We sincerely thank all three reviewers for their valuable comments, with the following being our responses.

**R1&R2) Regarding the contextual representation.** We proposed one novel gated fusion strategy to mutually absorb useful and meaningful information of each point and its neighboring points to enrich its semantic representation. As in Eq. (2), $g_i$ and $g_j$ are determined by the representations of the each point and its neighboring ones. As such, although the weights in Eq. (2) are learned to be `static`, the enriched representation is adaptively determined by the point itself and its neighboring ones. Moreover, compared with the simple concatenation, the proposed gated fusion can effectively enrich the point representation yielding better performances, as illustrated in Table 4 (the submitted paper).

**R1&R2) Regarding the model complexity.** Table 1 (response letter) illustrates the model complexity comparisons. The sample sizes for all the models are fixed as 4096. It can be observed that the inference time of our model (28ms) is less than the other models, except for PointNet (5.3ms) and PointNet++ (24ms). And the model size seems to be identical with other models except PointCNN, which yields the largest model.

**R1) Regarding the advance of the proposed model.** Table 4 (the submitted paper) ablates the contribution of each component, namely CR, AM, and GPM. We further incorporate the proposed CR, AM, and GPM together with DGCNN for point cloud semantic segmentation, with the performances illustrated in Table 2 (response letter). It can be observed that CR, AM, and GPM can help improving the performances, demonstrating the corresponding superiority. We will include such experiments in our revised paper.

**R1) Regarding missing related work.** Thanks for your suggestion. We will include the papers accordingly in our revised paper.

**R2) Regarding the effects of the order-specific weights:** Please note that the $k$ neighboring points as in Eq. (1) are randomly sampled within the point neighborhood. We are sorry for not providing clearer information in our manuscript. In order to examine the effects of the order-specific weights, we random shuffle the weights of the $k$ neighboring points in our CR module during the inference. The results with multiple inferences appear to be almost the same (88.43%±0.02%). Thus, the repositioning or reordering does not affect the corresponding performances.

**R2) Regarding the general limitations (KNN):** We agree that KNN encoding step as one general limitation makes it impossible for gradient propagation. We are considering to use self-attention to aggregate the features within the point neighborhood, which can thereby make the model suitable for other tasks besides the discriminative ones.

**R2) Rengaging the performance on the classification task.** We evaluate our model on the ModelNet40 shape classification benchmark, shown in Table 5 (response letter). As usual, we uniformly sample 1024 points on mesh faces according to the face area and normalize them into a unit sphere. Only the coordinates of the sampled points are used, with the original meshes discarded. The results in Table 5 (response letter) clearly demonstrate the generalization ability of our proposed model, which achieves comparable performances with state-of-the-art models on classification task.

**R2) Regarding robustness under noise in the data.** We demonstrate the robustness of our proposed model with respect to PointNet++. As for scaling, when the scaling ratio are 50%, the OA of our proposed model and PointNet++ on segmentation task decreases by 3.0% and 4.5%, respectively. As for rotation, when the rotation angle is $\pi/5$, the OA of our proposed model and PointNet++ on segmentation task decreases by 1.7% and 1.0%, respectively. As such, our model is more robust to scaling while less robust to rotation. We will include such discussions in our revised version.

**R3) Regarding spatial/channel-wise attentions with each GPM.** The performance of different GPM settings are summarized in Table 4 (response letter). The default GPM setting with spatial-wise attention achieves the best performance, where the channel-wise attention appears to decrease the performance.

**R3) Regarding the number of GPMs.** As shown in Table 4 (response letter), when stacking 3 GPMs, our proposed model achieves the best performance. Introducing more GPMs will increase the model capacity, resulting in performance improvement from 2 GPMs to 3 GPMs. Afterwards, with more GPMs stacked, more parameters are introduced, which cannot ensure an adequate training with limited data, resulting the performance degradation.

**R3) Regarding performances of different categories.** The CR module performs well on the categories with context dependency, e.g., the category “column” always appears with “wall”. Without CR module, the OA decreases by 24%. Both CR and GPM module are sensitive to local complicated structure information, e.g., the OA on category “sofa” increases by 26% and 19%, respectively. The AM aggregates global information and improve the performance of category with large area, e.g., the OA on category “window” increases by 3%.

**R3) Regarding more qualitative results:** Thank you very much for the comment. We will include more qualitative results in our revised paper.