

# A STUDY ON USING AHP AS A GROUP DECISION MAKING MODEL IN GROUP DECISION MAKING SYSTEM

HYUN-A CHOI\*, EUI-HO SUH\*, CHAE-YEON LIM\*\*

\* MIS LAB. POSTECH

\*\* GSIT, POSTECH

## ABSTRACT

Group Decision Making System(GDSS) has contributed to solving group problems by supporting better communication among group members. GDSS, however, lacks in common group decision making model and suffers from being unable to support non-specific group. GDSS is known to only support specific group problems for which GDSS tools or facilities are available.

Analytic Hierarchy Process(AHP) has been widely used as a decision-making method for problems of all kinds of group members including non-specific ones. Its effectiveness has been proven in the areas of reduction of conflicts, improvement of decision quality, better problem analysis, improved forecasting, and so on, although its reliability is sometimes unstable.

In this paper the functional relationship between the complexity of hierarchy and its consistency is analyzed. It is also studied, through an experimental approach, how to apply AHP to a problem while guaranteeing the reliability and the economical efficiency. Finally its possibility as a group decision making tool in computerized GDSS is explored.