Human Vision and Computer Vision

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What are the goals of Computer Vision *
(Tick all that you find appropriate)

- [x] To interpret the visual signals captured by one or more cameras
- [x] To complement human vision with richer information
- [x] To create a model of the 3D world from one or more images
- [x] To emulate human vision system

Which of the sensory organs receive the maximum volume of information? * 0 points

- ( ) Skin (touch)
- ( ) Nose (smell)
- (•) Eyes (vision)
- ( ) Tongue (taste)
- ( ) Ears (audition)

Which of the following statements are true for Human Vision System * 0 points

- [x] Interpretation of a scene is subjective -- can differ from person to person
- [x] It involves semantic interpretation of the visual patterns
- [x] Data reduction is a key factor
- [x] It involves identification of of objects and their localisation

Please read this article. You are encouraged to find more discussions on the subject. *

Write in your own words, why there is more research on computer vision compared to other sensory inputs. YOU NEED NOT RESTRICT YOUR THOUGHTS TO WHAT YOU READ, BUT CAN EXPRESS YOUR OWN VIEWS TOO.

NOTES:
1. Cite your references
2. DO NOT COPY-PASTE FROM THE SOURCES.
3. Summarise your observations in maximum 10 sentences or bullet-points.

Computer vision research is getting much more attention than research on other sensory sources for a number of reasons. Vision is often thought of as the most important and complex sense, influencing the direction of study. This emphasis is based on both subjective importance, shown by personal preferences and language usage, and empirical importance, reflected in how the brain allocates resources and the workload it handle. Methodological and technological advances also gives vision an advantage in research. Culture and society, along with the prominence of visual stimuli in modern Western cultures, further fuel the focus on vision. Visual dominance, where visual information holds greater importance than information from other senses, also amplifies its potential as a rich research area. History and diverse cultures have demonstrated varying orders of sensory value. Computer vision research is bolstered by a rich research history, funding availability, and practical applications in fields such as automation and healthcare.

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