



AI for Visual Perception and Artificial Consciousness

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Message from the Guest Editors

Despite recent progress, AI still faces fundamental problems at the intersection of technology and perception. AI can help us gain deeper insights into visual perception and consciousness.

Visual perception refers to how living beings, including humans, interpret and make sense of visual stimuli from the surrounding environment. It spans the reception of visual information through the eyes, the processing of this information by the brain, and the subsequent construction of a meaningful perceptual experience.

On the other hand, artificial consciousness considers the possibility of designing machines or artificial systems associated with forms of consciousness or subjective experience. Today, AI can reliably recognise a face, but can it see it? Is AI able to identify itself by visually self-perceiving itself? Does conscious awareness compare favourably to what today's AI can do? Are we missing a key component?

The Special Issue aims to gather contributions in the form of research and review articles encompassing the multidisciplinary topics involved in artificial intelligence for perception and artificial consciousness.





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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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