

Meisam Babanezhad

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

873
citations

361045

20
h-index

500791

28
g-index

43
all docs

43
docs citations

43
times ranked

320
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of fluid pattern in a shear flow on intelligent neural nodes using ANFIS and LBM. <i>Neural Computing and Applications</i> , 2020, 32, 13313-13321.	3.2	52
2	Liquid–gas phase chemical reactors: Development of 3D hybrid model based on CFD–adaptive network–based fuzzy inference system. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1676-1684.	0.9	46
3	Prediction of Nanofluid Temperature Inside the Cavity by Integration of Grid Partition Clustering Categorization of a Learning Structure with the Fuzzy System. <i>ACS Omega</i> , 2020, 5, 3571-3578.	1.6	40
4	Changes in the Number of Membership Functions for Predicting the Gas Volume Fraction in Two-Phase Flow Using Grid Partition Clustering of the ANFIS Method. <i>ACS Omega</i> , 2020, 5, 16284-16291.	1.6	37
5	Developing Intelligent Algorithm as a Machine Learning Overview over the Big Data Generated by Euler–Euler Method To Simulate Bubble Column Reactor Hydrodynamics. <i>ACS Omega</i> , 2020, 5, 20558-20566.	1.6	35
6	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. <i>Scientific Reports</i> , 2020, 10, 21304.	1.6	34
7	Prediction of thermal distribution and fluid flow in the domain with multi-solid structures using Cubic-Interpolated Pseudo-Particle model. <i>PLoS ONE</i> , 2020, 15, e0233850.	1.1	34
8	Performance and application analysis of ANFIS artificial intelligence for pressure prediction of nanofluid convective flow in a heated pipe. <i>Scientific Reports</i> , 2021, 11, 902.	1.6	34
9	ANFIS grid partition framework with difference between two sigmoidal membership functions structure for validation of nanofluid flow. <i>Scientific Reports</i> , 2020, 10, 15395.	1.6	34
10	Influence of number of membership functions on prediction of membrane systems using adaptive network based fuzzy inference system (ANFIS). <i>Scientific Reports</i> , 2020, 10, 16110.	1.6	33
11	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. <i>Scientific Reports</i> , 2020, 10, 19280.	1.6	33
12	Pattern recognition of the fluid flow in a 3D domain by combination of Lattice Boltzmann and ANFIS methods. <i>Scientific Reports</i> , 2020, 10, 15908.	1.6	32
13	Functional input and membership characteristics in the accuracy of machine learning approach for estimation of multiphase flow. <i>Scientific Reports</i> , 2020, 10, 17793.	1.6	29
14	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. <i>ACS Omega</i> , 2020, 5, 30826-30835.	1.6	28
15	Simulation of a Bubble-Column Reactor by Three-Dimensional CFD: Multidimension- and Function-Adaptive Network-Based Fuzzy Inference System. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 477-490.	2.3	27
16	Flow visualization and analysis of thermal distribution for the nanofluid by the integration of fuzzy c-means clustering ANFIS structure and CFD methods. <i>Journal of Visualization</i> , 2020, 23, 97-110.	1.1	26
17	Application of adaptive network-based fuzzy inference system (ANFIS) in the numerical investigation of Cu/water nanofluid convective flow. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100793.	2.8	23
18	Bubbly flow prediction with randomized neural cells artificial learning and fuzzy systems based on $k\text{-}\epsilon$ turbulence and Eulerian model data set. <i>Scientific Reports</i> , 2020, 10, 13837.	1.6	22

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19	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. <i>Neural Computing and Applications</i> , 2021, 33, 6819-6833.	3.2	22
20	Velocity prediction of Cu/water nanofluid convective flow in a circular tube: Learning CFD data by differential evolution algorithm based fuzzy inference system (DEFIS). <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105373.	2.9	21
21	Modeling the degradation/recovery of open-circuit voltage in perovskite and thin film solar cells. <i>Materials and Design</i> , 2017, 114, 339-344.	3.3	20
22	Prediction of flow characteristics in the bubble column reactor by the artificial pheromone-based communication of biological ants. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 367-378.	1.5	20
23	Thermal prediction of turbulent forced convection of nanofluid using computational fluid dynamics coupled genetic algorithm with fuzzy interface system. <i>Scientific Reports</i> , 2021, 11, 1308.	1.6	18
24	Investigation on performance of particle swarm optimization (PSO) algorithm based fuzzy inference system (PSOFIS) in a combination of CFD modeling for prediction of fluid flow. <i>Scientific Reports</i> , 2021, 11, 1505.	1.6	17
25	Prediction of gas velocity in two-phase flow using developed fuzzy logic system with differential evolution algorithm. <i>Scientific Reports</i> , 2021, 11, 2380.	1.6	15
26	Prediction of Nanofluid Characteristics and Flow Pattern on Artificial Differential Evolution Learning Nodes and Fuzzy Framework. <i>ACS Omega</i> , 2020, 5, 22091-22098.	1.6	15
27	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. <i>Scientific Reports</i> , 2021, 11, 1209.	1.6	14
28	Evaluation of product of two sigmoidal membership functions (psigmf) as an ANFIS membership function for prediction of nanofluid temperature. <i>Scientific Reports</i> , 2020, 10, 22337.	1.6	13
29	Liquid temperature prediction in bubbly flow using ant colony optimization algorithm in the fuzzy inference system as a trainer. <i>Scientific Reports</i> , 2020, 10, 21884.	1.6	11
30	Numerical investigation of water forced convection inside a copper metal foam tube: Genetic algorithm (GA) based fuzzy inference system (GAFIS) contribution with CFD modeling. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122016.	2.5	11
31	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. <i>Scientific Reports</i> , 2020, 10, 21502.	1.6	10
32	Pressure and temperature predictions of Al ₂ O ₃ /water nanofluid flow in a porous pipe for different nanoparticles volume fractions: combination of CFD and ACOFIS. <i>Scientific Reports</i> , 2021, 11, 60.	1.6	10
33	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. <i>ACS Omega</i> , 2021, 6, 239-252.	1.6	10
34	Prediction of velocity profile of water based copper nanofluid in a heated porous tube using CFD and genetic algorithm. <i>Scientific Reports</i> , 2021, 11, 10623.	1.6	8
35	Numerical investigation of nanofluid flow using CFD and fuzzy-based particle swarm optimization. <i>Scientific Reports</i> , 2021, 11, 20973.	1.6	8
36	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. <i>ACS Omega</i> , 2020, 5, 25882-25890.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Ability of neural network cells in learning teacher motivation scale and prediction of motivation with fuzzy logic system. Scientific Reports, 2021, 11, 9721.	1.6	5
38	Simulation of liquid flow with a combination artificial intelligence flow field and Adams's Bashforth method. Scientific Reports, 2020, 10, 16719.	1.6	4
39	Prediction of fluid interface between dispersed and matrix phases by Lattice Boltzmann-adaptive network-based fuzzy inference system. Journal of Experimental and Theoretical Artificial Intelligence, 2020, , 1-13.	1.8	1
40	Investigation of Input Variables Influence in Patterns Learning of Fluid Flow Behavior Using Fuzzy Differential Evolution. Arabian Journal for Science and Engineering, 0, , .	1.7	1