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A Data Envelopment Analysis Application for Comparing Efficiency of G7 Countries and Turkey

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ABSTRACT

This study compares some economic aspects and internet usage of G7 countries and Turkey by using Data Envelopment Analysis models based on OECD and wearesocial.com data. Countries are ranked according to the efficient use of inputs effecting gross national income per capita such as population, employment rates, average hours actually worked yearly, international trade and primary energy supply. Output is considered to be gross national product per capita. Same countries are ranked separately according to their internet usage. It is aimed to compare both rankings to investigate whether economic efficiency ranking is similar to the internet usage ranking. Findings show that countries ranked highly in internet usage are also ranked highly in economic efficiency.

KEYWORDS G7 Countries and Turkey; Comparison of economic efficiency; Data Envelopment Analysis (DEA) models

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