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Sensing Functional Imaging Biomarkers and Artificial Intelligence

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Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editor

In the new era of target therapy, approaches to imaging are shifting from qualitative to quantitative. The sensing of functional imaging biomarkers could narrow quantitative data, reflecting microenvironmental diseases' heterogeneity, and usually serve to refine or enhance the diagnostic information obtained by conventional image analysis, assess early therapeutic responses, predict individual outcomes, and guide treatment based on patient- and disease-specific features.

Following the appearance of artificial intelligence and its fantastic performance, research using machine learning and AI has been conducted in medical image analysis. At present, medical image analysis is one of the leading fields of AI application. Machine learning and deep learning are now being used not only for lesion detection, differential diagnosis, and region extraction but also for image alignment and reconstruction. The dramatic improvement in AI performance has led to the adoption of AI in clinical sites, especially in the fields of nuclear medicine and radiology.

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Special Issue



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Message from the Editor-in-Chief

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