

عنوان مقاله:

An integrated Data Envelopment Analysis and Data Mining for Performance assessment of Insurance branches

محل انتشار:

اولین کنفرانس ملی ریاضیات صنعتی (سال: 1393)

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خلاصه مقاله:

This paper presents a Data Envelopment Analysis (DEA) model combined with Bootstrapping to assess performance of one of the Data mining Algorithms. We used a two-step process for performance productivity analysis of Insurance Branches in Iran. First, using a Data Envelopment Analysis (DEA) model, the study analyses the productivity of eighteen Decision-making units (DMUs). Using a Malmquist Index, DEA determines the productivity scores but cannot give details of factors depend on Regress and Progress Productivity. DEA model uses a new Latent Variable radial input-oriented technology and simultaneously reduces inputs and undesirable outputs in a single multiple objective linear program. On the other hand, the classification and regression tree (C&R) efficiency model was then utilized to extract rules for exploring and discovering meaningful and hidden information from the vast databases. The conclusion of the combined model is a set of rules that can be used by policy makers to explore reasons behind the progress and regress productivities of DMUs.

کلمات کلیدی:

Bootstrapping, Classification and Regression, Data envelopment Analysis, Malmquist Index, productivity

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