



From Human Consciousness to AI Consciousness

Jen-Chuen Hsieh

Institute of Brain Science, National Yang-Ming University, Taipei, Taiwan

One phenomenal feature of human consciousness is the status of “qualia”. Qualia are defined to be individual instances of subjective, conscious experience. While “Theory of Mind, ToM” is pivotal for mental functionality, “Computational Theory of Mind, CTM” can be the kernel of AI science. Theoretically and operationally, the exclusive objective of “Weak AI” is the successful simulation of mental states, with no attempt to make computers become conscious or aware, etc. On the contrary, the objective of strong AI is a computer with consciousness similar to that of human beings. The question about the possible sensitivity (qualia) of computers or robots remains open. In this presentation, I will discuss the advancements of AI and neurotechnology, in the context of brain and mind science, as related to the consciousness issues of both human and humanoid AI/robotics.