Infra-Operative Imaging, Sensing and Augmented Reality in Image-Guided Surgery

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Message from the Guest Editors

Dear Colleagues,

Image-guided surgery (IGS) has gained widespread acceptance in various clinical practices. Although the core concepts of IGS have not changed, advances in image guidance technology, including the incorporation of intra-operative imaging, sensing and augmented reality, have the potential to enhance the safety of surgery, improve the accuracy of interventions, and aid in more complete surgery, with improved outcomes. In the past few years, significant progresses have been achieved in developing novel intra-operative imaging means, in incorporating smart sensing technology and in the introduction of new augmented reality display.

This Special Issue is open to research and review papers in this field, including, but not limited to:

• Intra-operative imaging
• Robotic imaging
• Surgical imaging and vision
• Intra-operative sensing, perception and recognition
• Augmented reality in IGS
• Multi-modal image fusion and visualization

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Special Issue

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Message from the Editor-in-Chief

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