

Name of Journal: *Artificial Intelligence in Medical Imaging*

Manuscript NO: 57292

Manuscript Type: REVIEW

Breast dynamic contrast-enhanced-magnetic resonance imaging and radiomics:

State of art

Orlando A *et al.* Breast DCE-MRI and radiomics

Alessia Orlando, Mariangela Dimarco, Roberto Cannella, Tommaso Vincenzo Bartolotta

Abstract

Breast cancer represents the most common malignancy in women, being one of the

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The Application of Radiomics in Breast MRI: A Review ...

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Breast cancer has been a worldwide burden of women's health. Although concerns have been raised for early diagnosis and timely treatment, the efforts are still needed for precision medicine and ind...

Radiology | Breast MRI Interpretation

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State-of-the-art resource details effective breast MRI techniques for improved screening and diagnosis. Magnetic resonance imaging (MRI) of the breast has evolved into an important breast cancer screening tool and major advance in women's health.

Frontiers | Deep Learning vs. Radiomics for Predicting ...

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Jan 31, 2020 · For breast cancer, two recent studies have assessed the value of radiomics features extracted from the primary tumor region at DCE-MRI and diffusion-weighted MRI (DWI) in predicting sentinel lymph node metastasis, where the reported AUC, sensitivity and specificity ranging from 0.805 to 0.869, 0.700–0.778, and 0.747–861 respectively (9, 10 ...

Radiomics in breast cancer classification and prediction ...

<https://www.sciencedirect.com/science/article/pii/S1044579X20300833>

DCE-MRI-derived radiomic features were also used by Whitney et al. to differentiate benign lesions from luminal A breast cancers [99]. By using a linear discriminant analysis (LDA) classifier, they demonstrated the usefulness of features such as irregularity and entropy, in this specific classification task, obtaining a final AUC of 72.9 %.

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Radiomics and Decision Support in Breast MRI. The development of radiomics, which is the conversion of medical images into quantifiable data which facilitate the clinical decision support for improving diagnostic, prognostic, and predictive accuracy, is motivated by the concept that images are more than pictures and contain valuable information about the tissue underlying pathophysiological ...

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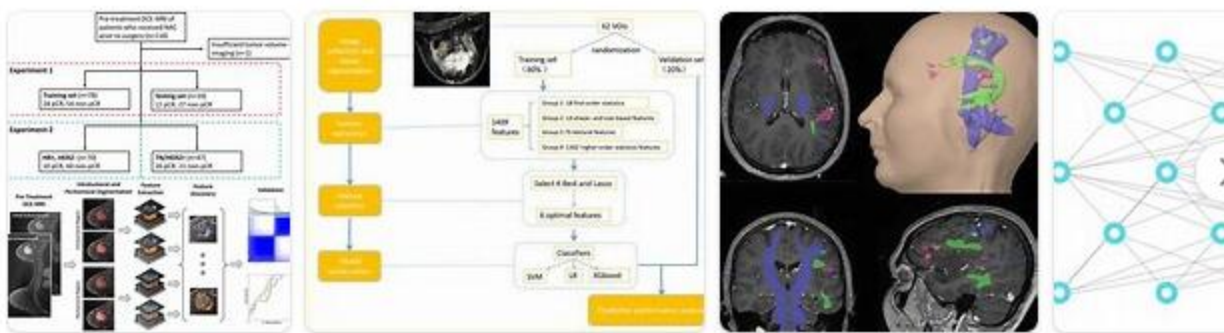
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Breast dynamic contrast-enhanced-magnetic resonance



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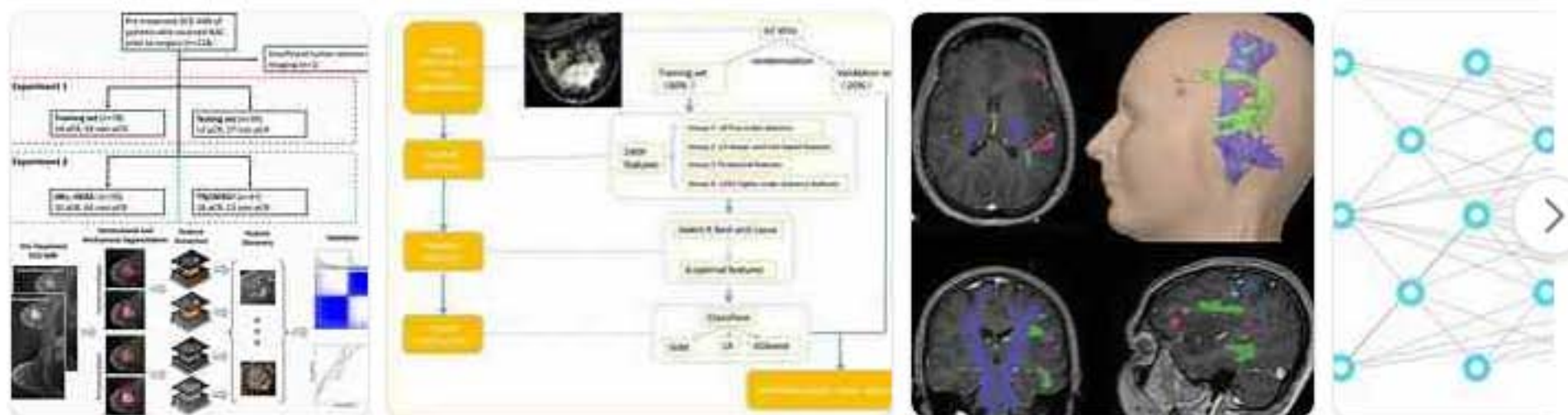
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