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DICOM Data from a Data Warehouse Design Perspective*Behrooz Seyed-Abbasi*

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Abstract:

Medical images play an essential role in electronic patient health care information for diagnosis, recommendation, and study. In radiology departments, the digitized imaging information for various modalities is stored in a standard Digital Imaging and Communication in Medicine (DICOM) record. These digitized imaging records create very large volumes of electronic files in the medical information system. The records have two parts: text and image. The text part describes the details and specifications of the digitized images. This paper provides a methodology for storing the text imaging information in an integrated and centralized data warehouse for multiple medical facilities for enhanced information retrieval and analysis.