

Grey Relational Analysis Code In Matlab

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Grey Relational Analysis Code In

Grey Relational Analysis And Its Application On ...

2 Grey Theory and Grey Relational Analysis Grey System (GS) is the system of which part information is known and part information is unknown Up to now, GS theory has been developing a set of theories and techniques including grey mathematics, Grey relational analysis, grey modelling, grey clustering, grey forecasting, grey decision making, grey

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High Technology ETF Forecasting: Application of Grey ...

Jo-Hui Chen, John Francis Diaz, Yu-Fang Huang - High Technology ETF Forecasting: Application of Grey Relational Analysis and Artificial Neural Networks - Frontiers in Finance and Economics - Vol 10 N°2, 129 - 155 131 utilizes the BPN to model the Istanbul stock exchange, and reports that the use of the ANN model achieves better results

Metrics Threshold Analysis On the Basis of Clustering ...

accumulated from Promise Data Repository Grey relational technique is taken into account as the source for normalized values The results of the grey relational analysis are then used to conduct fault-proneness classification based on the accuracy (F-measure) of one dataset and compared against the results of another datasets

Journal of Centrum Cathedra - SSRN

Journal of Centrum Cathedra An integrated approach to grey relational analysis, analytic hierarchy process and data envelopment analysis Mohammad Sadegh Pakkar Article information: To cite this document: Mohammad Sadegh Pakkar , (2016),"An integrated approach to ...

Financial Performance Evaluation of General Insurance ...

and where data does not fit, normal, grey relational analysis as developed by Deng (1982), is the method of choice The aim of this study is to investigate the financial performance of non- Table 1 below presents the general insurers and the code given to each insurer for the purpose of this study Table 1: List of General Insurance

GRA for Multi Attribute Decision Making in Neutrosophic ...

problem based on grey relational analysis in neutrosophic cubic set environment is investigated In the decision making situation, the attribute weights are considered as single valued neutrosophic sets The neutrosophic weights are converted into crisp weights Both positive and negative GRA coefficients, and weighted GRA coefficients

MULTI-RESPONSE OPTIMIZATION OF PROCESS PARAMETERS ...

optimization is carried out using grey relational analysis (GRA) The optimum setting which produced high MRR and least surface roughness (R_a) are, the drill diameter - 6 mm, cutting speed - 50 m/s, feed-rate - 40 mm/minute and coolant flow rate - 62 ml/s Keywords: MRR, Surface roughness, Taguchi method, ANOVA, GRA, Al6061-SiC

Optimization of control parameters for mechanical and wear ...

of the carburizing process was obtained via Grey relational analysis By analyzing the Grey relational grade we find the degree of influence of each factor on the quality target By this study we found that carburizing temperature was the most dominated factor, which mostly influences the mechanical and wear properties of carburized mild steel

Introduction to Grey System Theory - Research Information Ltd

Grey Relational Space The grey relational space (GRS) [1, 181] is one that describes the posture relationships between one main factor and all the other factors in a given system A GRS is a binary set denoted by (X, T) where X is a collection composed of sequences x_i to be compared and reference sequence x_r , r is a map set cal-

PAPER OPEN ACCESS Optimization of one direction tool path ...

the machining process [13] Maiyar et al deduced through grey relational analysis that a suitable combination of cutting velocity, feed rate and depth of cut improved the MRR and surface roughness significantly [14] Lu et al compared grey relational analysis with the principal component analysis where the conclusion stated

Rough Neutrosophic Multi-Attribute Decision-Making Based ...

grey relational analysis Rest of the paper is organized in the following way Section 2 presents preliminaries of neutrosophic sets and rough neutrosophic sets Section 3 is devoted to present rough neutrosophic multi-attribute decision-making based on grey relational analysis Section 4 presents a numerical example of the proposed method

Application of RSM with Grey Relational analysis in metal ...

relational grade using grey relational analysis while electro chemical polishing of the stainless steel The grey relational analysis based on grey system theory can be used for solving the complicated interrelationships among the multi -responses [14, 15, 16] A grey relational grade is obtained to evaluate the multiple responses

Indian Journal of Science and Technology, DOI: 10.17485 ...

Abstract Process parameters optimization of multiple response characteristics of WEDM on Inconel-825 super alloy using Fuzzy- Grey relational analysis is presented in this paper

THE OPTIMIZATION OF WOVEN FABRIC TENSILE STRENGTH ...

optimization problem Taguchi Method Based on Grey Relational Analysis is a new approach, considering at least two and more than two quality characteristics collectively Taguchi applications based on Grey Relational Analysis are used in various industry fields (7-15) In this study, the effects of woven fabrics' weaving structure,

APPLYING TAGUCHI AND GREY RELATIONAL METHODS TO A ...

For grey relational analysis, the experimental results for Nu number and friction factor are first normalized in the range between 0 and 1, which is termed, grey relational generation Using the grey relational analysis and the statistical analysis of variance, the optimal combination of parameters can be predicted

Optimization of Diesel Engine Parameters for Performance ...

Grey relational analysis, proposed by Deng in 1982, which is commonly used for assessing the degree of correlation analysis, responses are normalized (between zeros to one) which is known as grey relational generation Grey relational coefficient is calculated using normalized data responses is averaged to get overall grey relational grade

Financial Performance Evaluation of Sport Clubs Traded in ...

Using the Grey Relational Analysis (GRA) method performance has been measured by means of liquidity, leverage and profitability Ten financial ratios have been used for the study

Neutrosophic Soft Multi-Attribute Group Decision Making ...

District -North 24 Parganas, Pin code-743126, West Bengal, India Abstract - The objective of the paper is to present neutrosophic soft multi attribute group decision making based on grey relational analysis involving multiple decision makers The concept of

1.Oluwaseyi Ayodele AJIBADE, 2. OPTIMISATION OF WEAR ...

blended polymer composites could be optimized using the grey relational analysis (GRA) in the presence of limited data for the composite development process The GRA is illustrated as a configuration to achieve comprehension of the wear optimization procedure for the chosen composites The offered procedure initiates a new research direction