

BusBot: A Stain Learning Approach

Anthony Chen and Detian Shi

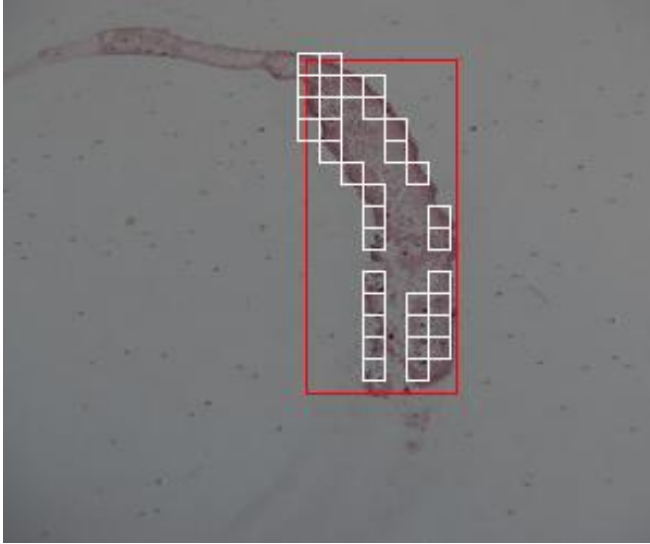


Fig. 1. Comparison of seed generated objects (bottom row) and each original STL object (top row).

Abstract—In this paper, we present an approach towards learning stains from a variety of surfaces.

I. INTRODUCTION

STUFF ABOUT DOMESTIC ROBOTS. In this paper, we consider the challenge of enabling a robot to identify stains on a surface and clean them. Specifically, we focus on developing algorithms that enable a robot to correctly identify stains. We first develop a series of methods to extract features from stains in images. We then use machine learning techniques to classify stained sections on images.

II. APPROACH

A. Feature Extraction

- 1) Image Segmentation: BLAH
- 2) Average Window Approach: FOO

B. Learning Features

FOO

III. RESULTS AND DISCUSSION

Blahblah

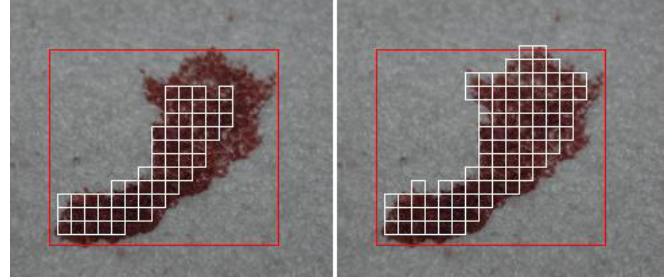


Fig. 2. Comparison of seed generated objects (bottom row) and each original STL object (top row).

A. Contrast

B. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

IV. CONCLUSIONS

A conclusion section is not required. Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extensions.

APPENDIX

Appendixes should appear before the acknowledgment.

ACKNOWLEDGMENT

The preferred spelling of the word acknowledgment in America is without an e after the g. Avoid the stilted expression, One of us (R. B. G.) thanks . . . Instead, try R. B. G. thanks. Put sponsor acknowledgments in the unnumbered footnote on the first page.

References are important to the reader; therefore, each citation must be complete and correct. If at all possible, references should be commonly available publications.