Predicting LIDAR Intensity from RGB and Depth Images

Project Report in computer science

vorgelegt von

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Contents

Abstract

This project will use rgb images and depth maps to predict lidar intensities. The neural network pix2pix will be used to train and evaluted on the kitti dataset.

Chapter 1

Introduction

1.1 Motivation

the sensor simulation project focuses on different apporaches with the lidar images on the kitti dataset. In this work the

1.2 Contribution

The use of the depth as addtional input is a new way of improvement for the lidar intesity predicton.

1.3 Related Work

bpnet depth anything v1 2 and metric change pix2pix to 4 dim input

Chapter 2

Preparations

used google colab, pix2pix network getting the right input, pix2pix problems

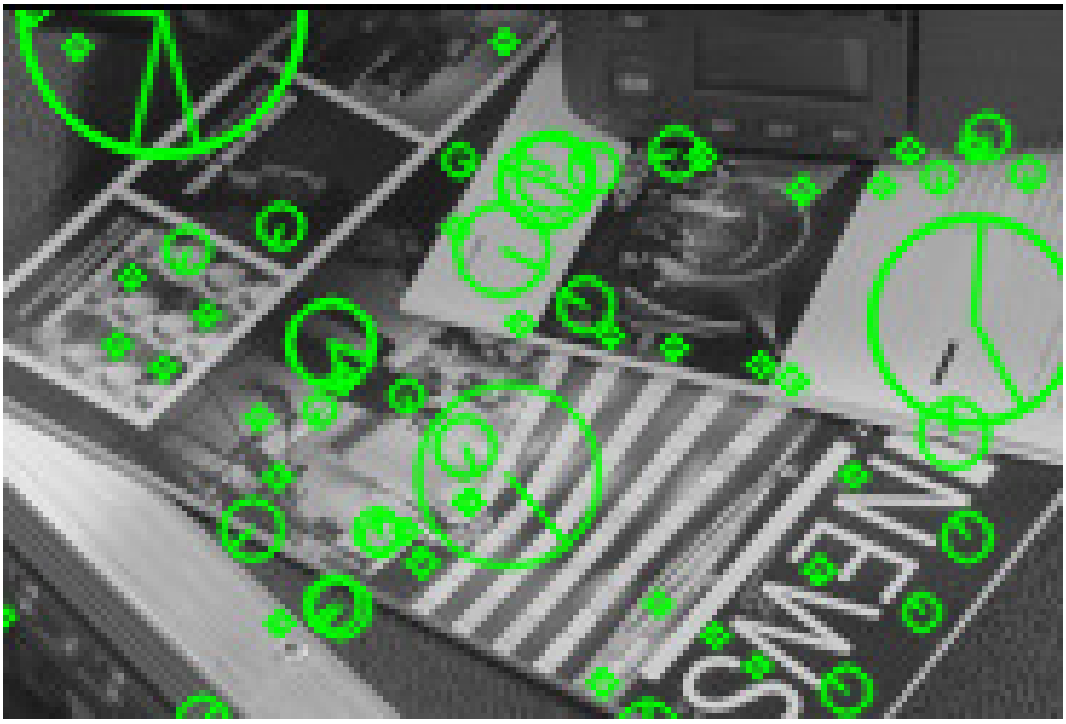

Figure 2.1: caption.

Chapter 3

Predicting LIDAR Intensity from RGB and Depth Images

3.1 Setup

used the bp net it is for depth completion and depth prediction

3.2 Implementation

3.3 Results

test run rgb only. depht from depthanything the depth from depthanything v2 and metriv form depthanything v2 6 runs with different solution

Chapter 4

Conclusion

4.1 Appendix

4.2 References

List of Figures