

Navigating Agricultural Decision-Making: A Comprehensive Review of MCDM Applications in Farming Complexity (2013-2023)

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ABSTRACT

The intricate landscape of farming decision-making is commonly perceived as a multifaceted challenge, encompassing farming, technological, social, ethical, economic, and environmental dimensions, accompanied by diverse and conflicting objectives involving various stakeholders. To address this complexity, numerous multi-criteria decision-making (MCDM) techniques have proven effective, offering transparent, consistent, accurate, and timely solutions. This study undertakes a comprehensive review of research articles spanning the period from 2013 to 2023, accessible in the Scopus database, focusing on the applications of MCDM in farming decision-making. A critical analysis is conducted, examining various aspects such as year-wise trends, journal-wise distribution, institutional contributions, and country-wise publications. Additionally, the study explores authors' nationalities, the array of MCDM techniques employed, other mathematical tools utilized for criteria weight measurement and uncertainty modeling, and the associations with related keywords.

Keywords: Decision making, multi criteria, farming

How to Cite

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