CONSTRAINED NOW-RIGID REGISTRATION PIPELINE

Input: 4 files, two directories

·		
	Source	target
2D	< Source>.png	(target).png
3D	<source/> .obj	< farget > . obj

Input -> Set Boundary -> Filter Points -> Registration -> Analysis	2.
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BOUNDARY - SETTING TECHNIQUE:

Deep Neural Network Facial Detection W/ Mediapipe Convex Hull Intersection

Geodesic Perimeter from nosetip

Requires

Alignment Quaternion

Nose detection - maybe also mediapipe?

RETURNS:

A boundary

points & edges between points

Filter

Keep only points inside the boundary - matplotlib. path. Path. contains_point ()

RETURNS:

All the points on or inside the boundary

Non-Rigid Registration ICP / Zhon already did this Harmonic Conformal Map

Returns

A predicted face

Analysis Simple energy function