

Special Issue

Dual-Energy and Spectral CT in Clinical Practice: 2nd Edition

Message from the Guest Editor

Spectral CT systems represent powerful imaging tools in clinical practice. Due to its intrinsic high spatial and contrast resolution, DECT can be utilized to diagnose brain, body and skeletal disorders in both acute and elective settings. In particular, DECT has been widely employed to improve the identification of substances from different spectral information by using dedicated algorithms. DECT has been proposed as an alternative to MRI in musculo-skeletal radiology. Additionally, monoenergetic reconstructions can be employed in order to reduce metal-induced artifacts, or to increase the conspicuity of contrast material within the arterial and venous vessels or to increase the contrast in the abdominal parenchyma. In addition, DECT and spectral CT systems has been used to image oncologic patients via a qualitative and quantitative approach. In recent years, photon-counting CT has proven to be a reliable method in the complex diagnosis of cardiovascular diseases, not only for the detailed evaluation of coronary arteries but also for functional assessments. Additionally, it represents an extremely promising technique in the fields of oncology and musculoskeletal imaging.

Guest Editor

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