TITLE:
 Wide-Context Semantic Image Extrapolation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wang_Wide

 Context_Semantic_Image_Extrapolation_CVPR_2019_paper.html

 AUTHORS:
 Yi Wang, Xin Tao, Xiaoyong Shen, Jiaya Jia

 HIGHLIGHT:
 We propose a semantic regeneration network with several special contributions and use multiple spatial related losses to address these issues.

 TITLE:
 End-To-End Time-Lapse Video Synthesis From a Single Outdoor Image

 http://openaccess.thecvf.com/content_CVPR_2019/html/Nam_End-To-End_Time-Lapse_Video_Synthesis_From_a_Single_Outdoor_Image_CVPR_2019_paper.html

 AUTHORS:
 Seonghyeon Nam, Chongyang Ma, Menglei Chai, William Brendel, Ning Xu, Seon Joo Kim

 HIGHLIGHT:
 In this paper, we present an end-to-end solution to synthesize a time-lapse video from a single outdoor image using deep neural networks.

 TITLE:
 GIF2Video: Color Dequantization and Temporal Interpolation of GIF Images

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wang_GIF2Video_Color_Dequantization_and_Temporal_Interpolation_of_

 GIF_Images_CVPR_2019_paper.html

 AUTHORS:
 Yang Wang, Haibin Huang, Chuan Wang, Tong He, Jue Wang, Minh Hoai

 HIGHLIGHT:
 In this paper, we propose GIF2Video, the first learning-based method for enhancing the visual quality of GIFs in the wild.

TITLE: Mode Seeking Generative Adversarial Networks for Diverse Image Synthesis http://openaccess.thecvf.com/content_CVPR_2019/html/Mao_Mode_Seeking_Generative_Adversarial_Networks_for_Diverse_Image _Synthesis_CVPR_2019_paper.html AUTHORS: Qi Mao, Hsin-Ying Lee, Hung-Yu Tseng, Siwei Ma, Ming-Hsuan Yang

HIGHLIGHT: In this work, we propose a simple yet effective regularization term to address the mode collapse issue for cGANs.

TITLE: Pluralistic Image Completion

 http://openaccess.thecvf.com/content_CVPR_2019/html/Zheng_Pluralistic_Image_Completion_CVPR_2019_paper.html

 AUTHORS:
 Chuanxia Zheng, Tat-Jen Cham, Jianfei Cai

 HIGHLIGHT:
 In this paper, we present an approach for pluralistic image completion - the task of generating multiple and diverse plausible solutions for image completion.

 TITLE:
 Salient Object Detection With Pyramid Attention and Salient Edges

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wang_Salient_Object_Detection_With_Pyramid_Attention_and_Salient_Edges_CVPR_2019_paper.html

 AUTHORS:
 Wenguan Wang, Shuyang Zhao, Jianbing Shen, Steven C. H. Hoi, Ali Borji

 WCHL ICUT:
 This paper network on prove method for detection selicing colligitation in page with a part of the detection.

HIGHLIGHT: This paper presents a new method for detecting salient objects in images using convolutional neural networks (CNNs).

TITLE: Latent Filter Scaling for Multimodal Unsupervised Image-To-Image Translation http://openaccess.thecvf.com/content_CVPR_2019/html/Alharbi_Latent_Filter_Scaling_for_Multimodal_Unsupervised_Image-To-Image_Translation_CVPR_2019_paper.html AUTHORS: Yazeed Alharbi, Neil Smith, Peter Wonka

HIGHLIGHT: We present a simple method that produces higher quality images than current state-of-the-art while maintaining the same amount of multimodal diversity.

TITLE: Attention-Aware Multi-Stroke Style Transfer

http://openaccess.thecvf.com/content CVPR 2019/html/Yao Attention-Aware Multi-

Stroke Style Transfer CVPR 2019 paper.html

AUTHORS: Yuan Yao, Jianqiang Ren, Xuansong Xie, Weidong Liu, Yong-Jin Liu, Jun Wang

HIGHLIGHT: In this paper, we tackle these limitations by developing an attention-aware multi-stroke style transfer model.

TITLE: Feedback Adversarial Learning: Spatial Feedback for Improving Generative Adversarial Networks http://openaccess.thecvf.com/content_CVPR_2019/html/Huh_Feedback_Adversarial_Learning_Spatial_Feedback_for_Improving_Generative_Adversarial_Networks_CVPR_2019_paper.html AUTHORS: Minyoung Huh, Shao-Hua Sun, Ning Zhang

HIGHLIGHT: We propose feedback adversarial learning (FAL) framework that can improve existing generative adversarial networks by leveraging spatial feedback from the discriminator.

