

ANALYSIS OF MYCOBACTERIUM TUBERCULOSIS BACILLI CELLS USING ARTIFICIAL INTELLIGENCE

Area of the Research: Medical Imaging and Artificial Intelligence

Tools going to Used: MATLAB

Existing System:

The original sputum images are noisy and blurred it needs to be preprocessing, enhancing the images for result. Color image segmentation is used to locate the regions correspond to bacilli. In the existing method the Online Sequential Extreme Learning Machine (OS – ELM) is used for detection and classification of TB bacilli in tissue specimen.

Proposed System:

Tuberculosis is an infectious disease cause by infection of a bacterium called Mycobacterium tuberculosis. TB is a curable disease but it can turn deadly if untreated. Therefore early detection of TB infection is the key to successful control and treatment of the disease. The advancement in computer technologies, Image Processing algorithms and Artificial Intelligence for computer aided tuberculosis diagnosis is used to enhance the diagnostic performance and processing efficiency to find out the early detection of Tuberculosis bacilli in the sputum for Pulmonary TB.