

# Makarand C Deo

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

2,649  
citations

279487

23  
h-index

189595

50  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real time wave forecasting using neural networks. Ocean Engineering, 1998, 26, 191-203.	1.9	249
2	Forecasting wind with neural networks. Marine Structures, 2003, 16, 35-49.	1.6	242
3	Neural networks for wave forecasting. Ocean Engineering, 2001, 28, 889-898.	1.9	237
4	Hydrological Forecasting Using Neural Networks. Journal of Hydrologic Engineering - ASCE, 2000, 5, 180-189.	0.8	168
5	Neural Networks for Estimation of Scour Downstream of a Ski-Jump Bucket. Journal of Hydraulic Engineering, 2005, 131, 898-908.	0.7	161
6	On-line wave prediction. Marine Structures, 2002, 15, 57-74.	1.6	133
7	Real-time wave forecasting using genetic programming. Ocean Engineering, 2008, 35, 1166-1172.	1.9	112
8	Alternative neural networks to estimate the scour below spillways. Advances in Engineering Software, 2008, 39, 689-698.	1.8	100
9	Suitability of different neural networks in daily flow forecasting. Applied Soft Computing Journal, 2007, 7, 968-978.	4.1	83
10	Estimation of pile group scour using neural networks. Applied Ocean Research, 2003, 25, 225-234.	1.8	81
11	Real-time wave forecasts off the western Indian coast. Applied Ocean Research, 2007, 29, 72-79.	1.8	80
12	Prediction of breaking waves with neural networks. Ocean Engineering, 2003, 30, 1163-1178.	1.9	68
13	Estimation of scour below spillways using neural networks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 61-69.	0.7	66
14	Filling up gaps in wave data with genetic programming. Marine Structures, 2008, 21, 177-195.	1.6	61
15	Artificial neural network to translate offshore satellite wave data to coastal locations. Ocean Engineering, 2005, 32, 1917-1932.	1.9	46
16	Neural-Network-Based Data Assimilation to Improve Numerical Ocean Wave Forecast. IEEE Journal of Oceanic Engineering, 2016, 41, 944-953.	2.1	43
17	Real time wave forecasting using wind time history and numerical model. Ocean Modelling, 2011, 36, 26-39.	1.0	42
18	Wave parameter estimation using neural networks. Marine Structures, 2004, 17, 536-550.	1.6	41

#	ARTICLE	IF	CITATIONS
19	Genetic programming for retrieving missing information in wave records along the west coast of India. Applied Ocean Research, 2007, 29, 99-111.	1.8	38
20	RBF network for spatial mapping of wave heights. Marine Structures, 2005, 18, 289-300.	1.6	37
21	Effect of climate change on shoreline shifts at a straight and continuous coast. Estuarine, Coastal and Shelf Science, 2016, 183, 221-234.	0.9	33
22	Evaluation of wind extremes and wind potential under changing climate for Indian offshore using ensemble of 10 GCMs. Ocean and Coastal Management, 2016, 121, 141-152.	2.0	30
23	Using Artificial Neural Networks to Forecast Monthly and Seasonal Sea Surface Temperature Anomalies in the Western Indian Ocean. The International Journal of Ocean and Climate Systems, 2013, 4, 133-150.	0.8	25
24	Interpolation of wave heights. Ocean Engineering, 2000, 27, 907-919.	1.9	24
25	Wave tranquility studies using neural networks. Marine Structures, 2003, 16, 419-436.	1.6	23
26	Effect of climate change on design wind at the Indian offshore locations. Ocean Engineering, 2010, 37, 1061-1069.	1.9	23
27	Analysis of Wave Directional Spreading Using Neural Networks. Journal of Waterway, Port, Coastal and Ocean Engineering, 2002, 128, 30-37.	0.5	21
28	Derivation of wave spectrum using data driven methods. Marine Structures, 2009, 22, 594-609.	1.6	21
29	Changes in the design and operational wind due to climate change at the Indian offshore sites. Marine Structures, 2014, 37, 33-53.	1.6	20
30	Reevaluation of Design Waves Off the Western Indian Coast Considering Climate Change. Marine Technology Society Journal, 2016, 50, 88-98.	0.3	20
31	Wave Prediction Using Genetic Programming and Model Trees. Journal of Coastal Research, 2012, 279, 43-50.	0.1	19
32	Changes in the shoreline at Paradip Port, India in response to climate change. Geomorphology, 2018, 303, 243-255.	1.1	19
33	Estimation of wave directional spreading in shallow water. Ocean Engineering, 1998, 26, 83-98.	1.9	18
34	Neural network genetic programming for sediment transport. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2007, 160, 113-119.	1.4	18
35	Derivation of coastal wind and wave parameters from offshore measurements of TOPEX satellite using ANN. Coastal Engineering, 2007, 54, 187-196.	1.7	16
36	Inverse modeling to derive wind parameters from wave measurements. Applied Ocean Research, 2008, 30, 120-129.	1.8	14

