

/INFERENCE SYSTEM FOR SELECTION OF AN APPROPRIATE
MULTIPLE ATTRIBUTE DECISION MAKING METHOD/

by

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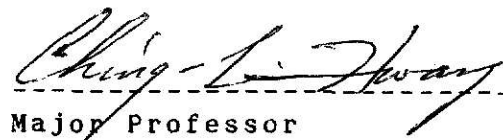
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1 INTRODUCTION

This report deals with the problem of choosing the best MADM (Multiple Attribute Decision Making) method from a number of solution techniques available to solve a MADM problem. A MADM problem is a decision making problem in which a decision maker selects the best alternative among a finite number of alternatives based on some attributes. Thus, the selection of the best MADM method itself is a MADM problem.

MADM problems are every day occurrences (1). In personal or domestic decision making situations, examples are choosing a car, house, school, or job. In business decision making situations, examples are selecting a piece of equipment, manager, marketing strategy, plant site, etc. In public policy making situations, examples are choosing a means of transportation, energy storage system, or an area for R & D.

Although the study of multiple criteria has a long tradition, substantial advancement in MADM has been made only in the last two decades. As a result, a number of MADM methods have been developed (See Fig. 1 for a taxonomy of MADM methods). However, little research has been done on the problem of selection of an appropriate MADM method, given a specific MADM problem.

1.1 Literature Survey

Only two articles were found during the literature survey concerning the MADM method selection problem.

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WITH DIAGRAMS
THAT ARE CROOKED
COMPARED TO THE
REST OF THE
INFORMATION ON
THE PAGE.**

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