Evaluation of effective parameters on strength of metal specimen adhesion with polymers

Original Research, A1

Zimov F, Polat A, Saha B.


ABSTRACT: 

Key Words: Polymer
Evaluation of mechanical, thermal and electrical properties of graphite base nanocomposites

Original Research, A2

Solomon T, Joeva R, Rodzina S.


Abstract:

Key words: Graphite, Nanocomposites, Mechanical, Thermal
Investigation of Exfoliation and Intercalation in Clay Nanocomposites

Original Research, A3

Ali D.

A BTRACT:

Key words: Exfoliation & Intercalation,

A Ringed Contact Friction and Boundary Lubrication Test instrument design

Original Research, A4

Rahman A. and Memedov B.

A BSTRACT:
Performance Improvement Priorities: Integrative Model of Organizational Excellence Model and Balanced Scorecard Approach

Original Research, A5

Hoseini Nasab H., Bagheri F., Esfahani M. J.

Abstract:

Due to increase in the strategic and quality management programs in organizations, the need for a comprehensive approach to improvement becomes more urgent. This study aimed to present an integrative model of the Excellence Model and Balanced Scorecard Approach. First, the EFQM Model was used to assess the performance of the organization. Then, the Balanced Scorecard approach was adapted to set strategic and operational goals applicable to the organization. Finally, the QFD methodology and TOPSIS method were employed to establish the priorities for improvement. The main findings of the research were: (1) the relative importance of quality criteria and the Balanced Scorecard approach, (2) the existence of a relationship between the two approaches, and (3) the identification of the priorities for improvement.

Keywords: Priorities for Improvement, EFQM Model, Balanced Scorecard, QFD, TOPSIS Method
A New Method for Solving the Generalized Interval-Valued Fuzzy Numbers Linear Programming Problems

Mahmoodirad A., Hassasi H., Molla-Alizadeh-Zavardehi S., Esfahani M. J.

Abstract:
In this paper, we concentrate on linear programming problems in which the cost vector, the technological coefficients and the right-hand side of the constraints are represented by generalized interval-valued trapezoidal fuzzy numbers. We propose a new method for solving such problems. Then, we discuss the ranking of the generalized interval-valued trapezoidal fuzzy numbers and, consequently, we are able to solve the problem. Finally, we give an illustrative example and its numerical solutions.

Keywords: Linear Programming Problem, Generalized Interval-Valued Fuzzy Numbers

Ranking Tehran Healthcare Centers based on Service Quality using Fuzzy Data Envelopment Analysis

Tabatabaei Mehrizi S.M.

Abstract:
The customer is one of the most effective environmental factors in health services organizations. Experts of management and healthcare centers are in the need of knowing which centers are better and they can study their own centers to improve their services. DEA (Data Envelopment Analysis) is a well-known technique to assess the efficiency of DMUs (Decision Making Units). In this paper, to overcome the limitation of using crisp data, we use fuzzy DEA and fuzzy data envelopment analysis (FDEA) in order to rank the Tehran-based clinics. The data were collected from the private and public clinics in Tehran and 15 of the Tehran-based clinics were selected. These clinics were then ranked regarding the quality of their services using DEA.
Keywords: Healthcare services institutes, Quality of services

The Measuring Efficiency in Data Envelopment Analysis with Genetic Algorithm

Original Research, A8

Taghaodi R., Esfahani M.J., Molla-Alizadeh-Zavardehi S., Mahmoodi Rad A.

A BSTRACT:

Keywords: Data Envelopment analysis, Genetic Algorithm