**Human-Centered Computer Vision**

**Aim & Purpose:**

Humans are the most frequent and important participants in our daily visual data. Therefore, it is of great interest to understand humans via computer vision technics. In the computer vision community, there are a few popular topics related to understanding humans in images/videos, including person detection, person re-identification, human pose estimation, human parsing. These techniques can be widely used in various applications, e.g. autonomous driving, video surveillance, robotics, etc., and thus are also interesting for the industry. However, they remain challenging tasks although they have been investigated extensively. On one hand, people are of high diversity in terms of appearance, clothing and posture; on the other hand, the environment varies in real-world scenarios so that we have to handle bad weather conditions and poor illumination. To handle the above challenges, we are encouraged to study more robust and efficient methods, so as to push forward their applications in different fields.

This special session targets researchers from different fields in computer vision, including person detection, people tracking, person re-identification, human pose estimation, activity recognition etc. It encourages novel computer vision technics for understanding humans in images/videos, and will also assemble recent advances in the fields of computer vision and pattern recognition, etc.

We invite original and high-quality submissions addressing all aspects of related fields. Relevant topics include, but are not limited to:

* Person detection
* Multiple people tracking
* Person re-identification
* Person search
* 2D/3D human pose estimation
* Human shape estimation
* Human parsing
* Face detection
* Face recognition
* Human action recognition
* Human activity recognition
* Pedestrian trajectory prediction

**Session Chairs:**

* Shanshan Zhang, Nanjing University of Science and Technology, China ([shanshan.zhang@njust.edu.cn)](mailto:shanshan.zhang@njust.edu.cn))
* Meina Kan, Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS), China (kanmeina@ict.ac.cn)
* Cairong Zhao, Tongji University, China

([zhaocairong@tongji.edu.cn](mailto:zhaocairong@tongji.edu.cn))