A New Fuzzy Tool Multi-Impacts Resolving Fuzzy Cognitive Maps (MIRFCM) to Analyze the Factors Causing Work Life Imbalance

Abstract

There are many fuzzy models available to study social problems. The incorporation of fuzzy models to study the social problems is because of the linguistic nature of the problems. In this study, an attempt is made to study the social problem is that factors causing work life imbalance with a new fuzzy tool which will detail the measure of influence of each factor on the other one. The new fuzzy tool, Multi-Impacts Resolving Fuzzy Cognitive Maps (MIRFCM) is designed to highlight the relationship between the attributes in the system with measures given by the experts and to find out the impact value of each attribute on the other attribute more accurately than any other existing fuzzy models. Some new definitions called impact, Impact Assignment Function and Multi-Impact Resolution functions are developed in order to design the new fuzzy model Multi-Impacts Resolving Fuzzy Cognitive Maps.

References

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**Index Terms**

Computer Science  
Fuzzy Systems

**Keywords**

Fuzzy  
Fuzzy cognitive mapping  
Impact  
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Work life balance.