

Supplementary Note on Loss Function Correction

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During a recent review of our manuscript [1] titled *Instance Specific Discriminative Modal Pursuit: A Serialized Approach*, we noticed a typographical error in the definition of the classification loss term in Equation. (2). The paper originally presents the classification loss as:

$$\tilde{\ell}(f(\hat{\mathbf{h}}_i(s^t)), y_i) = y_i \log g(f(\hat{\mathbf{h}}_i(s^t))). \quad (1)$$

However, the correct formulation should be the standard negative log-likelihood (cross-entropy) objective:

$$\tilde{\ell}(f(\hat{\mathbf{h}}_i(s^t)), y_i) = -y_i \log g(f(\hat{\mathbf{h}}_i(s^t))). \quad (2)$$

The missing negative sign was introduced during manuscript preparation and only affects the written presentation of the equation.

All experiments reported in the paper were conducted using the correct implementation of the cross-entropy loss with the negative sign included. Therefore, this correction does not affect:

- the optimization procedure,
- the implementation details,
- the reported experimental results,
- or the conclusions of the paper.

References

- [1] Y. Yang, D. Zhan, Y. Fan, and Y. Jiang, “Instance specific discriminative modal pursuit: A serialized approach,” in *Proceedings of The 9th Asian Conference on Machine Learning*, ser. Proceedings of Machine Learning Research. PMLR, 2017, pp. 65–80.