 TITLE:
 Learning Pyramid-Context Encoder Network for High-Quality Image Inpainting

 http://openaccess.thecvf.com/content_CVPR_2019/html/Zeng_Learning_Pyramid-Context_Encoder_Network_for_High-Quality_Image_Inpainting_CVPR_2019_paper.html

 AUTHORS:
 Yanhong Zeng, Jianlong Fu, Hongyang Chao, Baining Guo

 HIGHLIGHT:
 In this paper, we propose a Pyramid-context Encoder Network (denoted as PEN-Net) for image inpainting by deep generative models.

 TITLE:
 Example-Guided Style-Consistent Image Synthesis From Semantic Labeling

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wang_Example-Guided_Style-Consistent_Image_Synthesis_From_Semantic_Labeling_CVPR_2019_paper.html

 AUTHORS:
 Miao Wang, Guo-Ye Yang, Ruilong Li, Run-Ze Liang, Song-Hai Zhang, Peter M. Hall, Shi-Min Hu

 HIGHLIGHT:
 We propose a solution to the example-guided image synthesis problem using conditional generative adversarial networks with style consistency.

 TITLE:
 MirrorGAN: Learning Text-To-Image Generation by Redescription

 http://openaccess.thecvf.com/content_CVPR_2019/html/Qiao_MirrorGAN_Learning_Text-To-Image_Generation_by_Redescription_CVPR_2019_paper.html

 AUTHORS:
 Tingting Qiao, Jing Zhang, Duanqing Xu, Dacheng Tao

 HIGHLIGHT:
 In this paper, we address this problem by proposing a novel global-local attentive and semantic-preserving text-to-image-to-text framework called MirrorGAN.

 TITLE:
 Shapes and Context: In-The-Wild Image Synthesis & amp; Manipulation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Bansal_Shapes_and_Context_In-The

 Wild_Image_Synthesis_Manipulation_CVPR_2019_paper.html

 AUTHORS:
 Aayush Bansal, Yaser Sheikh, Deva Ramanan

 HIGHLIGHT:
 We introduce a data-driven model for interactively synthesizing in-the-wild images from semantic label input masks.

 TITLE:
 Semantics Disentangling for Text-To-Image Generation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Yin_Semantics_Disentangling_for_Text-To

 Image_Generation_CVPR_2019_paper.html

 AUTHORS:
 Guojun Yin, Bin Liu, Lu Sheng, Nenghai Yu, Xiaogang Wang, Jing Shao

 HIGHLIGHT:
 In this paper, we consider semantics from the input text descriptions in helping render photo-realistic images.

 TITLE:
 Semantic Image Synthesis With Spatially-Adaptive Normalization

 http://openaccess.thecvf.com/content_CVPR_2019/html/Park_Semantic_Image_Synthesis_With_Spatially-Adaptive_Normalization_CVPR_2019_paper.html

 AUTHORS:
 Tacsung Park, Ming-Yu Liu, Ting-Chun Wang, Jun-Yan Zhu

 HIGHLIGHT:
 We propose spatially-adaptive normalization, a simple but effective layer for synthesizing photorealistic images given an input semantic layout.

 TITLE:
 Progressive Pose Attention Transfer for Person Image Generation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Zhu_Progressive_Pose_Attention_Transfer_for_Person_Image_Generation_

 CVPR_2019_paper.html

 AUTHORS:
 Zhen Zhu, Tengteng Huang, Baoguang Shi, Miao Yu, Bofei Wang, Xiang Bai

 HIGHLIGHT:
 This paper proposes a new generative adversarial network to the problem of pose transfer i.e. transferring the

HIGHLIGHT: This paper proposes a new generative adversarial network to the problem of pose transfer, i.e., transferring the pose of a given person to a target one.

 TITLE:
 Unsupervised Person Image Generation With Semantic Parsing Transformation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Song_Unsupervised_Person_Image_Generation_With_Semantic_Parsing_Tr

 ansformation_CVPR_2019_paper.html

 AUTHORS:
 Sijie Song, Wei Zhang, Jiaying Liu, Tao Mei

 HIGHLIGHT:
 In this paper, we address unsupervised pose-guided person image generation, which is known challenging due to non-rigid deformation.

