

Special Issue

Advances in Musculoskeletal (MSK) Radiology

Message from the Guest Editor

There has been tremendous progress in the development of novel imaging technologies in relation to musculoskeletal radiology. Most notably, artificial intelligence (AI) and Generative AI have become front-and-centre topics in musculoskeletal research, with great potential for clinical applications, such as accelerated MRI imaging, synthetic MRI, quantitative imaging, lesion detection, and recognition. Accelerated MRI imaging has proven to be successful in expediting MRI imaging, resulting in shorter imaging times. Cartilage compositional, quantitative and qualitative imaging discoveries have played a key role in advancing osteoarthritis research and therapeutics. New frontiers in musculoskeletal imaging have emerged over the past decade. Synchrotron technology has significantly evolved, allowing innovative methods to emerge in imaging, such as MicroCT, Phase Contrast CT, Quantitative Dual Energy CT (QDECT), K-Edge Subtraction, and Micro-X-Ray Fluoroscopy. The scope of this Special Issue is to inform and update readers with the recent advances in musculoskeletal radiology through high-quality and ground-breaking research studies.

Guest Editor

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