Abstract

The challenging task of image processing is to reduce noise in image, which helps to improve
the image for further process. This paper proposed bilateral filter, the best choice for removing
noise as well as preserving edges in cancer cell image. To show the ability of bilateral filter for
removing noise, another famous edge preserving filter called anisotropic filter and a popular
multi-scale resolution analysis method called curvelet were tested on breast cancer microscopy
images. Experimental result shows that bilateral filter is superior among the tested algorithms in
terms of removing noise as well as preserving edges.

References

  34-38
  Bombay, India
Comparisons of Filters for Noise Removal of Cancer Cell Scanning Electron Microscopy Images


Index Terms

Computer Science  Image Processing
Keywords
Bilateral  anisotropic  poisson  Gaussian  noise-removal  curvelet transform