TITLE: DeepView: View Synthesis With Learned Gradient Descent

http://openaccess.thecvf.com/content_CVPR_2019/html/Flynn_DeepView_View_Synthesis_With_Learned_Gradient_Descent_CVP R_2019_paper.html

AUTHORS: John Flynn, Michael Broxton, Paul Debevec, Matthew DuVall, Graham Fyffe, Ryan Overbeck, Noah Snavely, Richard Tucker

HIGHLIGHT: We present a novel approach to view synthesis using multiplane images (MPIs).

TITLE: Animating Arbitrary Objects via Deep Motion Transfer

http://openaccess.thecvf.com/content_CVPR_2019/html/Siarohin_Animating_Arbitrary_Objects_via_Deep_Motion_Transfer_CVPR_2019_paper.html

AUTHORS: Aliaksandr Siarohin, Stephane Lathuiliere, Sergey Tulyakov, Elisa Ricci, Nicu Sebe

HIGHLIGHT: This paper introduces a novel deep learning framework for image animation.

TITLE: Textured Neural Avatars

http://openaccess.thecvf.com/content_CVPR_2019/html/Shysheya_Textured_Neural_Avatars_CVPR_2019_paper.html AUTHORS: Aliaksandra Shysheya, Egor Zakharov, Kara-Ali Aliev, Renat Bashirov, Egor Burkov, Karim Iskakov, Aleksei Ivakhnenko, Yury Malkov, Igor Pasechnik, Dmitry Ulyanov, Alexander Vakhitov, Victor Lempitsky HIGHLIGHT: We present a system for learning full body neural avatars, i.e. deep networks that produce full body renderings of a person for varying body pose and varying camera pose.

 TITLE:
 IM-Net for High Resolution Video Frame Interpolation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Peleg_IM

 Net_for_High_Resolution_Video_Frame_Interpolation_CVPR_2019_paper.html

 AUTHORS:
 Tomer Peleg, Pablo Szekely, Doron Sabo, Omry Sendik

 HIGHLIGHT:
 In this paper we propose IM-Net: an interpolated motion neural network.

TITLE: Homomorphic Latent Space Interpolation for Unpaired Image-To-Image Translation http://openaccess.thecvf.com/content_CVPR_2019/html/Chen_Homomorphic_Latent_Space_Interpolation_for_Unpaired_Image-To-Image_Translation_CVPR_2019_paper.html

AUTHORS:Ying-Cong Chen, Xiaogang Xu, Zhuotao Tian, Jiaya JiaHIGHLIGHT:In this paper, we propose an alternative framework, as an extension of latent space interpolation, to consider the

intermediate region between two domains during translation.

TITLE: Multi-Channel Attention Selection GAN With Cascaded Semantic Guidance for Cross-View Image Translation http://openaccess.thecvf.com/content_CVPR_2019/html/Tang_Multi-

Channel_Attention_Selection_GAN_With_Cascaded_Semantic_Guidance_for_Cross-View_CVPR_2019_paper.html AUTHORS: Hao Tang, Dan Xu, Nicu Sebe, Yanzhi Wang, Jason J. Corso, Yan Yan

HIGHLIGHT: In this paper, we propose a novel approach named Multi-Channel Attention SelectionGAN (SelectionGAN) that makes it possible to generate images of natural scenes in arbitrary viewpoints, based on an image of the scene and a novel semantic map.

TITLE: Geometry-Consistent Generative Adversarial Networks for One-Sided Unsupervised Domain Mapping http://openaccess.thecvf.com/content_CVPR_2019/html/Fu_Geometry-Consistent_Generative_Adversarial_Networks_for_One-Sided_Unsupervised_Domain_Mapping_CVPR_2019_paper.html

AUTHORS:Huan Fu, Mingming Gong, Chaohui Wang, Kayhan Batmanghelich, Kun Zhang, Dacheng TaoHIGHLIGHT:Finding the optimal GXY without paired data is an ill-posed problem, so appropriate constraints are required to
obtain reasonable solutions.

TITLE: DeepVoxels: Learning Persistent 3D Feature Embeddings

http://openaccess.thecvf.com/content_CVPR_2019/html/Sitzmann_DeepVoxels_Learning_Persistent_3D_Feature_Embeddings_CVP R 2019 paper.html

AUTHORS:Vincent Sitzmann, Justus Thies, Felix Heide, Matthias Niessner, Gordon Wetzstein, Michael ZollhoferHIGHLIGHT:In this work, we address the lack of 3D understanding of generative neural networks by introducing a persistent3D feature embedding for view synthesis.

