

陳煥宗

Hwann-Tzong Chen

Associate Professor

CS, NTHU

Research interests:

Computer vision, pattern recognition, image processing

HorizonNet: Learning Room Layout with 1D Representation and Pano Stretch Data Augmentation

at CVPR 2019

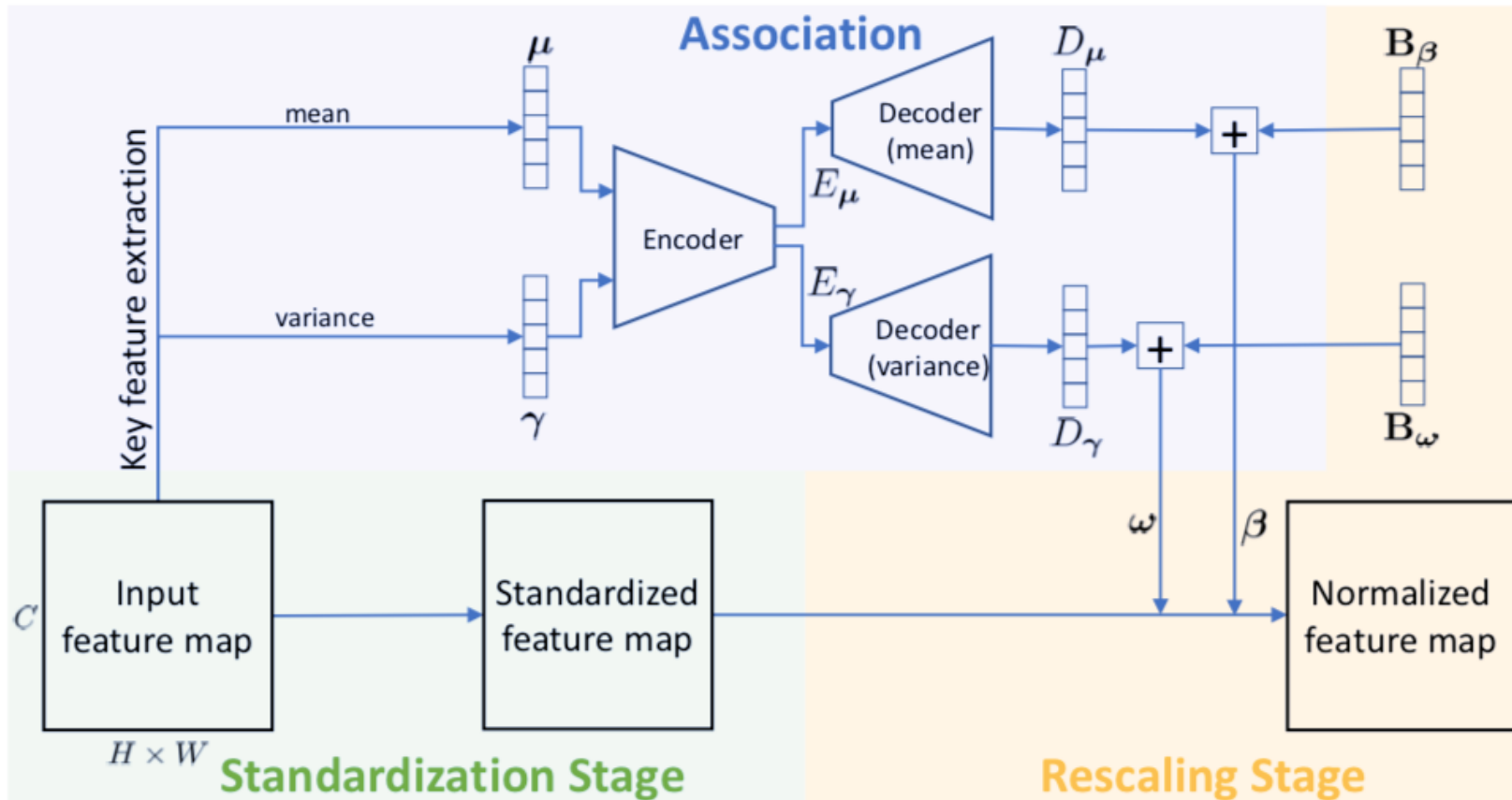


Demo video: https://youtu.be/sSAtY1W_asE?t=2

Instance-Level Meta Normalization

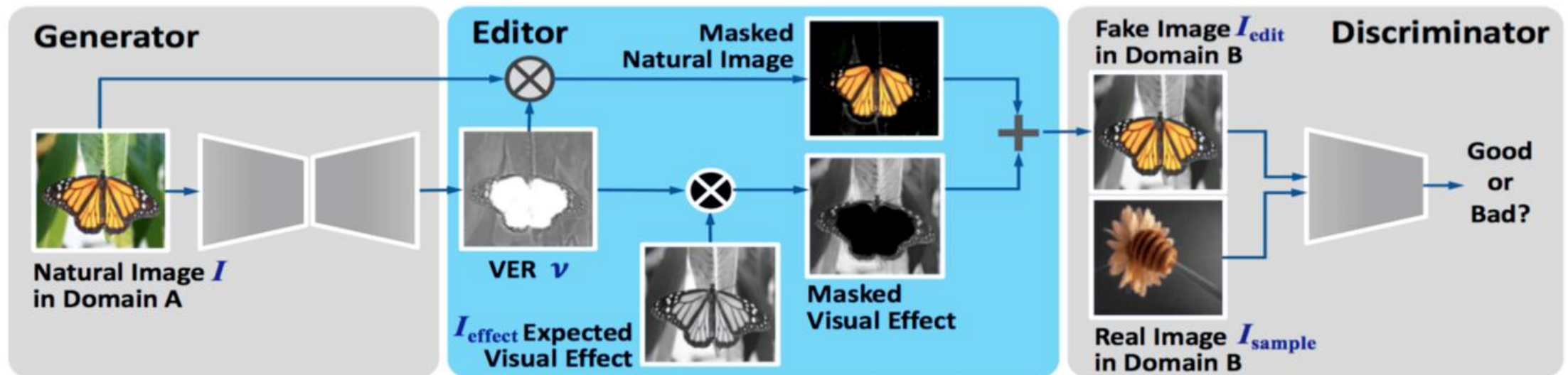
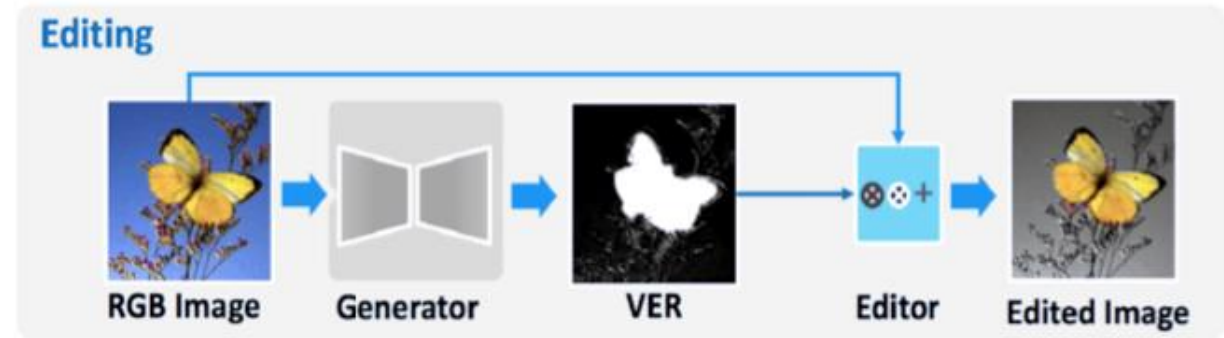
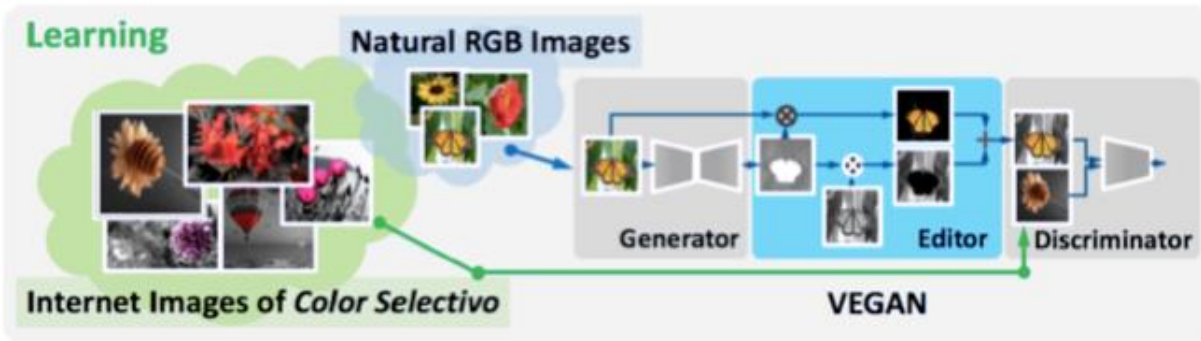
at CVPR 2019

ImageNet	Method (Error Rate %)				
	BN	ILM+GN	GN	IN	LN
Top-1	23.85	23.57	24.06	28.40	25.30
vs. BN	-	-0.28	+0.21	+4.55	+1.45



Unsupervised Meta-learning of Figure-Ground Segmentation via Imitating Visual Effects




at AAI 2019



\otimes Element-wise Multiplication $+$ Addition \otimes Inverse Element-wise Multiplication

A2A: Attention to Attention Reasoning for Movie Question Answering

at ACCV 2018

		
<p>You can see here the Death Star....</p>	<p>the Death Star does have a strong defense mechanism.</p>	<p>The shield must be deactivated...</p>
<p>q: How is the Death Star protected from attack? a₁: By an army of soldiers. a₂: <i>By nuclear weapons.</i> a₃: By an energy shield. a₄: By starfighters. a₅: By Emperor Palpatine's army.</p>		<p>C_q: a Boolean vector indicating the video frames (subtitles) that are relevant to the task of question answering w.r.t q.</p>