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Patent Search

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Abstract:

DESIGN THINKING BASED DEEP LEARNING MODELS FOR EARLY AND ACCURATE DETECTION OF HIP CANCER This invention presents a pioneering methodology that n learning models with design thinking principles to achieve early and precise hip cancer detection, particularly in cases of osteosarcoma. Through comprehensive data preprocessing, and the application of deep convolutional neural networks (CNNs), this innovation identifies subtle patterns in medical imaging data related to hip he integrates a user-centered design approach, actively involving medical professionals and patients in refining the diagnostic tool's usability and interpretability. Ultima approach promises improved diagnostic accuracy and a more intuitive interface, enhancing the early detection of hip cancer for better patient outcomes

Complete Specification

Description:FIELD OF THE INVENTION

The field of the invention pertains to healthcare and medical diagnostics, specifically focusing on the early and accurate detection of hip cancer, with a primary emphasis on osteosarcoma. The invention combines deep learning models, particularly convolutional neural networks (CNNs), with principles of design thinking to develop a comprehensive and user-centric approach for diagnosing hip cancer. Through the integration of medical imaging data, patient history, and user-centered design, the invention seeks to improve the precision and accessibility of hip cancer detection, ultimately benefiting patients and healthcare professionals.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Hip cancer, exemplified by osteosarcoma, is a relatively rare but aggressive form of cancer that primarily

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