



An Update on Radiological Diagnosis in 2024

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Message from the Guest Editors

Dear Colleagues,

The radiological diagnosis landscape has undergone profound transformations, evolving significantly through technological advancements and the integration of artificial intelligence. These enhancements not only redefine diagnostic accuracy but also augment the radiologist's role in clinical decision-making as of 2024. This SI aims to provide a comprehensive update on the current state of radiological techniques, focusing on recent innovations in imaging technologies, the application of machine learning algorithms, and their implications for patient care. By examining cutting-edge developments in hardware and software and their synergistic interactions, we will explore how these advancements contribute to improved diagnostic precision and patient outcomes. Furthermore, this review discusses the ethical considerations and challenges that accompany the implementation of AI in radiology, highlighting the need for balanced integration of technology in healthcare practices. Through this analysis, we aim to elucidate the pivotal changes in radiological practices, emphasizing their impact on both medical professionals and the healthcare system at large.





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