Special Issue

AI-Driven Advances in Computational Pathology

Message from the Guest Editors

Histological assessment of human tissue is crucial for detecting and treating cancer and other diseases. Integrating digital image analysis with artificial intelligence (AI) has transformative potential, addressing challenges in precision medicine and computational pathology. While deep learning excels in medical image analysis, current models often lack interpretability and explainability. Incorporating disease pathobiology improves clinical trust and generalizability.

AI-augmented histopathological image analysis enhances diagnostic precision, revealing patterns and biomarkers that may evade human observation. By analyzing texture, shape, intensity, and spatial architecture, AI provides insights aiding clinical decisions. Beyond diagnostics, it predicts disease progression, guides treatment, and advances personalized medicine.

Histopathological biomarkers are pivotal for patient stratification, resource allocation, and therapy planning. Leveraging AI and digital pathology enhances diagnostic speed, accuracy, and scalability, offering promising tools to improve patient outcomes and advance cancer care globally.

Guest Editors

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

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