

Special Issue

The Next Generation of Upper Gastrointestinal Endoscopy

Message from the Guest Editor

This Special Issue focusses on the latest imaging modalities in the field of gastrointestinal (GI) endoscopy, as well as current innovations, mainly regarding the development of artificial intelligence (AI). Computer-aided diagnosis (CAD) is garnering increased investigation. Tracking suspicious lesions needs to be performed with the aim of screening in real time to afford automated diagnoses during on-going endoscopic procedures. Although AI solutions are at a more advanced stage of development for colonic diseases than for conditions of the upper GI tract, there have been promising reports concerning the use of AI application in upper GI endoscopy. Furthermore, results of hypoxia imaging are enhanced when utilizing an AI system, promising an exciting future for functional endoscopy. Endoscopists should consider finding a balance between AI and hyperspectral imaging that the human eye cannot appreciate or actually cannot see beyond the visible light region, using methods such as photodynamic diagnosis.

Guest Editor

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