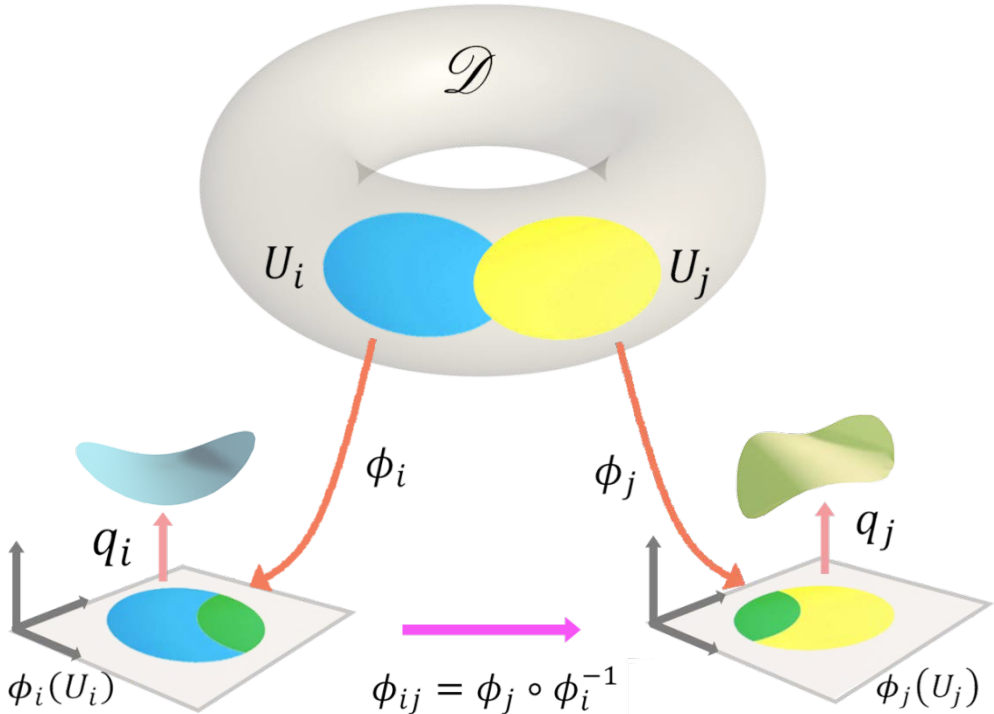
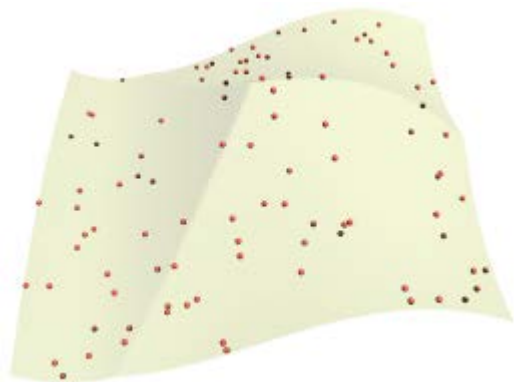


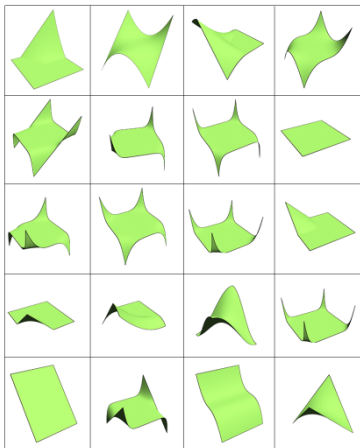
# Construction of Manifold Surfaces



# Sparse Local Fitting with Redundant Basis Functions

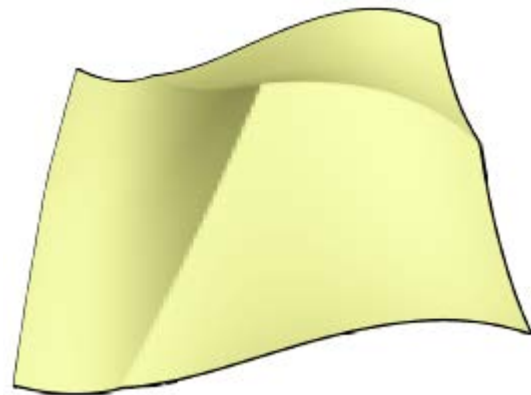


Input Point Cloud



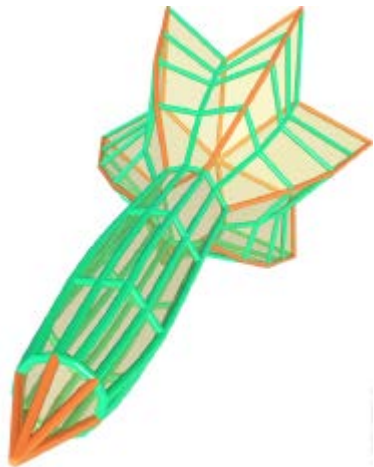
**Dictionary**

- Polynomials
- $C^0$  shape functions

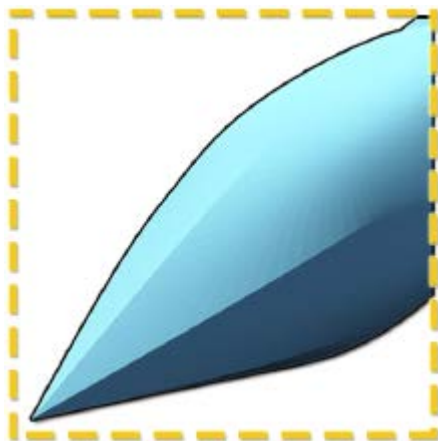
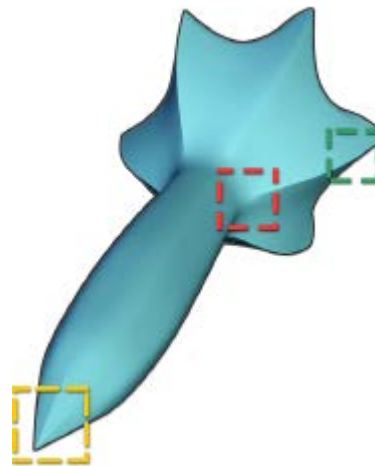


Fitted Surface with Feature

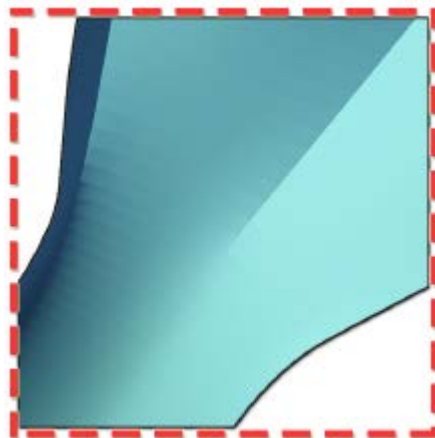
Domain



Constructed Manifold



Cusp



Dart



Crease

# Construction of Manifolds with Sharp Features

