

# CENG466, Fall 2022, THE 3

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*Abstract—*

*Index Terms—*

## I. 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.