

$$af_{g,tf} = \sum_{r \in R_g} \frac{af_{r,tf}}{ml_{tf}} \cdot A_r \cdot e^{-\frac{d_{r,g}}{d_0}}$$

$af_{g,tf}$: affinity score of TF tf to g

R_g : set of regions mapped to g

$af_{r,tf}$: affinity of tf in r

ml_{tf} : motif length of tf

A_r : activity of r

$d_{r,g}$: distance of r to g

d_0 : distance constant of 5000 bp