

Advances in Image Processing and Computer Vision Techniques for Future Industries

Session chair:

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Abstract:

Image processing and computer vision have become integral components of modern industries, driving innovation and efficiency across various sectors. The proposed special session aims to bring together researchers, academicians, and professionals to explore recent advancements, challenges, and applications of image processing and computer vision techniques in shaping the future of industries. This session will provide a platform to exchange ideas, share research findings, and discuss practical implementations that bridge the gap between academia and industry.

Topics of Interest:

- Image enhancement and restoration
- Object detection and recognition
- Visual tracking and surveillance
- 3D reconstruction and modeling
- Machine learning and deep learning in computer vision
- Medical image analysis and diagnostics
- Robotics and automation
- Augmented reality and virtual reality applications
- Remote sensing and satellite image analysis
- Industrial quality control and inspection
- Applications in smart manufacturing, agriculture, healthcare, transportation, and more