TITLE: Inverse Path Tracing for Joint Material and Lighting Estimation

http://openaccess.thecvf.com/content_CVPR_2019/html/Azinovic_Inverse_Path_Tracing_for_Joint_Material_and_Lighting_Estimati on CVPR 2019 paper.html

AUTHORS: Dejan Azinovic, Tzu-Mao Li, Anton Kaplanyan, Matthias Niessner

HIGHLIGHT: We introduce Inverse Path Tracing, a novel approach to jointly estimate the material properties of objects and light sources in indoor scenes by using an invertible light transport simulation.

TITLE: The Visual Centrifuge: Model-Free Layered Video Representations

http://openaccess.thecvf.com/content_CVPR_2019/html/Alayrac_The_Visual_Centrifuge_Model-

Free_Layered_Video_Representations_CVPR_2019_paper.html

AUTHORS: Jean-Baptiste Alayrac, Joao Carreira, Andrew Zisserman

HIGHLIGHT: Here we propose a learning-based approach for multi-layered video representation: we introduce novel uncertainty-capturing 3D convolutional architectures and train them to separate blended videos.

TITLE: Label-Noise Robust Generative Adversarial Networks

http://openaccess.thecvf.com/content_CVPR_2019/html/Kaneko_Label-

Noise_Robust_Generative_Adversarial_Networks_CVPR_2019_paper.html

AUTHORS: Takuhiro Kaneko, Yoshitaka Ushiku, Tatsuya Harada

HIGHLIGHT: To remedy this, we propose a novel family of GANs called label-noise robust GANs (rGANs), which, by incorporating a noise transition model, can learn a clean label conditional generative distribution even when training labels are noisy.

TITLE: DLOW: Domain Flow for Adaptation and Generalization

http://openaccess.thecvf.com/content_CVPR_2019/html/Gong_DLOW_Domain_Flow_for_Adaptation_and_Generalization_CVPR_2 019_paper.html

AUTHORS: Rui Gong, Wen Li, Yuhua Chen, Luc Van Gool

HIGHLIGHT: In this work, we present a domain flow generation(DLOW) model to bridge two different domains by generating a continuous sequence of intermediate domains flowing from one domain to the other.

TITLE: CollaGAN: Collaborative GAN for Missing Image Data Imputation

http://openaccess.thecvf.com/content_CVPR_2019/html/Lee_CollaGAN_Collaborative_GAN_for_Missing_Image_Data_Imputation_CVPR_2019 paper.html

AUTHORS: Dongwook Lee, Junyoung Kim, Won-Jin Moon, Jong Chul Ye

HIGHLIGHT: To address this problem, here we proposed a novel framework for missing image data imputation, called Collaborative Generative Adversarial Network (CollaGAN).

TITLE: Spatial Fusion GAN for Image Synthesis

http://openaccess.thecvf.com/content_CVPR_2019/html/Zhan_Spatial_Fusion_GAN_for_Image_Synthesis_CVPR_2019_paper.html AUTHORS: Fangneng Zhan, Hongyuan Zhu, Shijian Lu

HIGHLIGHT: This paper presents an innovative Spatial Fusion GAN (SF-GAN) that combines a geometry synthesizer and an appearance synthesizer to achieve synthesis realism in both geometry and appearance spaces.

TITLE: Text Guided Person Image Synthesis

http://openaccess.thecvf.com/content_CVPR_2019/html/Zhou_Text_Guided_Person_Image_Synthesis_CVPR_2019_paper.html AUTHORS: Xingran Zhou, Siyu Huang, Bin Li, Yingming Li, Jiachen Li, Zhongfei Zhang HIGHLIGHT: This paper presents a novel method to manipulate the visual appearance (pose and attribute) of a person image according to natural language descriptions.

TITLE: STGAN: A Unified Selective Transfer Network for Arbitrary Image Attribute Editing

http://openaccess.thecvf.com/content_CVPR_2019/html/Liu_STGAN_A_Unified_Selective_Transfer_Network_for_Arbitrary_Image _Attribute_CVPR_2019_paper.html

AUTHORS:Ming Liu, Yukang Ding, Min Xia, Xiao Liu, Errui Ding, Wangmeng Zuo, Shilei WenHIGHLIGHT:In this work, we suggest to address these issues from selective transfer perspective.

