IIHMSP-2022-IS02

Call for Paper

Invited Session on Advanced Computer Vision and Image Processing Technologies in Industrial Applications

Session Organizer: Prof. Huanyu Liu, Dr. Ran Wu

The wide application of visual sensors in industry has boosted a growing number of applications utilizing vision information. Autonomous vehicles rely on visual information in urban areas to realize automatic avoid-obstacle. Smart cameras are widely placed on road for violation vehicle detection. Intelligent medical systems can assist doctors in medical examinations and diagnoses. Factories employ smart manufacturing robots for high efficiency and low cost. Enormous images have been collected in above scenarios and efficient processing techniques are required. This special issue, titled "Advanced Computer Vision and Image Processing Technologies in Industrial Applications", aims to explore, and highlight technologies for visual information processing in industrial applications. Exploratory, experimental, and theoretical results are very welcome while specific applications of advanced techniques in manufacturing scenarios are also welcomed. Topics of interest include but are not limited to:

1. Image, video, and scene (both 2D and 3D) processing and understanding
2. Modeling, methodology and applications of action recognition and detection
3. Large-scale 3D modeling of urban indoor or outdoor scenes from images
4. Image understanding for real-world distributed video networks
5. Image and video understanding in big data
6. Medical image processing and applications
7. Emerging techniques for image, video and 3D vision, 3D imaging, visualization, animation, virtual reality and 3DTV
8. Lightweight technologies for efficient image processing
9. Cross-domain Image processing and understanding

10. Object detection, video tracking, object recognition, image restoration, etc.

Submissions:

Papers should follow the template on the conference website and be submitted via email to Dr. Ran Wu at 19B905019@ stu.hit.edu.cn

Important Dates:

Paper submission: October 5, 2022
Acceptance notification: November 5, 2022
Camera-ready copy and registration: November 12, 2022

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