IDENTIFYING OUTLIER OPINIONS IN AN ONLINE INTELLIGENT ARGUMENTATION SYSTEM FOR COLLABORATIVE DECISION SUPPORT
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ABSTRACT
The intelligent argumentation system allows stakeholders to post their decision issues, alternatives and exchange their arguments over the alternatives posted in an argumentation tree. In an argumentation process stakeholders have their own opinions and very often these opinions might be contrasting and conflicting with others in the decision making group. Some stakeholders have opinions which might be outlier with respect to the mean opinion of the group. In this article, we present a unique approach to identify stakeholders with outlier opinions in the argumentation process. Our approach identifies outlier opinions both based on a stakeholders’ opinion as well as the collective opinion on a stakeholder’s opinion. The decision maker and other participating stakeholders have the opportunity to explore the outlier opinions existing in their group both from an individual’s perspective as well as from the group’s perspective. In a large argumentation tree, it is often difficult to identify stakeholders with outlier opinions manually. We also presented an experiment to evaluate our proposed method.

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