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Application Details

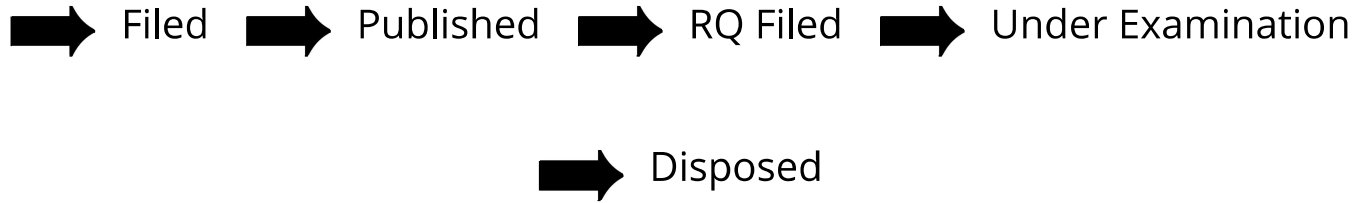
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(57) Abstract :
 7. ABSTRACT Tuberculosis (TB), a potentially serious infectious lung disease, continues to be a leading cause of worldwide death. Proven to be conveniently efficient and cost-effective, chest X-ray (CXR) has become the preliminary medical imaging tool for detecting TB. The need to strengthen the treatment and screening in TB affected countries. In this proposal, a systematic review is carried on deep learning-based Computer-Aided Diagnostic (CAD) systems that are used to analyze chest X-rays for diagnosing pulmonary tuberculosis (TB). Deep learning has recently become one of the most successful techniques, particularly in the analysis of medical images. In Deep learning Convolutional Neural Networks (CNNs) are widely used for TB detection. A CNN model is commonly comprised of convolutional layers, sub-sampling/ pooling layers, and fully connected layers. By assembling the individual CNN models, the classification accuracy of CXRs is further improved. Moreover, each model presents an unstable and unpredictable performance on different datasets and for different classification tasks. The Figure associated with Abstract is Fig 3.

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