



Image-Guided Medical Robotics

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Deadline for manuscript
submissions:

closed (15 September 2018)

Message from the Guest Editor

Dear Colleagues,

Image-guided medical robotics has been significantly advanced with the help of robotic technologies, as can be witnessed from numerous industrial and research outcomes. Various robotic platforms have been proposed and developed to further reduce the invasiveness of robot-assisted surgery, accelerate recovery, improve patient quality of life, and increase accuracy and precision of cancer diagnosis and treatment. However, there are still challenges to implementing robotic technology in image-guided therapies, such as the design of workflow, control, sensors, actuators, and materials for specific clinical applications.

The purpose of this Special Issue is to present papers addressing state-of-the-art research achievements and advances in image-guided interventional software and hardware technologies, and to discuss potential challenges from the clinical point of view. Particularly, emphasis is being placed on researching and developing medical robots that address clinical pain points, and successfully translate from benchtop to bedside, making real impact in hospital settings.

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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