

THE REVIEW OF LUNG DISEASES DETECTION USING BIO-INSPIRED ALGORITHM

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Lung disease is a most common disease in the world. To find the lung affected disease by using Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) scan. Spirometry test is helpful to identify the disease at the early stage. This test is used to analyze the functions of lung disease. Tumor, Abnormal lymph nodes, Pleural disorder, Pneumonia, Pulmonary emphysema, Asthma, Cancer and, Sarcoidosis these are the disease infected the lungs. This problem is mainly focus on lung affected disease which is used to diagnose disease from the chest x-ray, by using CT and MRI scan. Some of the Bio-inspired algorithms are used for these work that are Binary Artificial Bee Colony (BABC), Chaotic Bird Swarm Optimization (CBSO), Moth-Flame Optimization (MFO), Firefly Optimization (FFO), Artificial Bee Colony Optimization, Ant Colony Optimization, Whale Optimization Algorithm (WOA), Adaptive Particle Swarm Optimization (APSO), Particle Swarm Optimization (PSO), Bee Colony Optimization (BSO), Adaptive Optimization, Adaptive Sine Cosine Crow Search (DNN-ASCCS), Improvised Grey Wolf (IGW), Improved Cuttlefish (ICF), Elephant Herding Optimization (EHO), Multi-Objective Genetic Algorithm (MOGA), Improvised Crow Search Algorithm (ICSA) and Cuckoo Search (CS) algorithm. Other than Bio-inspired algorithm Support Vector Machine (SVM), K-Nearest Neighbour (KNN), Artificial Intelligence, Machine Learning (ML), Artificial Neural Network (ANN) and Deep Learning Algorithm is also used Bio-inspired algorithm is applied for classification of lung disease.