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Patent Search

Invention Title	SYSTEM AND METHOD FOR MEASURING THE TECHNICAL EFFICIENCY OF ONE OR MORE INDUSTRIES
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Abstract:

Disclosed is a system (100) for measuring the technical efficiency of one or more industries that includes a memory (108) and a processor (110). The memory (108) stores a plurality of instructions; and the processor (110) executes the plurality of instructions. The processor (110) is configured to perform a plurality of operations comprising ste accessing performance of one or more Decision Making Units (DMUs) in Data Envelopment Analysis (DEA) using a concept of efficiency; estimating efficiencies using the D is relative to the best performing DMU; computing a relative efficiency to one or more groups observed the best practice which develops efficiency scores for all the DMUs scale from zero to hundred percent; and allowing input reducing and output increasing one or more orientations and assuming one or more constant returns to the scale a Charnes, Cooper, and Rhodes (CCR) model. The most illustrative drawing: FIG. 1

Complete Specification

Claims:WE CLAIM:
1.   A method for measuring the technical efficiency of one or more industries, the method comprising:
accessing, by one or more processors (110), performance of one or more Decision Making Units (DMUs) in Data Envelopment Analysis (DEA) using a concept of efficiency
estimating, by the one or more processors (110), efficiencies using the DEA that is relative to the best performing DMU;
computing, by the one or more processors (110), a relative efficiency to one or more groups observed the best practice which develops efficiency scores for all the DMUs
a scale from zero to hundred percent; and
allowing, by the one or more processors (110), input reducing and output increasing one or more orientations and assuming one or more constant returns to the scale
through a Charnes, Cooper, and Rhodes (CCR) model.
2.   The method as claimed in claim 1, wherein the concept efficiency is a ratio of total outputs to total inputs.
3.   The method as claimed in claim 1, wherein the best performing DMU is assigned an efficiency score of unity or 100 percent, and the performance of other DMUs var
between 0 and 100 percent relative to the best performance.
4.   A system for measuring the technical efficiency of one or more industries, comprising:
a memory (108) to store a plurality of instructions; and
a processor (110) to execute the plurality of instructions, wherein the processor (110) is configured to perform a plurality of operations comprising steps of:
accessing performance of one or more Decision Making Units (DMUs) in Data Envelopment Analysis (DEA) using a concept of efficiency:

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