

	Team Control	
	Number	For office use only
For office use only	26911	F1 _____
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T4 _____		

Who is the Centennial Best Coach?

In this paper, we present a three-stage comprehensive evaluation model. Firstly, in the light of the common sense and logical analysis, we deduce a detailed Assessment Metrics set (Winning Percentage, Stability, Championship Number, Personal Awards, Clicking Rate, Players' Honors, Draftees by the professional league) and convert some abstract concepts to quantized and concrete values by utilizing unique methods including *Google Trends* to aid in our analysis. Then to simplify the following work, we filter the coach candidates according to the shared characteristics of excellent coaches and modify the index value with various methods. What's more, as to the timeline deviation, two modification models are proposed for our google trends statistics, a linear-fitting model and a weighted-sum model included.

Secondly, a model combining *Analytical Hierarchy Process (AHP)* and a novel method called *Max Entropy Model (Maxent)* based on *Grey Relation Analysis (GRA)* is applied in order to calculate both the subjective and objective weights. In our model, AHP diminishes the possible deviation of subjective weights, and Maxent based on GRA renders an insight into the intrinsic statistics and objective weights concerned are in turn provided.

In the final stage, we combine both weights mentioned above together to obtain the final comprehensive weights and in turn render the final ranking. According to relevant documents, our ranking results are fairly credible.

Besides, we apply sensitive analysis to our model and test our model in women's volleyball. The outcome of the model proves the robustness and universality in our model.

Key words:

Timeline deviation compensation AHP Maxent GRA