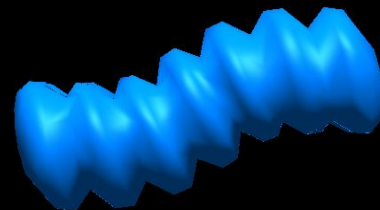
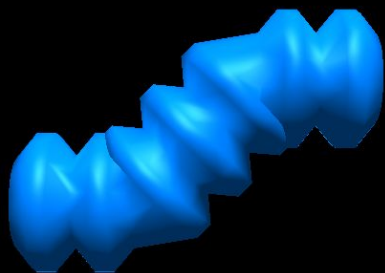


Delta Mush



Why is Delta Mush useful?

Natural looking animations

smooths arbitrary deformation of a mesh while maintaining the original detail of the model

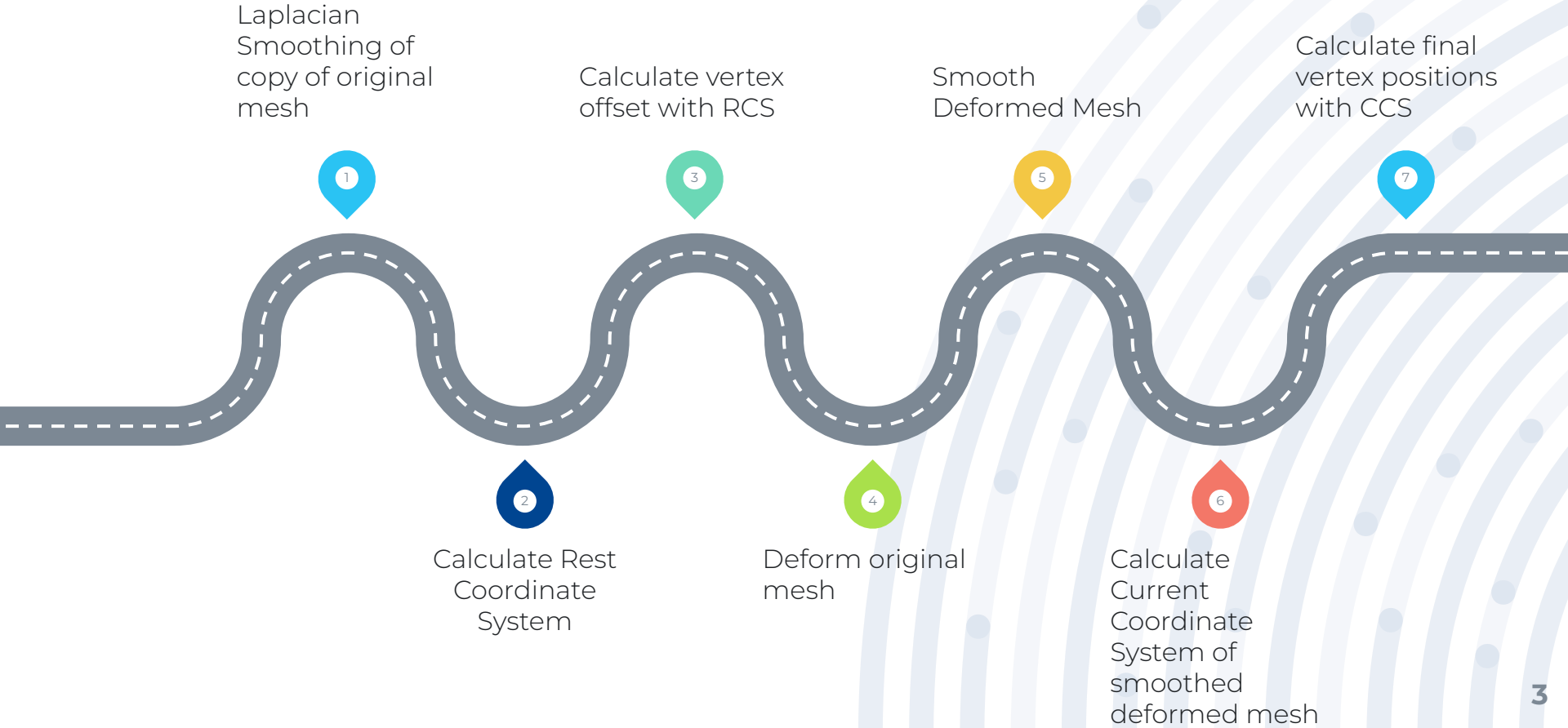
Time Saver

simple, fast, flexible; unlike manual editing alternatives

For those interested in reading the full paper:

<https://dl-acm-org.emedien.ub.uni-muenchen.de/doi/pdf/10.1145/2633374.2633376>

Overview of Core Algorithm



1.

Laplacian Smoothing

2.

Local Rest Coordinate System

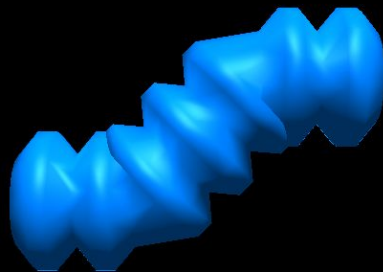
$$R_i = [t_i \ n_i \ b_i \ s_i]$$

3.

