Select area to restrict search in scientific publication database:

☐ Author　☐ Title　☐ Abstract　☐ Keywords　[　　　　　　　　]　[Search]

Authors: N. Bachok, N. L. Aleng, N. M. Arifin, A. Ishak, N. Senu

Abstract:

The problem of laminar fluid flow which results from the shrinking of a permeable surface in a nanofluid has been investigated numerically. The model used for the nanofluid incorporates the effects of Brownian motion and thermophoresis. A similarity solution is presented which depends on the mass suction parameter S, Prandtl number Pr, Lewis number Le, Brownian motion number Nb and thermophoresis number Nt. It was found that the reduced Nusselt number is decreasing function of each dimensionless number.

Keywords: Boundary layer, Nanofluid, Shrinking sheet, Brownian motion, Thermophoresis, Similarity solution.

Procedia APA BibTeX Chicago EndNote Harvard JSON MLA RIS XML WASET Download Paper

151　Integrating Artificial Neural Network and Taguchi Method on Constructing the Real Estate Appraisal Model

Authors: Mu-Yen Chen, Min-Hsuan Fan, Chia-Chen Chen, Siang-Yu Jhong

Abstract:

In recent years, real estate prediction or valuation has been a topic of discussion in many developed countries. Improper hype created by investors leads to fluctuating prices of real estate, affecting many consumers to purchase their own homes. Therefore, scholars from various countries have conducted research in real estate valuation and prediction. With the back-propagation neural network that has been popular in recent years and the orthogonal array in the Taguchi method, this study aimed to find the optimal parameter combination at different levels of orthogonal array after the system presented different parameter combinations, so that the artificial neural network obtained the most accurate results. The experimental results also demonstrated that the method presented in the study had a better result than traditional machine learning. Finally, it also showed that the model proposed in this study had the optimal predictive effect, and could significantly reduce the cost of time in simulation operation. The best predictive results could be found with a fewer number of experiments more efficiently. Thus users could predict a real estate transaction price that is not far from the current actual prices.

Keywords: Artificial Neural Network, Taguchi Method, Real Estate Valuation Model.

Procedia APA BibTeX Chicago EndNote Harvard JSON MLA RIS XML WASET Download Paper

152　River Analysis System Model for Proposed Weirs at Downstream of Large Dam, Thailand

Authors: S. Chuenchooklin

Abstract:

This research was conducted in the Lower Ping River Basin downstream of the Bhumibol Dam and the Lower Wang River Basin in Tak Province, Thailand. Most of the tributary streams of the Ping can be considered as ungauged catchments. There are 10- pumping station installation at both river banks of the Ping in Tak Province. Recently, most of them could not fully operate due to the water amount in the river below the level that would be pumping, even though included water from the natural river and released flow from the Bhumibol Dam. The aim of this research was to increase the performance of those pumping stations using weir projects in the Ping. Therefore, the river analysis system model (HEC-RAS) was applied to study the hydraulic behavior of water surface profiles in the Ping River with both cases of existing conditions and proposed weirs during the violent flood in 2011 and severe drought in 2013. Moreover, the hydrologic modeling system (HMS) was applied to simulate lateral streamflow hydrograph from ungauged catchments of the Ping. The results of HEC-RAS model calibration with existing conditions in 2011 showed best trial roughness coefficient for the main channel of 0.026. The simulated water surface levels fitted to observation data with R^2 of 0.8175. The model was applied to 3 proposed cascade weirs with 2.35 m in height and found surcharge water level only 0.27 m higher than the existing condition in 2011. Moreover, these weirs could maintain river water levels and increase of those pumping performances during less river flow in 2013.

Keywords: HEC-RAS, HMS, pumping stations, cascade weirs.

Procedia APA BibTeX Chicago EndNote Harvard JSON MLA RIS XML WASET Download Paper
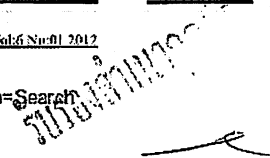
	Title	Type	SJR	H index	Total Docs. (2013)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
1												
20181 / 20180	World Academy of Science, Engineering and Technology	j	0.125	12	0	4,591	0	781	4,591	0.17	0	France
20182 / 20181	Journal of Artificial Intelligence	j	0.125	6	31	62	440	26	59	0.43	14.19	Pakistan
20183 / 20182	Proceedings of the 10th (2012) ISOPE Pacific/Asia Offshore Mechanics Symposium, PACOMS	p	0.125	1	0	43	0	4	41	0.1	0	United States
20184 / 20183	Therapeutic Research	j	0.125	5	200	678	1,845	38	669	0.07	9.23	Japan
20185 / 20184	Proceedings - 2011 Agile Conference, Agile 2011	p	0.125	2	0	47	0	10	45	0.22	0	United States
20186 / 20185	Caspian Journal of Internal Medicine	j	0.125	3	36	134	795	17	128	0.14	22.08	Iran
20187 / 20186	US Endocrinology	j	0.125	3	31	60	1,767	14	56	0.12	57	United Kingdom
20188 / 20187	Proceedings - 2010 3rd International Conference on Biomedical Engineering and	p	0.125	5	0	712	0	139	702	0	0	United States
20189 / 20188	Lettre de Medecine Physique et de Readaptation	j	0.125	2	41	119	803	7	100	0.06	19.59	France
20190 / 20189	Proceedings - 2010 Agile Conference, AGILE 2010	p	0.125	3	0	11	0	6	10	0	0	United States
20191 / 20190	Artificial General Intelligence - Proceedings of the Third Conference on Artificial General	p	0.125	3	0	43	0	11	41	0	0	United States
20192 / 20191	Waldokologie Online	j	0.125	4	6	38	266	11	34	0.35	44.33	Germany
	Revista Latinoamericana de											