

# Correction to Optimal sampling in unbiased active learning

by

Henrik Imberg

Johan Jonasson

Marina Axelson-Fisk

December 17, 2020

I would like to report an erratum to the paper 'Optimal sampling in unbiased active learning' by Imberg, Jonasson and Axelson-Fisk, presented at the 23<sup>rd</sup> International Conference on Artificial Intelligence and Statistics (AISTATS) 2020 and published in *Proceedings of Machine Learning Research*, vol. 108, pp. 559-569, 2020. The sampling weights on line 5 of Algorithm 1 on page 3 should be

$$w_{t,i} = w_{t-1,i} + \frac{1}{t} \left( \frac{Q_{t,i}}{\pi_{t,i}} - w_{t-1,i} \right), \quad i \in \mathcal{P},$$

as also written in the main text (last equation on page 2). The query indicators  $Q_{t,i}$  were missing in the algorithm, and the update did not explicitly account for non-sampled elements. This error was solely typographical had no effect on the theoretical and empirical results of the paper.

Henrik Imberg,  
Department of Mathematical Sciences,  
Chalmers University of Technology  
and University of Gothenburg,  
SE-412 96 Gothenburg, Sweden.  
E-mail: [imbergh@chalmers.se](mailto:imbergh@chalmers.se).