$$af_{g,tf} = \sum_{\mathbf{r} \in R_g} \frac{af_{r,tf}}{ml_{tf}} \cdot scaler \quad \begin{cases} af_{g,tf} \text{: affinity score of TF } \textit{tf to } g \\ R_g \text{: set of regions mapped to } g \\ af_{r,tf} \text{: affinity of } \textit{tf in } r \\ ml_{tf} \text{: motif length of } \textit{tf} \end{cases}$$