International Workshop on Smart Perception and Interaction (SPI 2024)

The workshop on Smart Perception and Interaction (SPI) aims to bring together researchers and industry professionals to discuss the latest advancements and challenges in intelligent systems for perception and interaction. Smart perception primarily refers to machines simulating human sensory abilities, such as vision, hearing, and touch, through various sensors and technologies to recognize language, images, and more. Leveraging the powerful computational capabilities of computers, machines can perceive the external world or environment far beyond human capabilities. For instance, machine vision can detect not only visible light but also infrared, highlighting a significant advantage of machine intelligence. Human-computer interaction technologies further advance this by integrating visual, auditory, and tactile information through multi-channel information fusion theories and methods, enabling users to communicate with computers naturally using speech, gestures, eye movements, facial expressions and so on.

By sharing cutting-edge research and practical experiences, this workshop seeks to foster cross-disciplinary collaboration and innovation to address critical smart world applications.

Possible topics include but are not limited to:

- Machine Learning and AI

- Multi-Modal Learning

- Sensor Technologies

- Human-Computer Interaction

- Intelligent Robotics

- Affective Computing

- Smart Healthcare

Chairs:
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