Sunspot Number Time Series with a Cyclic Pattern. <i>Solar Physics</i> , 2020, 295, 1.	2.5	31
14	Copula-based modeling and stochastic simulation of seasonal intermittent streamflows for arid regions. <i>Journal of Hydro-Environment Research</i> , 2015, 9, 604-613.	2.2	28
15	Meta-heuristic maximum likelihood parameter estimation of the mixture normal distribution for hydro-meteorological variables. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 347-358.	4.0	24
16	Increasing Neurons or Deepening Layers in Forecasting Maximum Temperature Time Series?. <i>Atmosphere</i> , 2020, 11, 1072.	2.3	24
17	Nonparametric multivariate weather generator and an extreme value theory for bandwidth selection. <i>Journal of Hydrology</i> , 2012, 452-453, 161-171.	5.4	23
18	Identification of model order and number of neighbors for k-nearest neighbor resampling. <i>Journal of Hydrology</i> , 2011, 404, 136-145.	5.4	21

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19	The Spatial and Temporal Structure of Extreme Rainfall Trends in South Korea. <i>Water (Switzerland)</i> , 2017, 9, 809.	2.7	21
20	An EMD and PCA hybrid approach for separating noise from signal, and signal in climate change detection. <i>International Journal of Climatology</i> , 2012, 32, 624-634.	3.5	20
21	Integrating nonstationary behaviors of typhoon and non-typhoon extreme rainfall events in East Asia. <i>Scientific Reports</i> , 2017, 7, 5097.	3.3	19
22	Heterogeneous Mixture Distributions for Modeling Multisource Extreme Rainfalls*. <i>Journal of Hydrometeorology</i> , 2015, 16, 2639-2657.	1.9	18
23	KNN-based local linear regression for the analysis and simulation of low flow extremes under climatic influence. <i>Climate Dynamics</i> , 2017, 49, 3493-3511.	3.8	18
24	Regional quantile delta mapping method using regional frequency analysis for regional climate model precipitation. <i>Journal of Hydrology</i> , 2021, 596, 125685.	5.4	17
25	An orchestrated climate song from the Pacific and Atlantic Oceans and its implication on climatological processes. <i>International Journal of Climatology</i> , 2013, 33, 1015-1020.	3.5	16
26	Flood flow simulation using CMAX radar rainfall estimates in orographic basins. <i>Meteorological Applications</i> , 2014, 21, 596-604.	2.1	16
27	Bias correction of RCM outputs using mixture distributions under multiple extreme weather influences. <i>Theoretical and Applied Climatology</i> , 2019, 137, 201-216.	2.8	15
28	Nonparametric temporal downscaling with event-based population generating algorithm for RCM daily precipitation to hourly: Model development and performance evaluation. <i>Journal of Hydrology</i> , 2017, 547, 498-516.	5.4	14
29	Multisite stochastic simulation of daily precipitation from copula modeling with a gamma marginal distribution. <i>Theoretical and Applied Climatology</i> , 2018, 132, 1089-1098.	2.8	13
30	A Novel Statistical Method to Temporally Downscale Wind Speed Weibull Distribution Using Scaling Property. <i>Energies</i> , 2018, 11, 633.	3.1	13
31	Statistical Downscaling for Hydrological and Environmental Applications. , 0, , .		12
32	Total least square method applied to rating curves. <i>Hydrological Processes</i> , 2014, 28, 4057-4066.	2.6	11
33	Basin rotation method for analyzing the directional influence of moving storms on basin response. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 251-263.	4.0	11
34	Multivariate Nonstationary Oscillation Simulation of Climate Indices With Empirical Mode Decomposition. <i>Water Resources Research</i> , 2019, 55, 5033-5052.	4.2	11
35	Assessing the Applicability of Random Forest, Stochastic Gradient Boosted Model, and Extreme Learning Machine Methods to the Quantitative Precipitation Estimation of the Radar Data: A Case Study to Gwangdeoksan Radar, South Korea, in 2018. <i>Advances in Meteorology</i> , 2019, 2019, 1-17.	1.6	11
36	Frequency Analysis of Nonidentically Distributed Hydrometeorological Extremes Associated with Large-Scale Climate Variability Applied to South Korea. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 1193-1212.	1.5	10

