Incomplete Ordinal Information in Value Tree Analysis

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Abstract:

Preference elicitation methods for value trees are extended by incomplete ordinal information about alternatives and attributes. Statements are solicited through alternative/attribute sets and sets of associated rankings, and they correspond to linear inequalities. Difficulties arising from non-convex feasible regions are addressed through MILP formulation, hence allowing any linear inequality statements.

Keywords:

Incomplete preference information, ordinal information, value tree analysis, mixed integer linear programming.

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