

Special Issue

The Application of Artificial Intelligence in Surgical Procedures

Message from the Guest Editors

We are pleased to announce a Special Issue of *Surgeries* dedicated to the transformative role of Artificial Intelligence (AI) in the field of surgery. The integration of AI technologies is rapidly reshaping surgical practice, from preoperative planning and intraoperative guidance to postoperative care and outcome prediction. This Special Issue aims to showcase cutting-edge research, innovative methodologies, and comprehensive reviews that highlight the current and future impact of AI across all surgical disciplines. We invite submissions that explore the development and application of AI-driven tools for surgical decision support, robotic-assisted procedures, image analysis, and real-time intraoperative navigation. Topics may also include surgical simulation and training, predictive analytics for patient outcomes, digital twins, telemedicine, and the ethical, legal, and social implications of AI in surgical settings. Contributions addressing challenges such as data privacy, algorithm transparency, and the integration of AI into clinical workflows are particularly welcome.

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Deadline for manuscript submissions

31 March 2026



Surgeries

an Open Access Journal
by MDPI

Impact Factor 1.1
CiteScore 1.3



mdpi.com/si/255593

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About the Journal

Message from the Editor-in-Chief

Surgery, as in the ‘stitching of wounds with bone needles’, is the oldest form of medicine after herbs, dating from 30,000 BC. While basic principles remain, technology has progressed enormously, especially in recent years. *Surgeries* provides a platform for all surgery-related developments, both clinical and scientific, while its open access format ensures global availability. A wide variety of subjects will be covered by our enthusiastic, international, and interdisciplinary Editorial Board and team. Besides ensuring rapid, high-quality review, editors will actively organize Special Issues on topics of high interest. Together with authors and reviewers, we aim to develop *Surgeries* into an indispensable, easily accessible source for surgery professionals and beyond.

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