Dear Reviewer,

Thank you for allowing a resubmission of our manuscript, with an opportunity to address the your comments.
We are uploading (a) our point-by-point response to the comments (below) (response to reviewers), (b) an updated manuscript with highlighting indicating changes.

Best regards,

Wenling Yu, Bo Liu, Hua Liu

1. Abstract needs to be rewritten to provide highlights of the Proposed method.

Thanks for your comment.

We have rewritten the abstract, the revised version is as follows：In view of the problems that accurately identifying building shape features and the confusion between building features and non-building features when extracting buildings from remote sensing images by using deep learning, we proposed a building extraction method from remote sensing images based on U-Net which conclude recurrent residual deformable convolution module(RDCU) and augmented multi-head self-attention (AMSA). The proposed method re-places conventional convolution modules with recurrent residual deformable convolution mod-ules to better capture building shape characteristics. In addition, the attention mechanism mod-ule introduced in the skip connections can make full use of contextual information between fea-tures to enhance building feature expression and reduce confusion between buildings and non-buildings. For the Massachusetts dataset, the proposed method achieves an Intersection over Union (IoU) score of 89.99%, PA(Pixel Accuracy) score of 93.62% and Recall score of 89.22%. For the WHU Satellite dataset I, the proposed method achieves an IoU score of 86.47%, PA score of 92.45% and Recall score of 91.62%, For the INRIA dataset, the proposed method achieves an IoU score of 80.47%, PA score of 90.15% and Recall score of 85.42%.

2. The contributions are to be given more specifically

Thanks for your comment.

In the revised revision, the contributions section has been written in accordance with the journal's guidelines and the actual work distribution among the authors.

3. In the experimental analysis, if possible, include the model performance with respect to different batch sizes.

Thanks for your comment.

Due to limitations in experimental equipment and time constraints, we were unable to conduct further large-scale experimental operations. In the future, we will discuss and investigate the model's performance under different batch sizes.

4. Recheck the repetition of words in certain locations (Ex: line 322). Check for the manuscript.

Thanks for your comment.

In the revised revision, we have modified line 322 of the original text, the revised sentence is as follows:Note: "N/A: Not Applicable".