

Special Issue

Exploring Artificial Intelligence in Precision Medicine for Gastrointestinal Diseases

Message from the Guest Editor

AI has a transformative impact on medicine in several key areas: diagnostics, personalized medicine, predictive analytics, drug discovery, virtual health assistants, robotic surgery, and clinical decision support. In gastroenterology, AI is making significant strides through various applications:

- **Endoscopic Image Analysis:** AI algorithms analyze images and videos from endoscopies to identify abnormalities such as polyps or tumors, improving the diagnostic accuracy and reducing missed detections.
- **Colorectal Cancer Screening:** AI systems enhance the detection of colorectal cancer during colonoscopies by automatically identifying suspicious lesions, which can lead to earlier interventions.

In particular, the progress of endoscopy in the pancreaticobiliary field has been remarkable. Moreover, the recent development of cholangioscopy and pancreatoscopy has provided further possibilities with high diagnostic ability. In this Special Issue, we invite authors to submit papers on clinical advances in biliary and pancreatic endoscopy in terms of both diagnosis and treatment.

Guest Editor

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