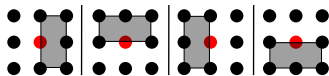


Kernels for Curvature Filter



Following kernels correspond to the most left case in above figure.

Filter	Prior Surface	Regularization	One Kernel
GC	Developable	$\int \kappa_1 \kappa_2 d\vec{x}$	$\begin{matrix} 0 & \frac{1}{2} & 0 \\ 0 & -1 & 0 \\ 0 & \frac{1}{2} & 0 \end{matrix}$
MC	Minimal Surface	$\int \kappa_1 + \kappa_2 d\vec{x}$	$\begin{matrix} 0 & \frac{5}{16} & \frac{-1}{8} \\ 0 & -1 & \frac{5}{8} \\ 0 & \frac{5}{16} & \frac{-1}{8} \end{matrix}$
Bernstein	Minimal Surface	$\int \kappa_1 + \kappa_2 d\vec{x}$	$\begin{matrix} 0 & \frac{1}{2} & 0 \\ 0 & -1 & 0 \\ 0 & \frac{1}{2} & 0 \end{matrix}$
TV	piece wise constant	$\int \nabla U d\vec{x}$	$\begin{matrix} 0 & \frac{1}{5} & \frac{1}{5} \\ 0 & -1 & \frac{1}{5} \\ 0 & \frac{1}{5} & \frac{1}{5} \end{matrix}$