Assessing emotion and sensitivity of AI artwork (#58697)

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1) Have any data been collected for this study already?
No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?
After listening to the audio of a musical artwork, in which an AI plays the piano, participants will judge whether their emotion has been moved and whether the artistic piece has been performed with sensitivity. We expect that emotionality and sensitivity will receive lower ratings when participants know that the artist is an AI than when they are told that the artist is a human.

3) Describe the key dependent variable(s) specifying how they will be measured.
Participants will rate how much the music artwork has moved their emotion on a 11-point scale (0 = Not at all, 10 = Very much). Also they will rate the artist’s sensitivity on a 11-point scale (0 = Low, 10 = High).

4) How many and which conditions will participants be assigned to?
2 between-participants groups. Participants will be randomly assigned to group AI or group Human. Group AI will be told that the artist is an AI, group Human will be told that the artist is a human.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
We will run 2 T-Tests with emotion and sensitivity as the dependent variables, and group (IA vs Human) as the independent variable. We expect that the ratings of emotion and sensitivity will be significantly higher in the Human Group.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.
We will exclude the data of participants who complete the survey in more than 45 minutes. The duration of the study is estimated at 10 minutes.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.
We will recruit 250 participants in the Prolific Academic online platform. We will use Prolific’s internal screening service to recruit this specific sample: participants who are more than 18 years of age.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)
We collect some other secondary variables for exploratory purposes such as ratings about the quality of the artwork, discomfort with the AI artists or conformity with the creative capacity of AI. In addition, we change the framing of the groups at the end of the experiment. Thus, we tell the AI group that the musical artwork was actually by a human artist, while we tell the human group that it was by an AI. We measure whether their informed emotion and sensitivity change with this new information.