

Response to Reviewer 2 Comments

Point 1: #NSST (Non-subsampled shearlet wave transform) --> Non-subsampled shearlet wave transform(NSST)

Response 1: See line 14 for modification results.

Point 2: #Clearly write motivation, contribution and novelty in the Introduction section.

Response 2: Motivation, contribution and novelty have been clearly written in the Introduction.

Point 3: #Add manuscript organization at the end of the Introduction section.

Response 3: The manuscript organization has been added at the end of the introduction. See lines 86-93.

Point 4: #Add a separate related work section and highlight the research gap.

Response 4: A separate related work section has been added. See Section 2

Point 5: #Authors must go through the work like Light microscopy image de-noising using optimized LPA-ICI filter. Neural Computing and Applications, Finding contours of hippocampus brain cell using microscopic image analysis. Journal of Advanced Microscopy Research.

Response 5: By consulting the relevant literature, some methods of denoising are introduced to improve the relevant work. See reference [8] in line 122 and reference [15] in line 157.

Point 6: # Write the motivation of using NSST.

Response 6: In Section 3, Part 1, we improve the motivation of using NSST algorithm and introduce the advantages of NSST algorithm. See lines 180-200.

Point 7: #Add a discussion section. Discuss about Nonparametric de - noising filter optimization using structure - based microscopic image classification. Microscopy research and technique, Digital analysis of microscopic images in medicine. Journal of Advanced Microscopy Research , limitations scope etc.

Response 7: By consulting the relevant literature, some methods of denoising are introduced to improve the relevant work. See reference [14] in line 151. The microscope technology is introduced in the introduction. See reference [1] in line 43.

Point 8: #There are many references where there is an issue of capitalization.

Response 8: Reunified the format of references.

Point 9: #Provide DOI for all ref. or not any one.

Response 9: DOI deleted from references.

Point 10: #Report the time complexity.

Response 10: We think that time-consuming is an indicator of the quality of an algorithm, so we add the time-consuming of each algorithm to the tables, see Table 2 and Table 3. However, since this study aims to find an algorithm with good noise immunity and sensitivity, the impact of time consumption is ignored in this study.