

Stakeholder's Preferences Modeling in Managing Economic Sustainability

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Abstract

Managing economic sustainability of a nation requires the aggregation of several indicators and dimensions related to the environment, social factors, culture, economic growth, competitiveness and technology. These dimensions are incommensurable and conflicting. Their aggregation requires some tradeoffs from the stakeholders. Moreover, the decision-making process in such context involves different stakeholders with different priorities and preferences. The aim of this paper is to develop a multi-criteria decision aid model where stakeholders' preferences will be explicitly integrated within a group decision-making process based on consensus and compromises. This model is based on the concept of distance function where the deviations between the achievement and aspirations levels of each criterion are minimized. A framework for a decision support system will be presented to facilitate the group decision making process and the elucidation of the stakeholders' preferences.

Bio

Professor Belaid Aouni is the Associate Dean for Research and Graduate Studies at the College of Business and Economics (Qatar University). He received a B.Sc. in Production and Operations Management from Tlemcen University (Algeria), an M.B.A. and a Ph.D. in Management Science from Laval University (Quebec, Canada). Professor Aouni has been in academia for the last 27 years. His teaching and research interests are related to the areas of multiple objective programming and goal programming, multiple criteria decision aid, mathematical programming, production planning and control, and supply chain and logistics management. He served as President of the Canadian Operational Research Society. Prior to joining Qatar University, Dr. Aouni was a Professor of Quantitative Methods and Operations Management at Laurentian University, Canada. Dr. Aouni has an extensive professional experience with Quebec Government, Canada.