

FUZZY CRITICAL PATH PROBLEM USING THE GRADED MEAN INTEGRATION REPRESENTATION

V. RANGANATHAN¹ AND P. THIRUNAVUKARASU²

^{1,2} P.G. and Research Department of Mathematics,
Periyar E.V.R. College(Autonomous),
Tiruchirappalli-620 023, TamilNadu, India

Abstract

In this paper a new method based on fuzzy theory is developed to solve the project scheduling problem under fuzzy environment. Assuming that the duration of activities are trapezoidal and triangular fuzzy numbers, in this method we compute Total float time, Free float time and Independent float time of each activity and fuzzy critical path with a numerical example. The proposed method is simple, fast and effective to find three float time of each activity and fuzzy critical path in a fuzzy project network.

Key Words : *Fuzzy sets, Triangular fuzzy numbers, Total float, Critical path.*

AMS 1991 Subject Classification : 03E72.

© <http://www.ascent-journals.com>