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INTEGRATIONS AND APPLICATIONS OF ANALYTIC HIERARCHY PROCESS WITH DATA ENVELOPMENT ANALYSIS – A LITERATURE REVIEW

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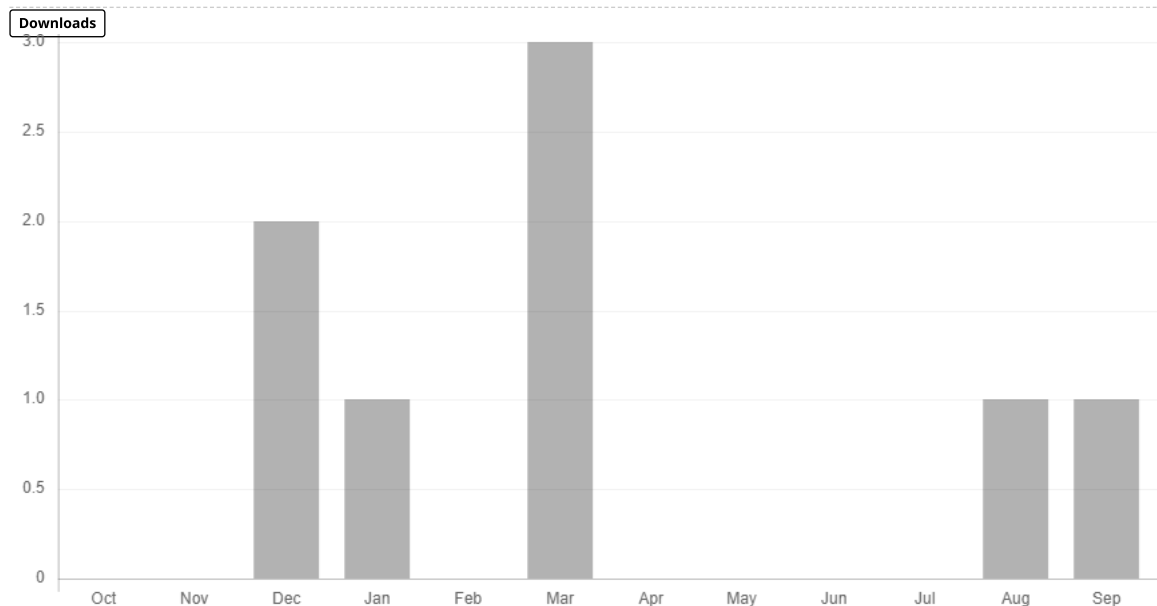
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Abstract

The scope of AHP (the analytic hierarchy process) and DEA (data envelopment analysis) is widened when there is an integration of AHP and DEA to DEAHP as the application areas because of its boundless flexibility and varied applicability. Furthermore, the scope, flexibility and applicability are increased manifold when DEAHP with other approaches and methods. This paper reviews the literature of the journal articles which have found its integration with DEAHP. On the basis of a defined set of related articles appearing in the international journals from 2000 to 2018 are collected and analysed so that the following five questions can be answered: (1) Which integrated-DEAHP was mostly prevalent and got the utmost attention? (2) Which of the areas of application were often studied mostly and have found their application? (3) Which of the specific problems were most frequently applied to integrated DEAHP approaches? (4) What are the publications the researchers are considering the integrated DEAHP approaches? and (5) Which of the journals of international standards published how many numbers of journal articles which have the highest number of papers on the approach of integrated DEAHP? This literature review gives evidence that the integrated DEAHPs have better hold inadequacy the stand-alone DEAHPs. This article allows the researcher to think upon new application areas and specific problem areas where integrated DEAHP applied to effectively and efficiently. The novelty of this paper lies in the fact that it is the one of a kind paper of literature review which takes on the approach of integrated along with stand-alone DEAHP.

Keywords: Integrated Data Envelopment Analysis-Analytic Hierarchy Process; AHP; DEA; DEAHP; Literature Review



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References