

## Special Issue

# Artificial Intelligence-Driven Radiomics in the Diagnosis and Prognosis of Cancer

### Message from the Guest Editor

The convergence of Artificial Intelligence (AI) and medical imaging signifies a paradigm shift in healthcare diagnostics. Traditional diagnostic methodologies, reliant on the human eye and expertise, possess inherent limitations such as inter-observer variability. AI, especially deep learning architectures like Convolutional Neural Networks (CNNs), offers a remedy. Moreover, AI's potential extends beyond mere diagnosis. Predictive modelling, image reconstruction, and workflow optimisation are facets undergoing rapid transformation under AI's influence. However, the marriage of AI and medical imaging is not without challenges: data privacy, algorithmic transparency, and clinical integration pose pertinent questions. This Special Issue delves deep into these advancements and hurdles, providing a holistic perspective on the current state and future trajectory of AI in the medical imaging domain. It underscores the pivotal role AI is positioned to play in shaping the next frontier of diagnostic medicine.

### Guest Editor

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## Diagnostics

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