MULTIPLE OBJECTIVE OPTIMIZATION METHOD AND DEVICE

ABSTRACT

The invention relates to an optimization system (1) which comprises means (4) for entering data, means (2) for defining a criterion for each one of the objectives considered using the data entered, an element (6) for optimizing each one of the criteria individually in order to obtain an optimal person for each one of said criteria, an optimal person including at least one optimal value feasible for the criterion, an element (8) for determining, by means of an evolutionary game algorithm, the survival coefficients of said optimal persons, and an element (10) for determining an optimal solution by mutating the optimal persons, by means of the survival coefficients and of the application of a mutation operator, the optimal solution including at least one final optimal value enabling the achievement of all the objectives considered to be optimized.

[Figure 1]