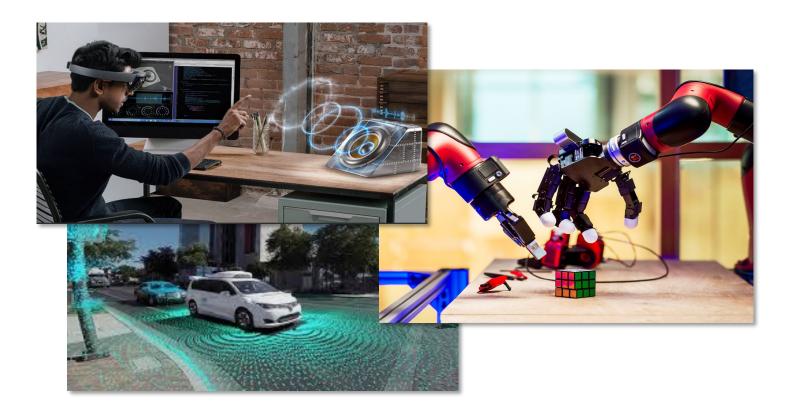


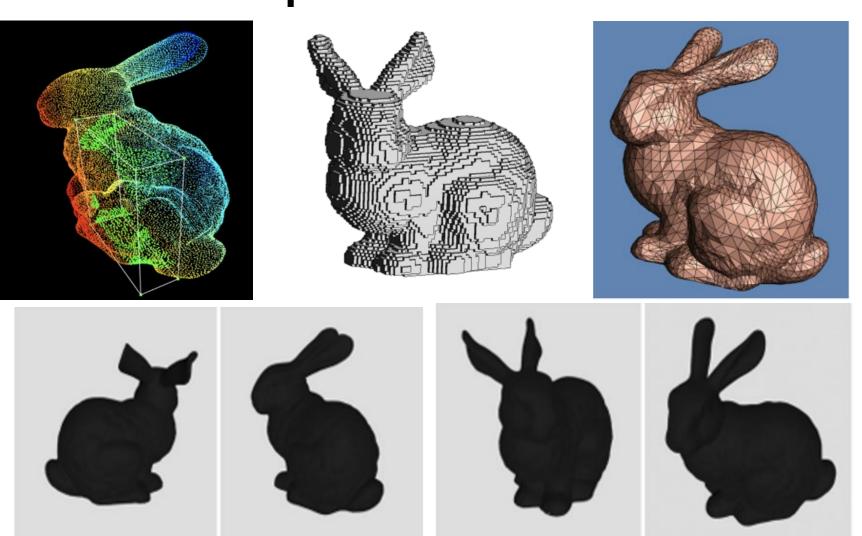
Object Reconstruction with Surfaces

Reconstructing 3D object shape from one or more views is an important problem.

