

Optimal Allocation in Agriculture Using Intuitionistic Fuzzy Assignment Problem

¹Mushtaq. A. Lone, ²S.A. Mir, ³Rafiq Lone & ⁴Özen ÖZER

¹SKUAST-K; mushtaqstat11@gmail.com

²SKUAST-K; mir_98@msn.com

³Islamia collage of science and commerce, Srinager, J &K, India; rajurafiq19@gmail.com

⁴Kırklareli Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bölümü, Cumhuriyet Mah;
oozenozer@gmail.com

ABSTRACT

Assignment problem is a well-known and most suited for solving real world problems. This paper dealt with intuitionistic fuzzy assignment problem whose cost has been considered as an intuitionistic triangular fuzzy numbers. By defuzzifying with the new proposed accuracy function, the assignment costs are converted into crisp values and the optimum solution is obtained by using Branch and Bound method.

Keywords: assignment problem, intuitionistic triangular fuzzy numbers, branch and bound method, optimal allocation