TITLE: Towards Instance-Level Image-To-Image Translation

http://openaccess.thecvf.com/content_CVPR_2019/html/Shen_Towards_Instance-Level_Image-To-

Image_Translation_CVPR_2019_paper.html

AUTHORS: Zhiqiang Shen, Mingyang Huang, Jianping Shi, Xiangyang Xue, Thomas S. Huang

HIGHLIGHT: In this paper, we present a simple yet effective instance-aware image-to-image translation approach (INIT), which employs the fine-grained local (instance) and global styles to the target image spatially.

TITLE: Dense Intrinsic Appearance Flow for Human Pose Transfer

http://openaccess.thecvf.com/content_CVPR_2019/html/Li_Dense_Intrinsic_Appearance_Flow_for_Human_Pose_Transfer_CVPR_2 019_paper.html

AUTHORS: Yining Li, Chen Huang, Chen Change Loy

HIGHLIGHT: We present a novel approach for the task of human pose transfer, which aims at synthesizing a new image of a person from an input image of that person and a target pose.

TITLE: Depth-Aware Video Frame Interpolation

http://openaccess.thecvf.com/content_CVPR_2019/html/Bao_Depth-Aware_Video_Frame_Interpolation_CVPR_2019_paper.html AUTHORS: Wenbo Bao, Wei-Sheng Lai, Chao Ma, Xiaoyun Zhang, Zhiyong Gao, Ming-Hsuan Yang HIGHLIGHT: In this work, we propose a video frame interpolation method which explicitly detects the occlusion by exploring the depth information. TITLE: Sliced Wasserstein Generative Models

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wu_Sliced_Wasserstein_Generative_Models_CVPR_2019_paper.html

 AUTHORS:
 Jiqing Wu, Zhiwu Huang, Dinesh Acharya, Wen Li, Janine Thoma, Danda Pani Paudel, Luc Van Gool

 HIGHLIGHT:
 In this paper, we introduce novel approximations of the primal and dual SWD.

TITLE: Deep Flow-Guided Video Inpainting

 http://openaccess.thecvf.com/content_CVPR_2019/html/Xu_Deep_Flow-Guided_Video_Inpainting_CVPR_2019_paper.html

 AUTHORS:
 Rui Xu, Xiaoxiao Li, Bolei Zhou, Chen Change Loy

 HIGHLIGHT:
 In this work we propose a novel flow-guided video inpainting approach.

TITLE: Video Generation From Single Semantic Label Map

http://openaccess.thecvf.com/content_CVPR_2019/html/Pan_Video_Generation_From_Single_Semantic_Label_Map_CVPR_2019_p aper.html AUTHORS: Junting Pan, Chengyu Wang, Xu Jia, Jing Shao, Lu Sheng, Junjie Yan, Xiaogang Wang HIGHLIGHT: This paper proposes the novel task of video generation conditioned on a SINGLE semantic label map, which

provides a good balance between flexibility and quality in the generation process.

TITLE: Deep Video Inpainting

1.44	of any logit of CVDD 2010/html//King Door Wildon Invited of CVDD 2010 non-onlight
http://openaccess.thec	v1.com/content_CVPR_2019/ntml/Kim_Deep_v1deo_inpainting_CVPR_2019_paper.ntml
AUTHORS:	Dahun Kim, Sanghyun Woo, Joon-Young Lee, In So Kweon
HIGHLIGHT:	In this work, we propose a novel deep network architecture for fast video inpainting.

 TITLE:
 DM-GAN: Dynamic Memory Generative Adversarial Networks for Text-To-Image Synthesis

 http://openaccess.thecvf.com/content_CVPR_2019/html/Zhu_DM

 GAN_Dynamic_Memory_Generative_Adversarial_Networks_for_Text-To-Image_Synthesis_CVPR_2019_paper.html

 AUTHORS:
 Minfeng Zhu, Pingbo Pan, Wei Chen, Yi Yang

 HIGHLIGHT:
 In this paper, we focus on generating realistic images from text descriptions.

TITLE: Non-Adversarial Image Synthesis With Generative Latent Nearest Neighbors

http://openaccess.thecvf.com/content_CVPR_2019/html/Hoshen_Non-

Adversarial_Image_Synthesis_With_Generative_Latent_Nearest_Neighbors_CVPR_2019_paper.html AUTHORS: Yedid Hoshen, Ke Li, Jitendra Malik

HIGHLIGHT: In this work, we present a novel method - Generative Latent Nearest Neighbors (GLANN) - for training generative models without adversarial training.

