California State University San Bernardino School of Computer Science and Engineering

#### **CSE 6950 Graduate Independent Study**

#### **Date**

Dec 7, 2021

# <u>Time</u>

11:00 AM

## **Location**

Zoom meeting https://csusb.zoom.us/j/85285978159

# <u>Title</u>

Deep learning edge detection

### **Student**

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# **Advisor**

Haiyan Qiao

## Abstract

In the field of computer vision, edge detection has always been one of the basic functions to implement various image processing applications such as computer vision.

In this Independent Study, in addition to the most popular Canny edge detection method, the most recent research results, the HED edge detection algorithm based

on deep learning neural network proposed in 2015 is studied. The difference between the traditional Canny algorithm and the deep

learning edge detection algorithm in terms of the implementation and the results will be presented.