

ABSTRACT

The present application relates to the technical field of machine learning, and more specifically to a method and a system for training a matrix generator, a method and a system for constructing a comparison matrix, an analytic hierarchy process method and system, and a computer-readable storage medium for implementing the aforementioned methods. According to an aspect of the present application, a method for constructing a comparison matrix is provided. The method comprises the following steps: acquiring a set of factor features; and inputting the set of the factor features into a matrix generator to obtain a comparison matrix, wherein the matrix generator is trained using the method for training a matrix generator provided according to another aspect of the present application. A trained matrix generator is employed to automatically construct a comparison matrix based on a set of factor features, thereby reducing labor costs during the process of constructing the comparison matrix, improving the efficiency and accuracy of problem processing using an analytic hierarchy process, and widening the application field of analytic hierarchy process.

(Figure 4 is an accompanying figure for the abstract)