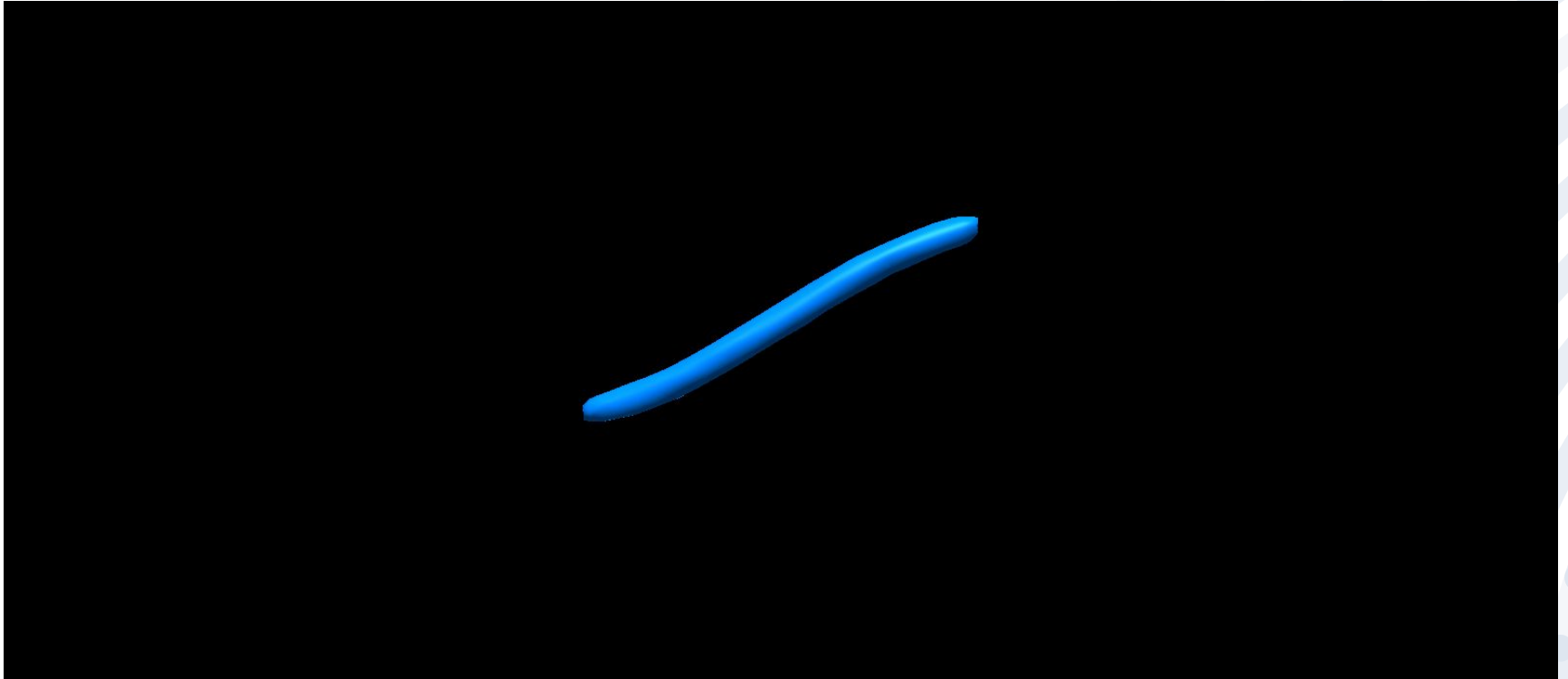
Vertex Offset

$$v_i = R_i^{-1} p^i$$

4. Deform original mesh



5. Smooth deformed mesh



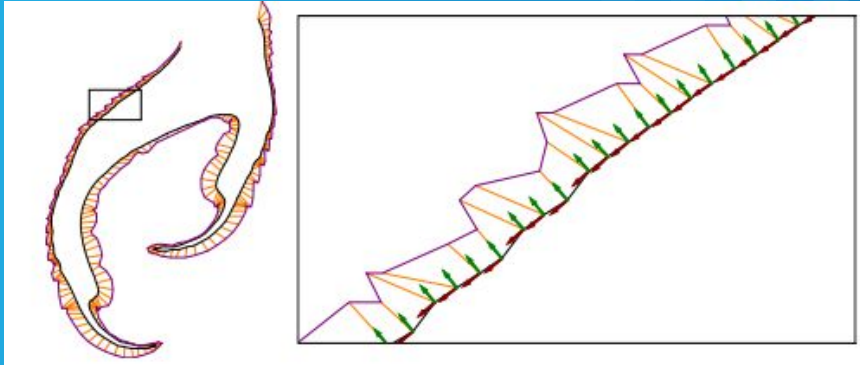
6.

Local Current Coordinate System

$$C_i = [t'_i \ n'_i \ b'_i \ s'_i]$$

7. Key Idea

$$d_i = C_i v_i$$



7. Apply delta

