1. In the proofs of Proposition $5 \& 6$ (the NP-hardness and PSPACE-hardness, only appear in the appendix of the arXiv version): Not an error, but I noticed that the construction to "single out" one specific part of the union

$$
\bigcup_{i=1}^{n} U_{1}^{(i)} ш \ldots ш U_{k}^{(i)}
$$

can be simplified (in fact, I think the way I do it in the paper is too complicated). More specifically, as the vectors in $N$ (see the proof for the notation and assumptions) are incomparable, if we want to use

$$
U_{1}^{\left(i_{0}\right)} \text { ш } \ldots \text { ш } U_{k}^{\left(i_{0}\right)}
$$

in the reduction, with the corresponding vector $\left(n_{1}^{\left(i_{0}\right)}, \ldots, n_{k}^{\left(i_{0}\right)}\right) \in N$, it is sufficient to add, for each $a_{j} \in \Sigma(j \in\{1,2, \ldots, k\})$, a path labeled by $a_{j}^{n_{i}^{\left(i_{0}\right)}}$ if $n_{i}^{\left(i_{0}\right)} \neq \infty$ and labeled by $a_{j}^{K_{j}}$ with $K_{j}=\max \left\{n_{j}^{(i)} \mid i \in\{1, \ldots, n\}, n_{j}^{(i)} \neq\right.$ $\infty\}+1$ (with $\max \varnothing=0$ ) that ends at the state $t$ (instead of the paths labelled with the $a_{\lambda(i)}^{m(i)}$ as in the paper).
Then, for a word $w \in \Sigma^{*}$ with $|w|_{a_{j}} \geqslant K_{j}$ if $n_{j}^{\left(i_{0}\right)}=\infty$ and $|w|_{a_{j}}=n_{j}^{\left(i_{0}\right)}$ otherwise, we have

$$
w \in L \Leftrightarrow w \in U_{1}^{\left(i_{0}\right)} ш \ldots ш U_{k}^{\left(i_{0}\right)}
$$

Then, the set of paths $P$ can be constructed as outlined above, without the need to define the mappings $\lambda$ and $m$ as in the paper.

