



موسسه عالی آموزش و پژوهش مدیریت و برنامه ریزی

How to Utilize DEA for Modelling Centralised Resources Allocation?

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زمان: ۱۸/۰۵/۹۶ ساعت ۱۴ الی ۱۵:۳۰

Abstract: Data envelopment analysis (DEA) is a non-parametric approach for gauging the efficiency of a set of decision making units (DMUs). DEA estimates an empirical best-practice frontier using some assumptions to analyze ex post evaluation of actual performance. The normative use of DEA such as allocation of resources and target setting can be studied based on different principles, alternating from the joint profit maximization, combinations of individual scores or game-theoretical settings. This paper develops a resource allocation framework based on a common dual weights approach with particular use in centralized decision-making systems. Contrary to existing approaches, our model ascertains a consistent and unbiased internal allocation. Two numerical examples are presented to illustrate the applicability of the proposed method.

Short Bio: Dr. Adel Hatami-Marbini joined the Department of Strategic Management and Marketing of De Montfort University (DMU) in ۲۰۱۷ as a Senior Lecturer in Business and Management. Prior to joining the DMU, Adel worked as a postdoctoral research fellow at the Université catholique de Louvain (UCL) along with being an adjunct professor at the University of Namur and UCL. His fellowship was funded by the Belgian National Fund for Scientific Research (French: F.R.S.–FNRS). He also visited Aston Business School, Technical University of Ostrava, University of Seville and Virginia Tech. His research interests chiefly include Quantitative modeling in Operations Management, Decision Support Systems (DEA, MCDM,...) and Performance Evaluation of Supply Chain Management. He has published around ۵۰ research papers in a variety of scholarly academic journals including European Journal of Operational Research (ABS List ۴), Omega (ABS List ۳), Expert Systems with Applications (ABS List ۳) and Journal of the Operational Research Society (ABS List ۳), among others and has regularly presented his work at various national and international conferences.