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description dea is used to empirically measure productive efficiency of decision making units dmus although dea has a strong link to production theory in economics the method is also used for benchmarking in operations management whereby a set of measures is selected to benchmark the performance of manufacturing and service operations 8

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appendix basic dea model illustration the dea model assuming no knowledge of linear programming is explained and applied to a simple dataset in the appendix to this chapter this fundamental description of dea illustrates the way it might be used to identify best practice dmus inefficient dmus and the potential benefits if inefficient

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to calculate the value of technical efficiency this study uses data envelopment analysis dea with a bootstrapping approach with 2000 times the number of iterations

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data envelopment analysis dea models are tools for efficiency and performance evaluation of a set of decision making units dmus they are formulated as linear programming problems that have to be solved for each dmu of the given set

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chapter 1 data envelopment analysis history models and interpretations william w cooper lawrence m seiford and joe zhu 1 r ed mccombs school of business university of texas at austin

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this guide introduces data envelopment analysis dea a performance measurement technique in such a way as to be appropriate to decision makers with little or no background in economics and operational research the use of mathematics is kept to a minimum

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data envelopment analysis dea developed originally as a set of techniques for measuring the relative efficiency of a set of decisionmaking units dmus when the price data for inputs and outputs are either unavailable or unknown these techniques are nonparametric

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models in free version if you are interested in using the deafrontier for education and research purposes you can download a free trail version of deafrontier which includes the following dea models envelopment models crs vrs input oriented crs stands for constant returns to scale

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basic dea models envelopment forms ccr model charnes cooper and rhodes 1978 first proposed dea as an evaluation tool to measure and compare the relative efficiency of dmus their model i yields an objective evaluation of overall efficiency and ii assumes constant returns to scale crs

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we analyse 59 papers divided them into ten classes that cover various perspectives of two stage dea studies such as the economic context geographic region of the banking units methodological characteristics and type of the models either internal or external

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basic dea models additive models additive model deals with the input excesses and output shortfalls directly and can discriminate efficient and inefficient dmus there are several types of additive models the additive model with variable returns to scale assumption is expressed as

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data envelopment analysis dea is a body of concepts and methodologies that have now been incorporated in a collection of models with accompanying interpretive possibilities as follows 1 the ccr ratio model 1978 i yields an objective evaluation of overall efficiency and ii

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summary this chapter briefly introduces radial dea models namely the charnes cooper rhodes ccr model and the banker charnes cooper bcc model references

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data envelopment analysis dea model in operation management meilisa malik 1 syahril efendi 2 muhammad zarlis 3 department of mathematics universitas sumatera utara medan indonesia e mail 1 malikmeilisa gmail com 2 syahnyata 1 gmail com 3 m zarlis usu ac id abstract

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in this paper the r d green innovation of the chinese high tech industry can be regarded as a system of three consequent stages firstly considering the existence of multiple effective decision making units at the same time a three stage super efficiency dea model is proposed

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