

Special Issue

Advances in CT Angiography and Perfusion

Message from the Guest Editor

CT angiography and CT perfusion are not new imaging techniques. CT angiography, in particular, has been widely used in the diagnosis of vascular diseases for many years. However, recently, major advances in both modalities have been observed, triggered mainly by the introduction of mechanical thrombectomy in the treatment of acute ischemic stroke (AIS). This has created a need for the rapid and accurate analysis of CT angiography and CT perfusion, to provide the information required for the selection of stroke patients for endovascular therapy. Recent studies have shown that useful tools in this clinical situation include software packages based on artificial intelligence (AI). Currently, there are several commonly used AI-based applications that support radiologists in the analysis of CT angiography and CT perfusion, providing comprehensive data for making treatment decision in AIS patients. Although the main scope of this Special Issue is the application of CT angiography and CT perfusion in AIS diagnosis, all authors with novel research results regarding these imaging techniques are encouraged to submit their work.

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