Abstract

This paper presents the concept of generalized intuitionistic fuzzy set (GIFS) and optimization technique under generalized intuitionistic fuzzy environment. The idea of GIFS was introduced by Tapas K. Modal et al. Here, another new GIFS has been introduced. Solution technique of optimization problem involving both types of GIFS has been discussed. For the sake of simplicity alone, the same problem, as studied by Angelov, who first well developed the intuitionistic fuzzy optimization technique in 1997, is taken. Conclusions are obtained finally.

References

- Bellman, R. E. Zadeh, L. A. 1970 Decision making in a fuzzy environment,
Optimization under Generalized Intuitionistic Fuzzy Environment

Management Science, Vol. 17, B141–B164.

Index Terms

Computer Science  Fuzzy Systems

Keywords

Type I generalized intuitionistic fuzzy set  type II generalized intuitionistic fuzzy set intuitionistic fuzzy optimization

generalized intuitionistic fuzzy optimization.