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عنوان مقاله:

Innovative Conceptual Model of Computational Intelligent Decision Making System Using Neuro-Fuzzy Systems

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خلاصه مقاله:

From 1957, the concept of DEA has developed with two famous models of BCC and CCR and other related models. From another side, the family of electre developed with its branches to address needs of decision making. According to recent progresses of artificial neural network and fuzzy logic and thanks to the application of ANFIS module in MATLAB software, it is obvious that intelligent decision making needs to be revoluted by these new scientific tools. The main advantages of this innovative model is to minimize the calculation time in huge models or problems and the accuracy of simulations and the more precise system of estimating optimized solutions reducing faults of previous models. In this paper,it has surveyed how to theoretically use a neuro-fuzzy concept in order to reinforce the decision making science through intelligence systems and optimize performance due to improved efficiency and evaluation systems. This model can be extended in a wide range of Decision Making cases in many fields of industrial production, sustainable energies, commercial or economic models

کلمات کلیدی:

DEA, Neuro-Fuzzy, ANFIS, ELECTRE, Decision Making

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