MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(NBA Accredited)

MITE

Invent Solutions

A PROJECT SYNOPSIS ON

"GENERATION OF PHOTOREALISTIC IMAGE USING GAN AND SPADE"

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Project Guide

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Abstract

We propose a tool for the synthesis of photorealistic images. This tool takes an input semantic layout and uses GAN (Generative Adversary Network) with the SPADE (Spatially Adaptive (de)Normalization) layer to generate a visually appealing image. GAN is a special neural network with the ability of image-to-image transformation [1]. SPADE layer retains the information contained in the input semantic masks, which helps in the production of a realistic image. CNN (Convolutional Neural Network) [3] is used as a generator as well as a discriminator, to produce a sample (output image) and govern the dissimilarity (error) concerning the training set respectively [1].