

## Abstract

In the real world case, product mix problem oftentimes become constraint which make decision tough enough to be decided by decision maker. Method that usually to take decision oftentimes base at intuition so that inexistence a solution cannot be responsibly scientifically. This final project, will be using membership curve of S-Modified to determine degree of membership from coefficient value and also right side value. This final project study two elementary problems at linear programming of fuzzy environment, then will be conducted by comparison of solution to solving problem by using fuzzy method with Zimmerman method. The case study are planning of product mix problem composition and their solution by numerical from their plan.

**Keywords:** *Linear programming, uncertainty, S-modified function, Zimmerman method.*