



RESEARCH ARTICLE

Anisotropic Morphological and LLSURE Based Edge Preserving Image Filtering

Ms. Jibi K George

*Department of Computer Science and Engineering
University of Calicut, Kerala, India*

jibikgeorge@gmail.com

Abstract— This paper gives a new filtering technique for high quality edge preserving image filtering. Filtering is perhaps the most important operation of image processing and computer vision, and it is used extensively in a wide range of applications, including image smoothing and sharpening, noise removal, resolution enhancement and reduction, feature extraction, and edge detection. The anisotropic morphological filter is based on the shape and orientation of structuring element at each pixel. The Anisotropic Morphological filters are employed on binary and gray-level images for improvement of anisotropic features such as coherent, flow-like arrangements. This paper also presents a review on various filtering techniques emerged recently. The survey is represented in tabular form for quick reference.

Key Terms: - Edge preserving image filtering; Stein's unbiased risk estimate (SURE); Anisotropic morphological filter; Diagonal normalized steepest descent; Noise level function

Full Text: <http://www.ijcsmc.com/docs/papers/July2013/V2I7201382.pdf>