Special Issue

Role of Artificial Intelligence from the Diagnosis to the Treatment of Renal Cancer: Imaging, Histology and Beyond

Message from the Guest Editors

Artificial intelligence (AI) has made considerable progress in the last decade and is the subject of much of the contemporary literature. This trend is driven by improved computational abilities and increasing amounts of complex data that allow for new approaches in analysis and interpretation. Renal Cell Carcinoma (RCC) has shown even more importance at different moments of patients' history, from diagnosis to intraoperative settings. In fact, approximately 10%–17% of kidney tumors are designated as benign in histopathological evaluation; however, certain co-morbid populations (the obese and elderly) have an increased peri-interventional risk. AI offers an alternative solution by helping to optimize precision and guidance for diagnostic and therapeutic decisions. AI applications can be found in any aspect of RCC management, including diagnostics, perioperative care, pathology, and follow-up. In this Special Issue, we invite authors to submit papers (clinical studies or reviews) to investigate the different aspects of AI for RCC, from imaging to histology and beyond, including experiences in pathology, radiology or urological interventions.

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