

Image Analysis and Processing 2nd Assignment
07 June 2024

Use the dataset in <https://www.kaggle.com/paultimothymooney/chest-xray-pneumonia> and develop an intelligent system to detect pneumonia in chest X-ray images. Consider the following steps:

1. Explore the data and define appropriate classes
2. Visualize data and employ appropriate preprocessing to X-ray images
3. Develop the detection algorithms
 1. Using features and classical machine learning techniques
 2. Using a neural network architecture (you may investigate various architectures or use an existing one)
4. Present the results of your algorithms (confusion matrix, accuracy, etc.)