

Using AHP in Real Life Troubleshooting and Issues

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ABSTRACT

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AHP is a powerful method for decision making as many examples over the years show, for different type of problems, for different areas; used by consultants, university professors, business men and women.

But as all methodologies, might not be the best approach AHP in every single decision making problem. Explicit axioms ask to validate if the real life problem fits these conditions before an application should be started.

Other side is how AHP is used. As many methodologies, it contains alternative approaches for given steps, and it is important during the problem solving planning step, to set this up. It might yield to unexpected results, that, with inappropriate knowledge of AHP, could be read simply as wrong AHP results.

This can be seen in several papers published with AHP "wrong results".

This presentation is oriented to identify some of these key elements, make open questions and show alternate results. Questions related basic axioms are key ; is the first axiom a must? Is the reciprocal an unrealistic or hard condition? What about feedback handling? How can it be detected? What about comparing elements of too different size? Can axioms 2,3,4 be avoided?

Examples are built from real life experience as well as extracted from published papers.