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MEASURING THE LEVEL OF ACHIEVEMENT OF
MULTIDIMENSIONAL OBJECTIVES. AN EMPIRICAL
COMPARISON OF METHODS FOR COMBINING MEASURES
AND INTERPRETING RESULTS.

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Measuring the level of achievement of multidimensional objectives. An empirical comparison of methods for combining measures and interpreting results.

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Abstract

Although it is common to deal with multidimensional objectives, namely objectives that are measured by two or more indicators, little attention is devoted to identify and select the methods to apply for interpreting the results that will be achieved, or, rather, to verify whether the rules that are going to be adopted are the most appropriate. The aim of this paper is to offer insight into methods and rules to aggregate measures and interpret results, investigate the unintended consequences of applying inappropriate criteria, propose a methodology to compare different methods and test their robustness before they are applied.

Keywords

Multidimensional objective, Data interpretation, Composite indicators, Overall performance measurement.