

Disclaimer:

This MATLAB code is experimental and for non-commercial use only. No warranty is provided or implied.

Purpose:

For reproducing the results for Yaroslavsky and bilateral filters, which includes CSM pdf generation, EM+ fitting, and image filtering.

File description:

ori_color_images/*.png: Twelve standard color images

utility/*.m : Basic tools

utility_csm/*.m : Tools for CSM fitting and bilateral filtering

test_default_configuration.m: Top simulation Matlab code

yaro_bf_recursive_filtering.m: Main function for recursive fitting and filtering

yaro_bf_recursive_filtering/: Output data directory (to be generated)

Usage:

The default configuration of the recursive scheme can be performed by running test_default_configuration.m using MATLAB.

Related papers:

- [1] C.-T. Huang, "Bayesian Inference for Neighborhood Filters with Application in Denoising," *IEEE Trans. Image Processing*, accepted.
- [2] C.-T. Huang, "Bayesian Inference for Neighborhood Filters with Application in Denoising," *IEEE CVPR*, 2015.

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We thank you for your interest in this work.

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