TITLE: Mixture Density Generative Adversarial Networks

http://openaccess.thecvf.com/content CVPR 2019/html/Eghbal-

zadeh_Mixture_Density_Generative_Adversarial_Networks_CVPR_2019_paper.html

AUTHORS: Hamid Eghbal-zadeh, Werner Zellinger, Gerhard Widmer

HIGHLIGHT: In this paper, we propose a new GAN variant called Mixture Density GAN that overcomes this problem by encouraging the Discriminator to form clusters in its embedding space, which in turn leads the Generator to exploit these and discover different modes in the data.

TITLE: SketchGAN: Joint Sketch Completion and Recognition With Generative Adversarial Network http://openaccess.thecvf.com/content_CVPR_2019/html/Liu_SketchGAN_Joint_Sketch_Completion_and_Recognition_With_Generative_Adversarial_Network_CVPR_2019_paper.html

AUTHORS: Fang Liu, Xiaoming Deng, Yu-Kun Lai, Yong-Jin Liu, Cuixia Ma, Hongan Wang

HIGHLIGHT: In this paper, we propose SketchGAN, a new generative adversarial network (GAN) based approach that jointly completes and recognizes a sketch, boosting the performance of both tasks.

TITLE: Foreground-Aware Image Inpainting

http://openaccess.thecvf.com/content_CVPR_2019/html/Xiong_Foreground-Aware_Image_Inpainting_CVPR_2019_paper.html AUTHORS: Wei Xiong, Jiahui Yu, Zhe Lin, Jimei Yang, Xin Lu, Connelly Barnes, Jiebo Luo HIGHLIGHT: To address the problem, we propose a foreground-aware image inpainting system that explicitly disentangles structure inference and content completion.

TITLE: Art2Real: Unfolding the Reality of Artworks via Semantically-Aware Image-To-Image Translation http://openaccess.thecvf.com/content_CVPR_2019/html/Tomei_Art2Real_Unfolding_the_Reality_of_Artworks_via_Semantically-Aware_Image-To-Image_Translation_CVPR_2019_paper.html AUTHORS: Matteo Tomei, Marcella Cornia, Lorenzo Baraldi, Rita Cucchiara HIGHLIGHT: In this paper, we propose a semantic-aware architecture which can translate artworks to photo-realistic visualizations, thus reducing the gap between visual features of artistic and realistic data.

TITLE Structure-Preserving Stereoscopic View Synthesis With Multi-Scale Adversarial Correlation Matching http://openaccess.thecvf.com/content_CVPR_2019/html/Zhang_Structure-Preserving_Stereoscopic_View_Synthesis_With_Multi-Scale Adversarial Correlation Matching CVPR 2019 paper.html

AUTHORS: Yu Zhang, Dongqing Zou, Jimmy S. Ren, Zhe Jiang, Xiaohao Chen

HIGHLIGHT: Regarding this issue, this work proposes Multi-Scale Adversarial Correlation Matching (MS-ACM), a novel learning framework for structure-aware view synthesis.

DynTypo: Example-Based Dynamic Text Effects Transfer TITLE: http://openaccess.thecvf.com/content CVPR 2019/html/Men DynTypo Example-Based Dynamic Text Effects Transfer CVPR 2019 paper.html AUTHORS: Yifang Men, Zhouhui Lian, Yingmin Tang, Jianguo Xiao HIGHLIGHT: In this paper, we present a novel approach for dynamic text effects transfer by using example-based texture synthesis.

TITLE: Arbitrary Style Transfer With Style-Attentional Networks http://openaccess.thecvf.com/content_CVPR_2019/html/Park_Arbitrary_Style_Transfer_With_Style-Attentional Networks CVPR 2019 paper.html AUTHORS:

Dae Young Park, Kwang Hee Lee

In this paper, we introduce a novel style-attentional network (SANet) that efficiently and flexibly integrates the HIGHLIGHT: local style patterns according to the semantic spatial distribution of the content image.

Typography With Decor: Intelligent Text Style Transfer TITLE:

http://openaccess.thecvf.com/content CVPR 2019/html/Wang Typography With Decor Intelligent Text Style Transfer CVPR 2 019_paper.html

AUTHORS: Wenjing Wang, Jiaying Liu, Shuai Yang, Zongming Guo

HIGHLIGHT: In this paper, we present a novel framework to stylize the text with exquisite decor, which is ignored by the previous text stylization methods.

