

Review of: "Visualizing the Mind: A Deep Dive into Computer Vision and Psychological Phenomena"

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Potential competing interests: No potential competing interests to declare.

Positives:

- Interesting application area at the intersection of computer vision and psychology
- Case studies demonstrate potential for using CV to detect psychological conditions
- Briefly mentions some relevant CV methods like facial recognition and expression analysis

Limitations and areas for improvement:

- No technical details provided on the computer vision and machine learning methods
- What algorithms were used? CNN architectures? Training procedures?
- No quantitative performance measures stated for the systems
- Accuracy, precision, recall, F1 scores? On what datasets?
- Emotion recognition is an open challenge - limitations not adequately discussed
- Facial expressions don't always correlate with emotions
- Context also plays a role
- Biases and ethical issues around these technologies not addressed
- Possibility of perpetuating stereotypes or exclusions
- Lack of comparison to related work in applying CV for psychological assessment
- How does performance compare to state-of-the-art?