

SemanticPaint

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Outline

- ① Introduction
- ② State of the Art
- ③ Pipeline
- ④ Results
- ⑤ Discussion and Outlook

Introduction



Introduction

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Segmentation

Table: Segmentation Results

Component	LivingRoom	Bedroom	Kitchen	Desk	Average
User Interaction	99.35%	97.61%	96.09%	97.73%	97.7%
Forest Prediction	94.57%	88.31%	82.58%	90.29%	88.94%
Final Inference	96.26%	95.19%	90.69%	95.55%	94.42%

Features

Table: Feature Comparison

Feature	LivingRoom	Bedroom	Kitchen	Desk	Average
VOP	94.57%	88.31%	82.58%	90.29%	88.94%
△ RGB mean	80%	71.84%	76.29%	73.42%	75.39%
Depth Probe	77.54%	61.79%	84.9%	68.9%	73.06%
Color Probe	56.39%	65.68%	60.77%	60.74%	60.9%
SURF	43.74%	67.12%	57%	58.13%	56.5%
SPIN	58.77%	43.22%	48.41%	36.1%	46.63%

Streaming Random Forest

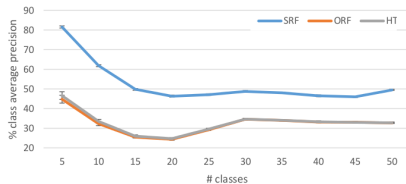


Figure: Average Precision

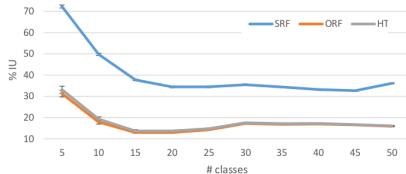


Figure: Intersection/Union

Data:
300 objects
51 classes
full revolution
3 points of view

SRF - Streaming Random Forest
ORF - Online Random Forest
HT - Hoeffding Tree

Summary

Failures

Future Work

Two columns

Left

Right

How to include an image

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