

## Errata

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Thesis title: Applicability and Robustness of Deep Learning in Healthcare

**Page 8**, second paragraph, values corrected according to references below:

“intensity values ranging from -1000 to 3096” should read

“intensity values ranging from -1024 to 3071”. \*)

”bones in the range 300-1000” should read

”bones in the range 300-1900” \*\*)

”metal implants having values  $\geq 3000$ ” should read

”metal implants having values  $\geq 3071$ ” \*)

### References

\* C. Glide-Hurst, D. Chen, H. Zhong, and I. Chetty, “Changes realized from extended bit-depth and metal artifact reduction in CT,” *Medical physics*, vol. 40, no. 6Part1, p. 061711, 2013.

\*\* S. Patrick, N. P. Birur, K. Gurushanth, A. S. Raghavan, and S. Gurudath, “Comparison of gray values of cone-beam computed tomography with hounsfield units of multislice computed tomography: An: In vitro: Study,” *Indian Journal of Dental Research*, vol. 28, no. 1, pp. 66–70, 2017.

**Page 15**, Equation 2.14, missing notation:

$\mathcal{L}_{\text{NLL}}(\hat{\mathbf{y}}, \mathbf{y}) = - \sum_{i=1}^N \log \hat{y}_i^{y_i} \log(1 - \hat{y}_i)^{1-y_i}$  should read

$\mathcal{L}_{\text{NLL}}(\hat{\mathbf{y}}, \mathbf{y}) = - \sum_{i=1}^N (\log \hat{y}_i^{y_i} + \log(1 - \hat{y}_i)^{1-y_i})$

**Page 58**, first paragraph, missing in-text citation:

“the accuracy of segmentation quality based on uncertainty-based prediction” should read

“the accuracy of segmentation quality based on uncertainty-based prediction [145]”

**Page 63**, first paragraph, incorrect references to publications (original → corrected):

”risk of subjective annotation bias in Publication I → II and Publication IV due to single annotator validation but former was amended in the follow-up analysis in Publication IV → III.”