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Dependent Judgment Analysis: A Markov Chain based Approach for Aggregating Crowdsourced Opinions

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**Highlights**

- We introduce a novel crowd judgment analysis problem where the crowd opinions are dependent on each other.
- We introduce a novel method to compute the final aggregated judgments from multiple dependent opinions.
- In this method, the expertise of an annotator is quantified in terms of confidence gap and weights are alloted based on that.
- We provide a comprehensive evaluation of the proposed method by applying the method on two datasets to evaluate the effectiveness of the method.

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