A Novel Halftoning Technique;

trade-off in all halftoning processes is between achieving gray scale rendition and also maintaining edge and generally

Thus for a B-bit image $f(i,j)$, the blue noise mask array $m(i,j)$ is a B-bit array such that, when thresholded against $f(i,j)$, up to 2^B levels of varying distribution of black and white dots can be represented on a rectangular grid. The binary pattern

2.2 Blue Noise

The dot profiles for every level are designed to be locally aperiodic and isotropic binary patterns with small low frequency components, which in the halftoning literature are

contain a zero and have an error higher than the defined limit:

method.

method.

halftoning is achieved by a simple pixelwise comparison

algorithms such as error diffusion.