Abstract

Title: Evaluating of efficiency of Football Clubs in Premier League by Data Envelopment Analysis.

Goals: The aim of the thesis is to identify the effectiveness of football clubs in the Premier League in the season 2016/2017. In the post optimization analysis evaluate, which observed clubs have been effective in transforming inputs into outputs, and which clubs have some deficiencies in this transformation.

Methods: In the thesis for efficiency research, the Data Envelopment Analysis (DEA) data analysis method is used to evaluate the effectiveness of individual clubs in the Premier League. DEA determines which units are effective and what are the deviations from the effective frontier for the units that are inefficient. The measurements are made by an input-oriented CCR model and a BCC model. The CCR model assumes constant returns to scale and BCC considers variable returns to scale.

Results: The result section identifies the productive efficiency of individual football clubs in the Premier League in the season 2016/2017. The effective frontier reached a total of 7 clubs in both CCR and BCC models. The average efficiency in the CCR model is 87 %. In the BCC model, the average efficiency is 91 %. As a result, the Premier League as a competition is highly efficient.

Key words: data envelopment analysis, Premier League, CCR, BCC, efficiency