

VIRTUAL RESTORATION OF OLD DIGITAL PAINTINGS

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ABSTRACT

A painting which was handled roughly or made from low quality paint or base are usually suffers from crack in a long run, which causes them to lose some of the information. So there is a requirement of restoration. In restoration, there are three steps involved crack detection-crack classification and filling or interpolation. In order to do the same top hat transform was applied to detect the cracks, and then supervised and unsupervised classification was done for crack classification. And lastly several statistical filters were applied to fill the cracks.

KEYWORDS: Crack Detection, Top-Hat Transform, Median Filter, Trimmed Filter, Back Propagation Neural Network, Fuzzy C Means Algorithm