

A COMPARATIVE APPROACH USED FOR SOLVING FUZZY MADM PROBLEM

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Abstract

In this paper, Multiple Attribute Decision Making (MADM) methods comparative approach is studied. We proposed two approaches: _rst proposed approach is grey relational theory and second is improved Analytical Hierarchy Process (AHP). The method of grey related analysis as a means to reect uncertainty in multiple attribute models through interval numbers is presented. In is improved AHP method trapezoidal membership function is used to reduce vagueness. After simpli_cation the _nal results become ranking fuzzy number problems. Finally, these two methods were compared by taking a numerical example.

Key Words: MADM, AHP, Grey theory, Fuzzy membership functions.