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37	Alternative data-driven methods to estimate wind from waves by inverse modeling. <i>Natural Hazards</i> , 2009, 49, 293-310.	1.6	14
38	Prediction of ocean currents with artificial neural networks. <i>ISH Journal of Hydraulic Engineering</i> , 2015, 21, 14-27.	1.1	13
39	Prediction of littoral drift with artificial neural networks. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 267-275.	1.9	12
40	Wave simulation and forecasting using wind time history and data-driven methods. <i>Ships and Offshore Structures</i> , 2010, 5, 253-266.	0.9	12
41	Framework for assessment of climate change impact on offshore wind energy. <i>Meteorological Applications</i> , 2018, 25, 94-104.	0.9	12
42	Evaluation of estuary shoreline shift in response to climate change: A study from the central west coast of India. <i>Land Degradation and Development</i> , 2018, 29, 3571-3583.	1.8	12
43	Design wave estimation considering directional distribution of waves. <i>Ocean Engineering</i> , 2004, 31, 2343-2352.	1.9	11
44	Review of Applications of Neuro-Wavelet Techniques in Water Flows. <i>INAE Letters</i> , 2016, 1, 99-104.	1.0	11
45	Performance of the CORDEX regional climate models in simulating offshore wind and wind potential. <i>Theoretical and Applied Climatology</i> , 2019, 135, 1449-1464.	1.3	11
46	Genetic programming for real-time prediction of offshore wind. <i>Ships and Offshore Structures</i> , 2009, 4, 77-88.	0.9	10
47	Derivation of design waves along the Indian coastline incorporating climate change. <i>Journal of Marine Science and Technology</i> , 2017, 22, 61-70.	1.3	10
48	Sea Level Rise and Shoreline Change under Changing Climate Along the Indian Coastline. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	10
49	Directional spread parameter at intermediate water depth. <i>Ocean Engineering</i> , 2000, 27, 889-905.	1.9	9
50	Estimation of wave spectral shapes using ANN. <i>Advances in Engineering Software</i> , 2005, 36, 750-756.	1.8	8
51	Soft and hard computing approaches for real-time prediction of currents in a tide-dominated coastal area. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2007, 221, 147-163.	0.3	8
52	Application of Artificial Neural Network Model in Estimation of Wave Spectra. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2006, 132, 415-418.	0.5	7
53	Impact of active and break wind spells on the demandâ€“supply balance in wind energy in India. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 81-97.	0.9	7
54	Locally weighted projection regression for predicting hydraulic parameters. <i>Civil Engineering and Environmental Systems</i> , 2010, 27, 71-80.	0.4	6

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55	Inverse estimation of wind from the waves measured by high-frequency radar. International Journal of Remote Sensing, 2012, 33, 2985-3003.	1.3	6
56	Interpolation of the gaps in current maps generated by high-frequency radar. International Journal of Remote Sensing, 2016, 37, 5135-5154.	1.3	6
57	Effect of Climate Change on Wind Persistence at Selected Indian Offshore Locations. Procedia Engineering, 2015, 116, 615-622.	1.2	5
58	Real Time Wave Forecasting Using Wind Time History and Genetic Programming. The International Journal of Ocean and Climate Systems, 2014, 5, 249-259.	0.8	4
59	Evaluation of the wave height used in the design of offshore structures considering the effects of climate change. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2013, 227, 233-242.	0.3	3
60	Projected impact of climate change on waves at Mumbai High. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2015, 168, 20-29.	1.4	3
61	Sediment transport and shoreline shifts in response to climate change at the tidal inlets of Chilika, India. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 372-387.	0.3	3
62	Generalized Estimation of Wave Force Spectra. Journal of Waterway, Port, Coastal and Ocean Engineering, 1988, 114, 175-190.	0.5	2
63	SURGE ANALYSIS IN A LARGE LIFT IRRIGATION PROJECT THROUGH PHYSICAL MODELING—A CASE STUDY. ISH Journal of Hydraulic Engineering, 2007, 13, 102-114.	1.1	1
64	Reply to: Discussion on “Genetic programming for retrieving missing information in wave records along the west coast of India” [Applied Ocean Research 2007; 29(3): 99–111]; A.H. Gandomi, A.H. Alavi, S.S. Sadat Hosseini. Applied Ocean Research, 2008, 30, 340.	1.8	1
65	Authors’ reply to the discussion by, M. Ozger and A. Altunkaynak on: Estimation of wave spectral shapes using ANN by, R. Naithani and M.C. Deo. Advances in Engineering Software, 2007, 38, 69.	1.8	0
66	Data Driven Methods to Analyze Wave BUOY Observations. , 2009, , .		0
67	Authors response to comments on article in Natural Hazards (2008) NHAZ 524, Article 9299, DOI 10.1007/s11069-008-9299-2. Natural Hazards, 2010, 52, 669-669.	1.6	0
68	Discussion: Neural network “ genetic programming for sediment transport. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2010, 163, 135-136.	1.4	0
69	Effect of Different Wind Inputs in the Evaluation of Design Waves. Marine Technology Society Journal, 2018, 52, 94-105.	0.3	0