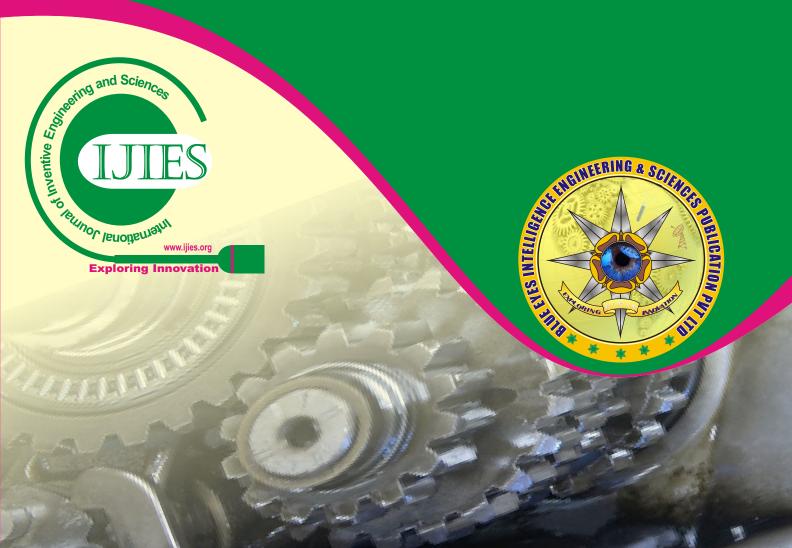


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	Paper Title:	Development of Genetic Algorithm based Neural Network Model for Predicting Workability a Strength of High Performance Concrete	and
	adopting Genetic characteristics of 0.425, 0.45, 0.475 cement by minera network has been Network learned to training epochs. T Tensile strength, I the GA based AN accuracy of about models are address Keywords: Artifi	aper presents an results of experimental investigation conducted to evaluate the possibilities of Algorithm (GA) based Artificial Neural Networks (ANN) to predict the workability and strength High Performance Concrete (HPC) with different water-binder ratios (0.3, 0.325, 0.35, 0.375, 0.4, & 0.5) and different aggregate binder ratios (2, 2.5 & 3) and different percentage replacement of 1 admixtures such as Flyash, Metakaolin and Silicafume (0, 10, 20 & 30%) as input vectors. The trained with experimental data obtained from laboratory experimentation. The Artificial Neural he relationship for predicting the Compaction factor, Vee-bee time, Compressive of HPC in 1300 The Artificial Neural Network learned the relationship for predicting the Compressive strength, Flexural strength and Young's Modulus of HPC in 2000 training epochs. After successful learning N models predicted the workability and strength characteristics satisfying all the constraints with an 95%. The various stages involved in the development of genetic algorithm based neural network sed at length in this paper.	
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	Authors:	Athoub Mousa Khaled Alzuwayed
	Paper Title:	A Survey of Active Filters

Abstract: This paper presents and reviews the response of the low pass, high pass filter, band pass filter and band stop filters. Additionally, it presents and reviews the characteristic of Chebyshev, Butterworth and Bessel and how we implement each circuit then introduce examples for Sallen-Key Low-Pass Filter, Cascaded Low-Pass Filters and Multiple-Feedback Band-Pass Filter.

Keywords: Bessel, Butterworth, Chebyshev characteristics, Pass filters.

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	Pap	aper Title: Improved of Stein-Type Estimator of the Variance of Normal Distribution via Shrinkage Estimation				
	Abstract: This paper concerned with pre- test single stage shrinkage estimator for estimating the variance (\Box 2) of normal distribution N(\Box , \Box 2), when a prior estimate (\Box 02) about (\Box 2) is available from the past experiences or similar cases as well as the mean is known (say \Box 0), by using Stein-type estimator, shrinkage weight factor \Box (.) and pre-test region R. Expressions for Bias, Mean Squared Error and Relative Efficiency of the proposed estimator are derived. Conclusions and numerical results are presented for Relative Efficiency and Bias Ratio. Comparisons were made with the existing estimators.					
	 Keywords: Normal Distribution, Stein-Type Estimator, Single Stage Shrinkage Estimator, Prior Estimate, Bias Ratio, Mean Squared Error and Relative Efficiency. References: 					
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