Let's Agree to Disagree: A Meta-Analysis of Disagreement Among Crowdworkers During Visual Question Answering

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Visual Question Answering (VQA)

User Interface: Radio Button

Question: What color is the man's jacket?

Answer Choices:
1. beige
2. tan
3. brown
4. no
5. yes
6. man
7. man
8. man
9. man
10. man

Subjectivity is the major reason of disagreement for VQA Real and Abstract Images.

Reasons of disagreement [1]
- Task Difficulty
- Ambiguity
- Granularity
- Subjectivity
- Insufficient Visual Evidence
- Synonym

User Interface: Checkbox

Question: What does this can say?

Answer Choices:
1. unanswerable
2. Unanswerable
3. Bag of Hall's Cough Drops
4. unanswerable
5. Unanswerable
6. unanswerable
7. Halls
8. unsuitable image
9. STORE ROOM
10. unsuitable image

Results: Radio Button Interface

<table>
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<tr>
<th>Datasets</th>
<th>Subjectivity</th>
<th>Ambiguity</th>
<th>Granularity</th>
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<tbody>
<tr>
<td>VQA Real Images</td>
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<td>VizBiz Images</td>
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Results: Checkbox Interface

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Checkbox interface produces similar results as that of the radio button interface.

Reasons of disagreement [1]
- Task Difficulty
- Ambiguity
- Subjectivity
- Synonym

References