

Errata

The proceeding version of this paper contains an error in Section 4.2, the paragraph regarding *Auxiliary Variables (a)* should end with “we must have $a_{i_2} - a_{i_1} = 1$ ”, not “ $a_{i_2} - a_{i_1} = 0$ ”. The correct description is:

We use a_{i_1} and a_{i_2} variables to encode the neighborhood range for the small neighborhood property, defined in Equation (8). For each predicate $x_j < \eta_i$, we create a_{i_1} variable for $x_j < \eta_i - \sigma_j * \epsilon$, and a_{i_2} variable for $x_j < \eta_i + \sigma_j * \epsilon$. If x_j is within $[\eta_i - \sigma_j * \epsilon, \eta_i + \sigma_j * \epsilon]$, we must have $a_{i_2} - a_{i_1} = 1$.

The error had no impact on the claims or experimental results of the paper, because we correctly implemented ^{1 2} this as “ $a_{i_2} - a_{i_1} = 1$ ”.

¹https://github.com/surrealzy/verified-global-properties/blob/main/attack_ilp.py#L311-L327. Here, var1 is a_{i_1} , var2 is a_{i_2} , x and x' share the same var1 and var2.

²https://github.com/surrealzy/verified-global-properties/blob/main/attack_ilp.py#L419-L428. We use bvar to encode each $a_{i_1} - a_{i_1}$. Thus, we enforce that one of the bvar in range.vars is 1.