Automatized Segmentation of Cracks in Solar Cells

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***Abstract*—**

***Index Terms*—Crack detection,**

I. Introduction

- Some basics and marketing
- State-of-the-art methods

II. Materials

- PV cells (mono/polycrystalline cells and their differences)
- PL and EL (maybe some other techniques, the advantage of EL over them)

III. Methods

A. Preprocessing

- Fourier Filtering
- ROI of the solar cell
- Noise-reduction filters

B. Crack Detection

- BP description (as one of the computer vision techniques used in industry)
- Adapted Vesselness

IV. Results and Discussion

V. Conclusion

VI. References