Special Issue

Laparoscopic Versus Robot-Assisted Surgery

Message from the Guest Editors

Robotic-assisted surgery(RAS) represents a significant advancement in minimally invasive surgical techniques, integrating medical science, robotics, and engineering. RAS has revolutionized numerous surgical specialties, offering substantial advantages such as enhanced precision, three-dimensional visualization, and improved ergonomics. Research in RAS is pivotal to enhancing surgical outcomes, patient safety, and healthcare efficiency. Ongoing research primarily focuses on refining surgical techniques, robotic instruments, haptic feedback, integrating artificial intelligence, and developing more specialized robotic platforms. Consequently, the objective of this Special Issue is to present novel advancements in RAS and compare them to traditional laparoscopic techniques. Original research articles and reviews are welcome for this Special Issue. Research areas may encompass (but are not limited to) the following: the utilization of robotic platforms and devices for minimally invasive surgery and their comparative analysis with conventional laparoscopic surgery, including novel approaches and techniques for RAS, and innovative solutions in the field of RAS.

Guest Editors

Dr. Francisco Miguel Sanchez-Margallo
Jesus Usón Minimally Invasive Surgery Centre (JUMISC), Caceres, Spain

Dr. Juan Alberto Sánchez-Margallo
Jesus Usón Minimally Invasive Surgery Centre (JUMISC), Caceres, Spain

Deadline for manuscript submissions

30 September 2025

Surgeries

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Salomone Di Saverio
ASUR Marche, AV5, Hospital of San Benedetto del Tronto, 63074 San Benedetto del Tronto, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2025).