

Endoscopic Imaging and Image Analysis

Aims and Scope:

Moving forward from open-surgery (laparotomy) to keyhole-surgery (endoscopy, laparoscopy) also brought the necessity to have novel attitude towards surgical actions from the experts. New instruments, new techniques are needed to perform these minimally invasive procedures. The aim of this session is to bring together researchers in various fields (i.e. physicians, computer scientists, and engineering technicians) to exchange and discuss new ideas and advances in the field of endoscopic imaging and related image analysis tasks.

Topics of interest include (but are not limited to):

- Multispectral imaging in endoscopy
- Automated decision support systems for endoscopy
- Computer-assisted processing and analysis of endoscopic images
- Deep learning techniques for object detection and recognition
- Endoscopic video analysis
- Virtual surgery and hardware development
- Registration with other modalities

Submission Process:

Interested authors are invited to submit papers to this special session through ISPA online submission system by marking the check box on the submission page corresponding to the desired special session. Authors should follow the author instructions for regular ISPA papers. The deadline for online paper submission for this special session is the same as the deadline for regular papers.

Review Process:

Papers submitted to this special session will be subject to peer-review. Accepted special session papers will be published in the Symposium Proceedings in the same length and format as regular ISPA papers.

Organizers:

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