Review of: "Interpreting the loss functions of Artificial neural networks in cancer research"

Hyunseok Seo

Potential competing interests: No potential competing interests to declare.

Information of the loss functions from this article is quite limited. MSE and RMSE are not that different from each other. The author could introduce other loss functions that are more frequently used in many related applications, such as the dice loss function in segmentation or L1 loss rather than L2 (MSE). Then, you could discuss what the difference of L1 and L2 in optimization process is. Adversarial loss for GAN might be another interesting sub-topic. Basically, high-dimensional information from training dataset is projected into a scalar value by the loss function. So you can refer the relevant paper [1] and discuss about this issue in your article. Please provide more in-depth in this field.

[1] "Closing the gap between deep neural network modeling and biomedical decision-making metrics in segmentation via adaptive loss functions." *IEEE transactions on medical imaging* 40.2 (2020): 585-593.