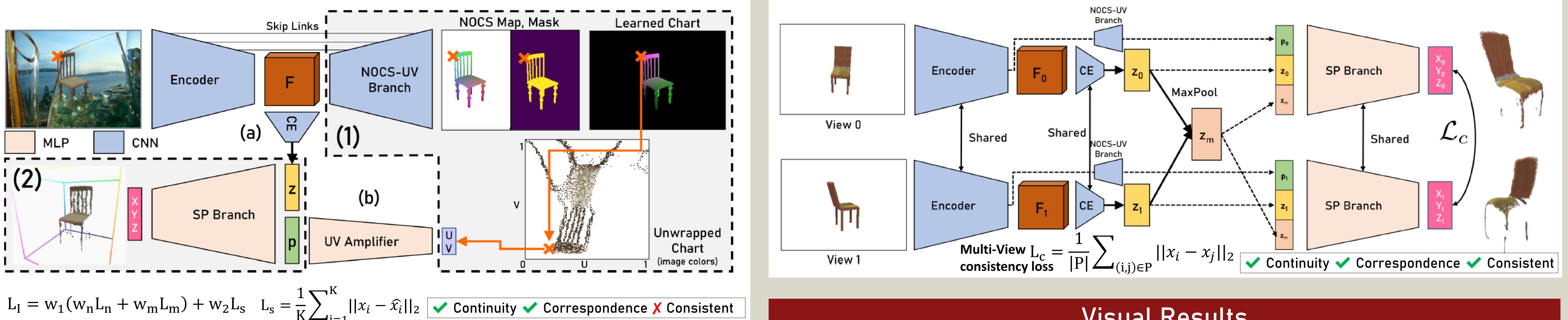
Applications



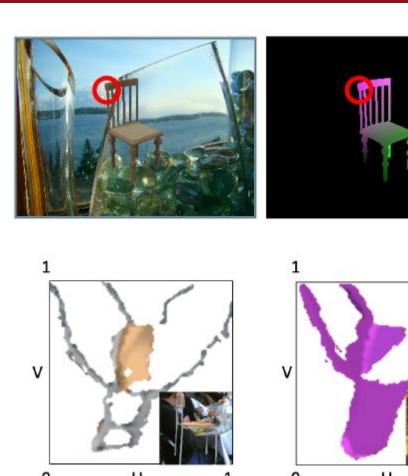
Parametric Continuous Surface has several advantages over voxel, point cloud or mesh.

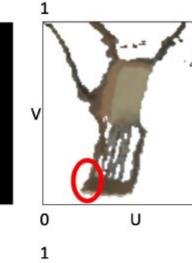


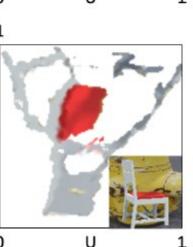
Single View Single Chart Pix2Surf



Emergence of unsupervised Learned Chart









Without any direct supervision, Pix2Surf automatically discovers a relative consistent parameterization of the surface across different views and different instances in one training. This unwrapped learned UV space can directly serve as Texture Map

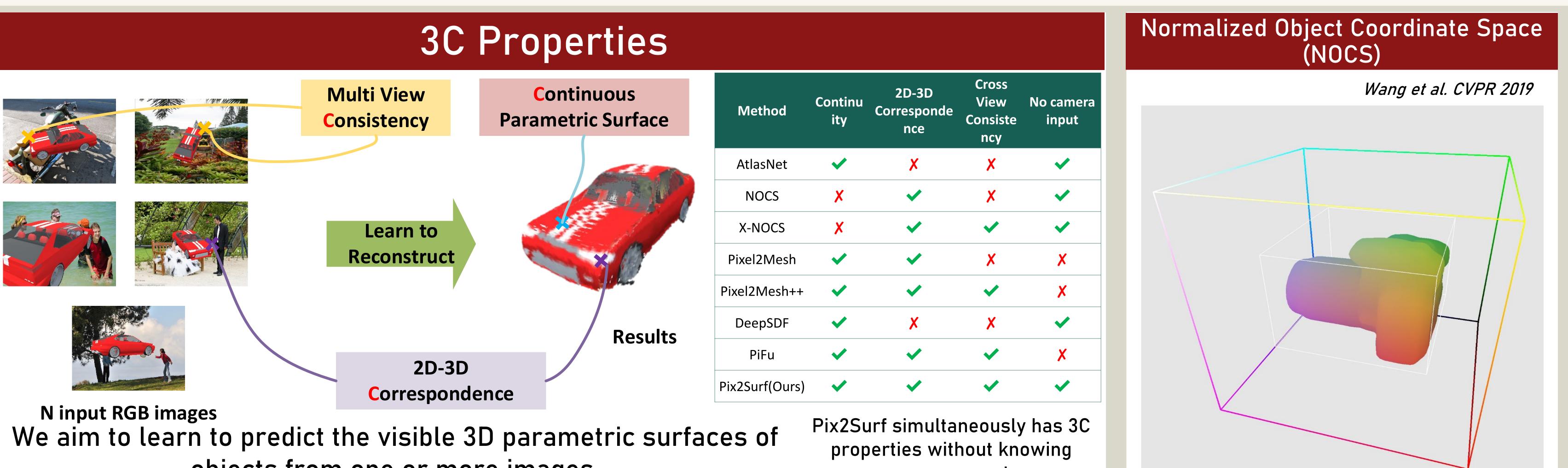
Pix2Surf: Learning Parametric 3D Surface Models of Objects from Images

Srinath Sridhar¹ ¹Stanford University

Paul Guerrero³ ² Zhejiang University

³ Adobe

Representations



objects from one or more images.

Minhyuk Sung³

Niloy Mitra⁴

⁴University College London

camera parameters

Multi-View Atlas Pix2Surf

Visual Results





Single View Naïve Aggregation Multi-View Consistent Aggregation

Leonidas Guibas¹







More Results from MV Atlas Version