# Special Issue

# Challenges and Advances in Radiomics and Artificial Intelligence for Breast Cancer

## Message from the Guest Editor

Radiomics and artificial intelligence (AI) are emerging technologies with the potential to revolutionize the diagnosis and treatment of breast cancer. Radiomics involves the extraction of quantitative features from medical images to provide valuable information about tumor characteristics and behavior, while AI algorithms can analyze these data to generate predictive models that aid in making informed decisions about patient care. This Special Issue will explore, but is not restricted to, the following topics:

- Radiomics and AI for breast cancer diagnosis and staging;
- Radiomics and AI for the differentiation of benign and malignant breast lesions;
- Radiomics and AI for the prediction of treatment response in breast cancer patients;
- Radiomics and AI for the preidction of breast cancer recurrence;
- Advancements in imaging technology and methods for breast cancer diagnosis and treatment;
- Challenges and limitations of using radiomics and AI for breast cancer diagnosis and treatment.

## Guest Editor

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## Deadline for manuscript submissions

closed (31 December 2024)

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# About the Journal

## Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

## Editor-in-Chief

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