

## Special Issue

# Recent Advances in Surgical Robotics

### Message from the Guest Editors

Surgical robots have revolutionized medicine by enabling minimally invasive procedures for complex surgeries. Surgical robots improve the dexterity and precision of surgeons and provide augmented images to assist surgeons during surgeries. These benefits have greatly improved minimally invasive procedures, which in turn has greatly benefited patients. This Special Issue seeks to cover a wide range of the latest technologies in surgical robotics, including the design and modeling of surgical/interventional robots, sensing, imaging, motion planning, intelligent control, navigation, deep learning, and artificial intelligence, as well as surgical and diagnostic assistance systems in the operating room or hospital. This Special Issue also welcomes the submission of preclinical and clinical research on related technologies.

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### Guest Editors

Dr. Keri Kim

Dr. Ryu Nakadate

Dr. Jumpei Arata

Dr. Ayoung Hong

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### Deadline for manuscript submissions

closed (20 July 2025)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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