

## The Measurement of the Multi-Period Efficiency of the Turkish Health Care Sector

**Authors :** Erhan Berk

**Abstract :** The purpose of this study is to examine the efficiency and productivity of the health care sector in Turkey based on four years of health care cross-sectional data. Efficiency measures are calculated by a nonparametric approach known as Data Envelopment Analysis (DEA). Productivity is measured by the Malmquist index. The research shows how DEA-based Malmquist productivity index can be operated to appraise the technology and productivity changes resulted in the Turkish hospitals which are located all across the country.

**Keywords :** data envelopment analysis, efficiency, health care, Malmquist Index

**Conference Title :** ICDM 2015 : International Conference on Data Mining

**Conference Location :** Venice, Italy

**Conference Dates :** November 09-10, 2015