Title of the project: Early Stage Disease Diagnosis Using Human Nail in Image Processing

Name of the students: Pavithra V, Navanisha D, Reshika D

Register Numbers: 211417104182, 211417104161, 211417104224

Name of the Guide: Mrs.A. Kanchana M.E.

Assistant Professor

**ABSTRACT**

Human’s hand nail is analysed to identify many diseases at early stage of diagnosis. Study of person hand nail color helps in identification of particular disease in healthcare domain. The proposed system guides in such scenario to take decision in disease diagnosis. The input to the proposed system is person nail image. The system will process an image of nail and extract features of nail which is used for disease diagnosis. Here, first training set data is prepared using Weka tool from nail images of patients of specific diseases. A feature extracted from input nail image is compared with the training data set to get result. In this experiment we found that using color feature of nail image average 65% results are correctly matched with training set data during three tests conducted. Human nail consist of various features, out of which proposed system uses nail color changes for disease diagnosis.