

Errata for the thesis

Unequal Probability Sampling in Active Learning and Traffic Safety

by Henrik Imberg*

Department of Mathematical Sciences,
Chalmers University of Technology and University of Gothenburg,
SE-412 96 Gothenburg, Sweden.

Last updated December 3, 2020

1. Page 5, line 1 from below. The loss function is twice differentiable with respect to the parameter θ .
2. Page 12, line 8 from below. With multinomial sampling, the expression for the variance should be $\text{Var}(\mathbf{a}_k^T \hat{\theta}_\pi - \mathbf{a}_k^T \theta_0) = \frac{1}{n} \sum_{i \in \mathcal{D}} \frac{c_i}{\pi_i} + k + o(n^{-1})$.
3. Page 18, line 1 and 3 from below. $\pi_s(i) \propto c_i$ should be $\pi_s(i) \propto \sqrt{c_i}$
4. Page 26, line 2, and Page 27, line 2 in **Conclusions**. "variance of the total loss" should be "expectation of the total loss". The corresponding result in Proposition 2 of Paper I has been re-worded and the proof has been clarified in the final version of the paper available at <http://proceedings.mlr.press/v108/imberg20a.html>.
5. Page 27, Figure 4.1 and succeeding discussion in **Conclusions** section. There is an error in the implementation of deterministic uncertainty sampling. Corrected results and updated discussion may be found in the final version of Paper I available at <http://proceedings.mlr.press/v108/imberg20a.html>.

*Author e-mail: imbergh@chalmers.se.