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37	Spatial downscaling of MODIS Chlorophyll-a with machine learning techniques over the west coast of the Yellow Sea in South Korea. <i>Journal of Oceanography</i> , 2021, 77, 103-122.	1.7	10
38	Application of Harmony Search to Design Storm Estimation from Probability Distribution Models. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-11.	0.9	9
39	Serial Multiple Mediation Analyses: How to Enhance Individual Public Health Emergency Preparedness and Response to Environmental Disasters. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 223.	2.6	9
40	Error influence of radar rainfall estimate on rainfall-runoff simulation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 283-292.	4.0	8
41	Spatial Downscaling of MODIS Chlorophyll-a with Genetic Programming in South Korea. <i>Remote Sensing</i> , 2020, 12, 1412.	4.0	8
42	Stochastic simulation of precipitation data for preserving key statistics in their original domain and application to climate change analysis. <i>Theoretical and Applied Climatology</i> , 2016, 124, 91-102.	2.8	7
43	Climate change inspector with intentionally biased bootstrapping (CCIIBB ver.1.0) methodology development. <i>Geoscientific Model Development</i> , 2017, 10, 525-536.	3.6	7
44	Climate Change Adaptation to Extreme Rainfall Events on a Local Scale in Namyangju, South Korea. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	1.9	7
45	Serial dependence properties in multivariate streamflow simulation with independent decomposition analysis. <i>Hydrological Processes</i> , 2012, 26, 961-972.	2.6	6
46	Discrete <i>k</i>-nearest neighbor resampling for simulating multisite precipitation occurrence and model adaption to climate change. <i>Geoscientific Model Development</i> , 2019, 12, 1189-1207.	3.6	6
47	Influence analysis of central and Eastern Pacific El Niño to seasonal rainfall patterns over China using the intentional statistical simulations. <i>Atmospheric Research</i> , 2020, 233, 104706.	4.1	5
48	Emulators of a Physical Model for Estimating Leaf Wetness Duration. <i>Agronomy</i> , 2021, 11, 216.	3.0	5
49	Spatiotemporal characteristics and hydrological implications of downscaled hourly precipitation climate scenarios for South Korea. <i>International Journal of Climatology</i> , 2022, 42, 1253-1266.	3.5	5
50	Using Copulas for Stochastic Streamflow Generation. , 2008, , .		4
51	Remote Sensing-Based Rainfall Variability for Warming and Cooling in Indo-Pacific Ocean with Intentional Statistical Simulations. <i>Remote Sensing</i> , 2020, 12, 1458.	4.0	4
52	Reanalysis Product-Based Nonstationary Frequency Analysis for Estimating Extreme Design Rainfall. <i>Atmosphere</i> , 2021, 12, 191.	2.3	4
53	Rainfall-runoff simulation using satellite rainfall in a scarce data catchment. <i>Journal of Applied Water Engineering and Research</i> , 2021, 9, 161-174.	1.8	4
54	Investigation of hydrological variability in the Korean Peninsula with the ENSO teleconnections. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 374, 165-173.	1.0	4

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55	Assessing spatially dependent errors in radar rainfall estimates for rainfall-runoff simulation. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1823-1838.	4.0	3
56	Spatio-temporal dependent errors of radar rainfall estimates in flood forecasting for the Nam River Dam basin. Meteorological Applications, 2018, 25, 322-336.	2.1	3
57	Stepwise extreme learning machine for statistical downscaling of daily maximum and minimum temperature. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1035-1056.	4.0	3
58	Allocating Underground Dam Sites Using Remote Sensing and GIS Case Study on the Southwestern Plain of Tehran Province, Iran. Journal of the Indian Society of Remote Sensing, 2019, 47, 989-1002.	2.4	3
59	Temporal Downscaling of Precipitation from Daily to Hourly Based on Nonparametric Approach: Assessment of the Climate Change Impacts on the Hourly Precipitation for the Gyeongnam Region. Korean Society of Hazard Mitigation, 2014, 14, 301-308.	0.2	3
60	UAV Photogrammetry-Based Flood Early Warning System Applied to Migok-cheon Stream, South Korea. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	1.9	3
61	Hydrological and Meteorological Extreme Events in Asia: Understanding, Modeling, Vulnerability, and Adaptation Measures. Advances in Meteorology, 2016, 2016, 1-1.	1.6	2
62	Conditional stochastic simulation model for spatial downscaling for assessing the effects of climate change on hydro-meteorological variables. Climatic Change, 2018, 150, 163-180.	3.6	2
63	Is Deep Better in Extreme Temperature Forecasting?. Korean Society of Hazard Mitigation, 2019, 19, 55-62.	0.2	2
64	Safety First? Lessons from the Hapcheon Dam Flood in 2020. Sustainability, 2022, 14, 2975.	3.2	2
65	Generating More Hydroelectricity While Ensuring the Safety: Resilience Assessment Study for Bukhangang Watershed in South Korea. Applied Sciences (Switzerland), 2022, 12, 4583.	2.5	2
66	Latent negative precipitation for the delineation of a zero-precipitation area in spatial interpolations. Scientific Reports, 2021, 11, 20426.	3.3	1
67	Parameter Estimation of the Mixture Normal Distribution for Hydro-Meteorological Variables using Meta-Heuristic Maximum Likelihood. Korean Society of Hazard Mitigation, 2014, 14, 93-99.	0.2	1
68	Temporal downscaling of daily precipitation to 10-min data for assessment of climate change impact on floods in small-size watersheds applied to Jinju, South Korea. Climate Dynamics, 2022, 59, 2381-2407.	3.8	1
69	Evaluation of a Depth-Based Multivariate Nearest Neighbor Resampling Method with Stormwater Quality Data. Mathematical Problems in Engineering, 2014, 2014, 1-7.	1.1	0
70	Trace selection method for a best representative in stochastic downscaling of precipitation. Theoretical and Applied Climatology, 2020, 140, 603-617.	2.8	0
71	Hydrometeorological Applications of Deep Learning. Water Science and Technology Library, 2021, , 163-190.	0.3	0
72	Alternating Inappropriate Employment of the Thiessen Method in Estimating Design Flood for Small and Ungaged Basins. Korean Society of Hazard Mitigation, 2015, 15, 395-403.	0.2	0