# ABSTRACT

The science of remote sensing has seen a massive increase in the generation and enhancements of digital images captured from airplanes or satellites that cover almost each angle of the surface of the earth. This growth in data has pushed the community of geoscience and remote sensing(RS) to apply deep learning algorithms to solve different remote sensing tasks. Deep Learning (DL) algorithms are considered as the methodology for remote- sensing and image analysis over the past years. Various fundamentals of deep learning methods are frequently adopted for change detection. To detect the changes occurring in a geographical area hereby, we use Convolutional Neutral Network method. This proposed method adopts a patch-based approach. It is mainly used for analyzing visual imagery. It consists of multiple convolutional layers. These layers contain number of filters to produce the feature map by dot product followed by pooling. This resultant image is given as input to the fully connected network. Then we train the network in a semi-supervised way. The final image will display the change detection between the images. This paper will be used for further reference.