$$G\_\sigma(s\_ik) = \sum_j l_j exp\left(-\frac{dist(b_i, b_j)}{2\sigma^2}\right)(s_j)^k$$

where

$l_j \in \mathbb{R}$ the length of bj

$dist \in \mathbb{R}^n, \mathbb{R}^n \to \mathbb{R}$ measures the geodesic distance between the centers of bi and bj along the boundary

$\sigma \in \mathbb{R}$

$b_i \in \mathbb{R}^n$

$b_j \in \mathbb{R}^n$

$s_j \in \mathbb{R}$ unit direction vector of bi

$k \in \mathbb{R}$ iteration number