



Radiomics in Oncology II

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Message from the Guest Editor

Dear Colleagues,

In the era of oncologic personalized medicine, radiomics represents an emerging diagnostic tool to support clinicians in decision making, cancer detection, and treatment response assessment. Radiomics by the extraction of several quantitative features, including tumor shape and textural parameters, could provide additional information on cancer phenotype and the tumor microenvironment. Digitally coded medical images that include information related to tumor heterogeneity are transformed in quantitative and dimensional data. Radiomics-derived data, if combined with other clinical data and correlated with outcome, could support physicians in making an accurate and structured evidence-based clinical decision.

In that scenario, radiologists have the means to stratify patients at diagnosis according to tumor aggressiveness and to predict or assess the treatment response in neuro-oncology, lung cancer, gastrointestinal and hepatobiliary tumors, as well as gynecological and genitourinary cancers. Radiomics has the main advantage for physicians that it could be an additional and integrated tool in patient management workflow.

Welcome to the era of bright data!





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