TITLE: Listen to the Image

http://openaccess.thecvf.com/content CVPR 2019/html/Hu Listen to the Image CVPR 2019 paper.html AUTHORS: Di Hu, Dong Wang, Xuelong Li, Feiping Nie, Qi Wang

HIGHLIGHT: Their highly consistent results w.r.t. different encoding schemes indicate that using machine model to accelerate optimization evaluation and reduce experimental cost is feasible to some extent, which could dramatically promote the upgrading of encoding scheme then help the blind to improve their visual perception ability.

TITLE: Image Super-Resolution by Neural Texture Transfer

http://openaccess.thecvf.com/content CVPR 2019/html/Zhang Image Super-

Resolution by Neural Texture Transfer CVPR 2019 paper.html

AUTHORS: Zhifei Zhang, Zhaowen Wang, Zhe Lin, Hairong Qi

HIGHLIGHT: This paper aims to unleash the potential of RefSR by leveraging more texture details from Ref images with stronger robustness even when irrelevant Ref images are provided.

Conditional Adversarial Generative Flow for Controllable Image Synthesis TITLE: http://openaccess.thecvf.com/content CVPR 2019/html/Liu Conditional Adversarial Generative Flow for Controllable Image Sy

nthesis CVPR 2019 paper.html

Rui Liu, Yu Liu, Xinyu Gong, Xiaogang Wang, Hongsheng Li AUTHORS:

HIGHLIGHT: In this paper, based on modeling a joint probabilistic density of an image and its conditions, we propose a novel flow-based generative model named conditional adversarial generative flow (CAGlow).

TITLE: How to Make a Pizza: Learning a Compositional Layer-Based GAN Model http://openaccess.thecvf.com/content CVPR 2019/html/Papadopoulos How to Make a Pizza Learning a Compositional Layer-Based GAN CVPR 2019 paper.html AUTHORS: Dim P. Papadopoulos, Youssef Tamaazousti, Ferda Ofli, Ingmar Weber, Antonio Torralba

HIGHLIGHT: In this paper, we aim to teach a machine how to make a pizza by building a generative model that mirrors this step-by-step procedure.

TITLE: TransGaGa: Geometry-Aware Unsupervised Image-To-Image Translation

http://openaccess.thecvf.com/content_CVPR_2019/html/Wu_TransGaGa_Geometry-Aware_Unsupervised_Image-To-Image_Translation_CVPR_2019_paper.html

AUTHORS: Wayne Wu, Kaidi Cao, Cheng Li, Chen Qian, Chen Change Loy

HIGHLIGHT: In this work, we present a novel disentangle-and-translate framework to tackle the complex objects image-toimage translation task.

TITLE: A Content Transformation Block for Image Style Transfer

http://openaccess.thecvf.com/content_CVPR_2019/html/Kotovenko_A_Content_Transformation_Block_for_Image_Style_Transfer_CVPR_2019 paper.html

 AUTHORS:
 Dmytro Kotovenko, Artsiom Sanakoyeu, Pingchuan Ma, Sabine Lang, Bjorn Ommer

 HIGHLIGHT:
 Therefore, we introduce a content transformation module between the encoder and decoder.

TITLE: BeautyGlow: On-Demand Makeup Transfer Framework With Reversible Generative Network http://openaccess.thecvf.com/content_CVPR_2019/html/Chen_BeautyGlow_On-Demand_Makeup_Transfer_Framework_With_Reversible_Generative_Network_CVPR_2019_paper.html

AUTHORS: Hung-Jen Chen, Ka-Ming Hui, Szu-Yu Wang, Li-Wu Tsao, Hong-Han Shuai, Wen-Huang Cheng HIGHLIGHT: To facilitate on-demand makeup transfer, in this work, we propose BeautyGlow that decompose the latent vectors of face images derived from the Glow model into makeup and non-makeup latent vectors.

TITLE: Style Transfer by Relaxed Optimal Transport and Self-Similarity

http://openaccess.thecvf.com/content_CVPR_2019/html/Kolkin_Style_Transfer_by_Relaxed_Optimal_Transport_and_Self-Similarity_CVPR_2019_paper.html

AUTHORS: Nicholas Kolkin, Jason Salavon, Gregory Shakhnarovich

HIGHLIGHT: We propose Style Transfer by Relaxed Optimal Transport and Self-Similarity (STROTSS), a new optimizationbased style transfer algorithm.

TITLE: Inserting Videos Into Videos

 http://openaccess.thecvf.com/content_CVPR_2019/html/Lee_Inserting_Videos_Into_Videos_CVPR_2019_paper.html

 AUTHORS:
 Donghoon Lee, Tomas Pfister, Ming-Hsuan Yang

 HIGHLIGHT:
 In this paper, we introduce a new problem of manipulating a given video by inserting other videos into it.

