

Open Loop Supply Chain Model for the Automotive Industry Using Hybrid K-Means GA with SA

P. Suresh

**Department of Mechanical Engineering
Muthayammal Engineering College
Rasipuram, Namakkal District, Tamilnadu, India**

R. Kesavan

**Department of Production Technology
Madras Institute of Technology
Anna University
Chennai, Tamilnadu, India**

Abstract

Supply Chain Management (SCM) is now at the centre stage of manufacturing and service organizations. According to the strategies in markets, supply chains and logistics are naturally being modeled as distributed systems. Supply Chain is the network of suppliers, manufacturing, assembly, distribution and logistics facilities that perform the function of procurement of materials, transformation of these materials into intermediate and finished products and distribution of these finished products to the customers. The task of managing entire supply chain constitutes the core of the Supply Chain Management. The economic importance has motivated both private companies and academic researchers to pursue the use of operations research and management service tools to improve the efficiency of Transportation. Refereeing to such scenario, integration of Genetic Algorithm (GA) with Simulated Annealing (SA) approaches adopted to optimize Open Loop supply chain distribution Automotive Industry Unit are reviewed.

Keywords

Open Loop model, Simulated Annealing, Genetic Algorithm, SCM.