

## Special Issue

# Innovations in Hollow Viscera Imaging: Engineering Breakthroughs and Clinical Translation

### Message from the Guest Editors

Here's a concise version:

**\*\*Bioengineering Advances in Hollow Viscera Imaging\*\***

Imaging hollow abdominal viscera faces challenges like dynamic morphology and low contrast. Emerging bioengineering solutions—such as swallowable capsules, AI-enhanced reconstruction, and functional impedance mapping—are improving resolution, reducing invasiveness, and enabling functional assessment.

This Special Issue highlights innovations bridging technology and clinical use, including:

- High-resolution functional imaging
- Minimally invasive micro-robotic devices
- Computational modeling of viscera–wall interactions
- AI-driven diagnostics (e.g., generative AI, reinforcement learning for Crohn's detection)
- Advanced materials (e.g., stretchable sensors, enzyme-activated markers)
- 3D-printed phantoms, smart stents, and biomarker chips

We welcome research on magnetic actuation, optoacoustic probes, CFD analysis, biocompatibility, cybersecurity, and cost-benefit evaluations.

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### Guest Editors

Prof. Dr. Kelvin K. L. Wong

Prof. Dr. Adrian David Cheok

Prof. Dr. Dhanjoo N. Ghista

Dr. Simon Fong

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### Deadline for manuscript submissions

30 September 2025



**Bioengineering**

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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

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