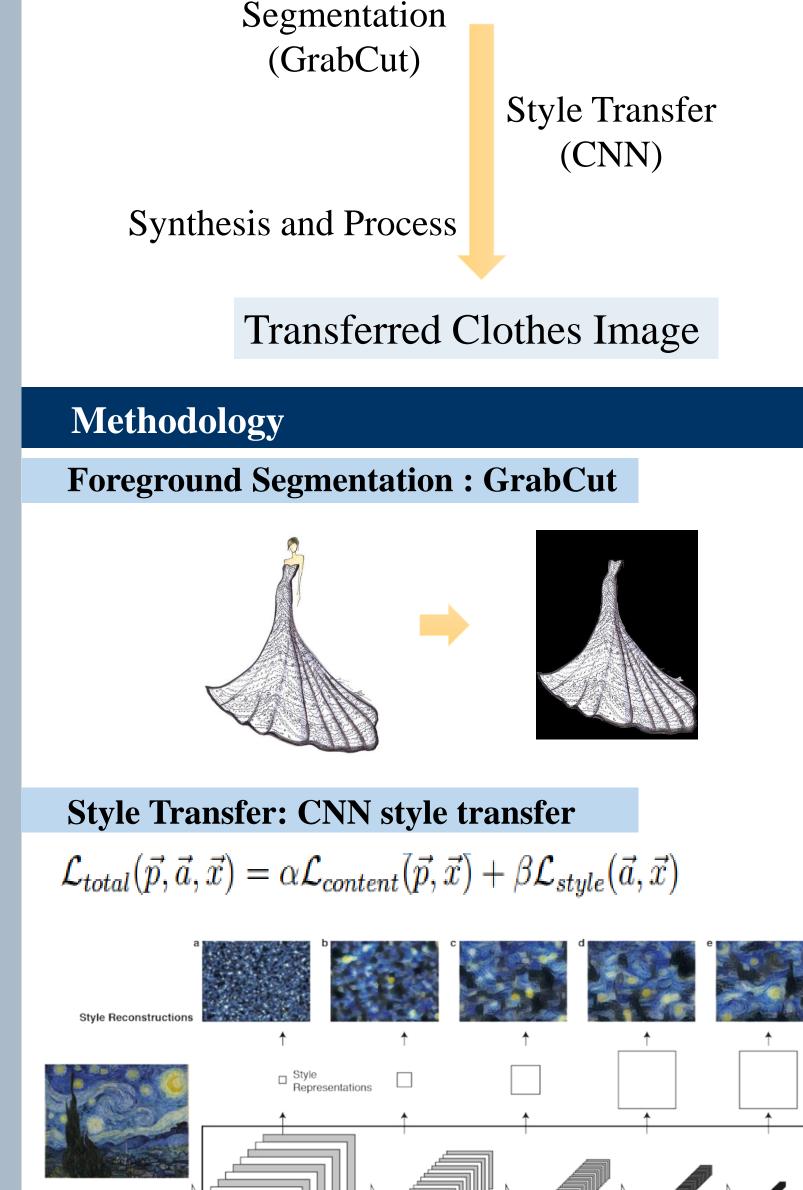
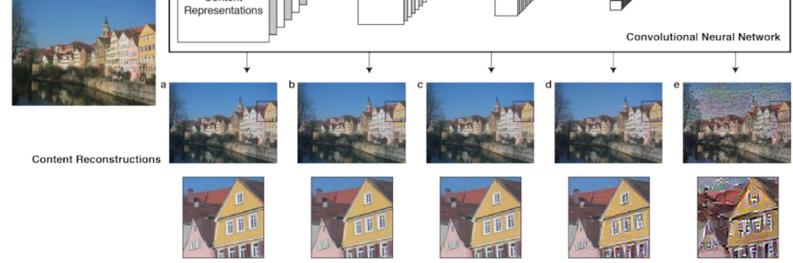


Deep Fashion Design in the Wild

	Supervisor:	Prof. Tang, X	Prof. Tang, Xiaoou		
	Group members:	Wang, Pei	Niu, Haoying	Liu, Litian	
Background	Experiments				
	1. InitializationContent or random image as	initial image			
Clothes Images/Sketches Style Pa	atterns			SA N	
Additional Elements					
Project Overview	Content image (with logo) Style Ir	mage Random In	itialization Cont	ent Initialization	
Clothes Image Additional Element	as 2. Optimizer				
Synthesized Image - Style Ima	nge				
Segmentation					

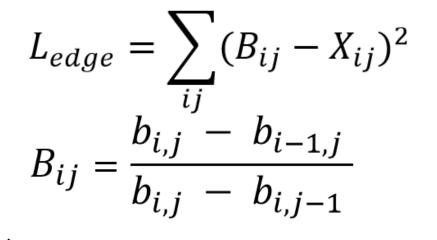






Modified Loss Function

Input image



 \vec{x} : generated image. \vec{b} : original content image.

Bij: direction/tangent of the gradient of \vec{b} at (i, j)

Implication

This project aims at making fashion design accessible for everyone. Girls can add desired fashion elements to their daily photos. Combining with the advance of 3D printing, it has the potential to unleash people's creativity and the pursuit of aesthetics.

References

Gatys, L. A., Ecker, A. S., & Bethge, M. (2015). A neural algorithm of artistic style. *arXiv preprint arXiv:1508.06576*.