Abstract

This paper presents an implementation of the Imperialist Competitive Algorithm (ICA) for solving the fuzzy random portfolio selection problem where the asset returns are represented by fuzzy random variables. Portfolio Optimization is an important research field in modern finance. By using the necessity-based model, fuzzy random variables reformulate to the linear programming and ICA will be designed to find the optimum solution. To show the efficiency of the proposed method, a numerical example illustrates the whole idea on implementation of ICA for fuzzy random portfolio selection problem.

References

The Application of Imperialist Competitive Algorithm for Fuzzy Random Portfolio Selection Problem


Index Terms

Computer Science Algorithms

Keywords

imperialist competitive algorithm portfolio selection problem necessity-based
model fuzzy random variables