

CENG466, Fall 2022, THE 3

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Abstract—

Index Terms—

I. FACE DETECTION

A. Preprocessing

B. K-Means

C. Context Based Postprocessing

II. PSEUDO-COLORING

III. DEPENDENCIES

We used following libraries for the described reasons.

- **os:** Handling non-existent input or output paths.
- **math:** Performing square root operation.
- **numpy:** Executing array and matrix operations.
- **PIL:** Reading images and converting them to arrays.
- **matplotlib:** Creating histograms as graphics and writing arrays as image files.