Adam P Piotrowski

List of Publications by Year
in descending order

35 papers	1,645 citations	331259 21 h-index	360668 35 g-index
36 all docs	36 docs citations	36 times ranked	1543 citing authors

#	Article	IF	Citations
1	A comparison of methods to avoid overfitting in neural networks training in the case of catchment runoff modelling. Journal of Hydrology, 2013, 476, 97-111.	2.3	185
2	Review of Differential Evolution population size. Swarm and Evolutionary Computation, 2017, 32, 1-24.	4.5	181
3	Population size in Particle Swarm Optimization. Swarm and Evolutionary Computation, 2020, 58, 100718.	4.5	174
4	Optimizing neural networks for river flow forecasting â€“ Evolutionary Computation methods versus the Levenbergâ€“Marquardt approach. Journal of Hydrology, 2011, 407, 12-27.	2.3	98
5	Comparing various artificial neural network types for water temperature prediction in rivers. Journal of Hydrology, 2015, 529, 302-315.	2.3	97
6	Adaptive Memetic Differential Evolution with Global and Local neighborhood-based mutation operators. Information Sciences, 2013, 241, 164-194.	4.0	95
7	Differential Evolution algorithms applied to Neural Network training suffer from stagnation. Applied Soft Computing Journal, 2014, 21, 382-406.	4.1	81
8	Swarm Intelligence and Evolutionary Algorithms: Performance versus speed. Information Sciences, 2017, 384, 34-85.	4.0	76
9	Step-by-step improvement of JADE and SHADE-based algorithms: Success or failure?. Swarm and Evolutionary Computation, 2018, 43, 88-108.	4.5	63
10	How novel is the â€œnovelâ€• black hole optimization approach?. Information Sciences, 2014, 267, 191-200.	4.0	60
11	Some metaheuristics should be simplified. Information Sciences, 2018, 427, 32-62.	4.0	53
12	Differential Evolution algorithm with Separated Groups for multi-dimensional optimization problems. European Journal of Operational Research, 2012, 216, 33-46.	3.5	52
13	L-SHADE optimization algorithms with population-wide inertia. Information Sciences, 2018, 468, 117-141.	4.0	52
14	Impact of deep learning-based dropout on shallow neural networks applied to stream temperature modelling. Earth-Science Reviews, 2020, 201, 103076.	4.0	47
15	Comparing large number of metaheuristics for artificial neural networks training to predict water temperature in a natural river. Computers and Geosciences, 2014, 64, 136-151.	2.0	37
16	Regarding the rankings of optimization heuristics based on artificially-constructed benchmark functions. Information Sciences, 2015, 297, 191-201.	4.0	35
17	River/stream water temperature forecasting using artificial intelligence models: a systematic review. Acta Geophysica, 2020, 68, 1433-1442.	1.0	35
18	Comparison of evolutionary computation techniques for noise injected neural network training to estimate longitudinal dispersion coefficients in rivers. Expert Systems With Applications, 2012, 39, 1354-1361.	4.4	34

#	Article	IF	Citations
19	Simple modifications of the nonlinear regression stream temperature model for daily data. Journal of Hydrology, 2019, 572, 308-328.	2.3	27
20	Product-Units neural networks for catchment runoff forecasting. Advances in Water Resources, 2012, 49, 97-113.	1.7	24
21	Performance of the air2stream model that relates air and stream water temperatures depends on the calibration method. Journal of Hydrology, 2018, 561, 395-412.	2.3	24
22	Are modern metaheuristics successful in calibrating simple conceptual rainfallâ€“runoff models?. Hydrological Sciences Journal, 2017, 62, 606-625.	1.2	21
23	Influence of the choice of stream temperature model on the projections of water temperature in rivers. Journal of Hydrology, 2021, 601, 126629.	2.3	18
24	How does the calibration method impact the performance of the air2water model for the forecasting of lake surface water temperatures?. Journal of Hydrology, 2021, 597, 126219.	2.3	17
25	Searching for structural bias in particle swarm optimization and differential evolution algorithms. Swarm Intelligence, 2016, 10, 307-353.	1.3	15
26	Relationship Between Calibration Time and Final Performance of Conceptual Rainfall-Runoff Models. Water Resources Management, 2019, 33, 19-37.	1.9	7
27	Evaluation of temporal concentration profiles for ungauged rivers following pollution incidents. Hydrological Sciences Journal, 2011, 56, 883-894.	1.2	5
28	Are Evolutionary Algorithms Effective in Calibrating Different Artificial Neural Network Types for Streamwater Temperature Prediction?. Water Resources Management, 2016, 30, 1217-1237.	1.9	4
29	Input dropout in product unit neural networks for stream water temperature modelling. Journal of Hydrology, 2021, 598, 126253.	2.3	4
30	Across Neighborhood Search algorithm: A comprehensive analysis. Information Sciences, 2018, 435, 334-381.	4.0	3
31	Joint Optimization of Conceptual Rainfall-Runoff Model Parameters and Weights Attributed to Meteorological Stations. Water Resources Management, 2019, 33, 4509-4524.	1.9	3
32	Differential evolution and particle swarm optimization against COVID-19. Artificial Intelligence Review, 2022, 55, 2149-2219.	9.7	3
33	Air2water model with nine parameters for lake surface temperature assessment. Limnologica, 2022, 94, 125967.	0.7	3
34	May the same numerical optimizer be used when searching either for the best or for the worst solution to a real-world problem?. Information Sciences, 2016, 373, 124-148.	4.0	2
35	On the importance of training methods and ensemble aggregation for runoff prediction by means of artificial neural networks. Hydrological Sciences Journal, 0, , 1-23.	1.2	2