TITLE: Learning Image and Video Compression Through Spatial-Temporal Energy Compaction http://openaccess.thecvf.com/content_CVPR_2019/html/Cheng_Learning_Image_and_Video_Compression_Through_Spatial-Temporal_Energy_Compaction_CVPR_2019_paper.html

AUTHORS: Zhengxue Cheng, Heming Sun, Masaru Takeuchi, Jiro Katto

HIGHLIGHT: Our basic idea is to realize spatial-temporal energy compaction in learning image and video compression.

TITLE: Event-Based High Dynamic Range Image and Very High Frame Rate Video Generation Using Conditional Generative Adversarial Networks

http://openaccess.thecvf.com/content_CVPR_2019/html/Wang_Event-

Based_High_Dynamic_Range_Image_and_Very_High_Frame_Rate_CVPR_2019_paper.html

AUTHORS: Lin Wang, S. Mohammad Mostafavi I., Yo-Sung Ho, Kuk-Jin Yoon

HIGHLIGHT: In this paper, we unlock the potential of event camera-based conditional generative adversarial networks to create images/videos from an adjustable portion of the event data stream.

 TITLE:
 Enhancing TripleGAN for Semi-Supervised Conditional Instance Synthesis and Classification

 http://openaccess.thecvf.com/content_CVPR_2019/html/Wu_Enhancing_TripleGAN_for_Semi-Supervised_Conditional_Instance_Synthesis_and_Classification_CVPR_2019_paper.html

 AUTHORS:
 Si Wu, Guangchang Deng, Jichang Li, Rui Li, Zhiwen Yu, Hau-San Wong

 HIGHLIGHT:
 To improve both instance synthesis and classification in this setting, we propose an enhanced TripleGAN (EnhancedTGAN) model in this work.

 TITLE:
 Coordinate-Based Texture Inpainting for Pose-Guided Human Image Generation

 http://openaccess.thecvf.com/content_CVPR_2019/html/Grigorev_Coordinate-Based_Texture_Inpainting_for_Pose-Guided_Human_Image_Generation_CVPR_2019_paper.html

 AUTHORS:
 Artur Grigorev, Artem Sevastopolsky, Alexander Vakhitov, Victor Lempitsky

HIGHLIGHT: We present a new deep learning approach to pose-guided resynthesis of human photographs.

TITLE: On Stabilizing Generative Adversarial Training With Noise

http://openaccess.thecvf.com/content_CVPR_2019/html/Jenni_On_Stabilizing_Generative_Adversarial_Training_With_Noise_CVPR_2019_paper.html

AUTHORS:Simon Jenni, Paolo FavaroHIGHLIGHT:We present a novel method and analysis to train generative adversarial networks (GAN) in a stable manner.

TITLE: Self-Supervised GANs via Auxiliary Rotation Loss

http://openaccess.thecvf.com/content_CVPR_2019/html/Chen_Self-

Supervised_GANs_via_Auxiliary_Rotation_Loss_CVPR_2019_paper.html

AUTHORS: Ting Chen, Xiaohua Zhai, Marvin Ritter, Mario Lucic, Neil Houlsby

HIGHLIGHT: In this work we exploit two popular unsupervised learning techniques, adversarial training and self-supervision, and take a step towards bridging the gap between conditional and unconditional GANs.

TITLE: Texture Mixer: A Network for Controllable Synthesis and Interpolation of Texture

http://openaccess.thecvf.com/content_CVPR_2019/html/Yu_Texture_Mixer_A_Network_for_Controllable_Synthesis_and_Interpolati on of CVPR 2019 paper.html

AUTHORS: Ning Yu, Connelly Barnes, Eli Shechtman, Sohrab Amirghodsi, Michal Lukac

HIGHLIGHT: To solve it we propose a neural network trained simultaneously on a reconstruction task and a generation task, which can project texture examples onto a latent space where they can be linearly interpolated and projected back onto the image domain, thus ensuring both intuitive control and realistic results.

TITLE: Object-Driven Text-To-Image Synthesis via Adversarial Training

http://openaccess.thecvf.com/content_CVPR_2019/html/Li_Object-Driven_Text-To-

Image_Synthesis_via_Adversarial_Training_CVPR_2019_paper.html

AUTHORS:Wenbo Li, Pengchuan Zhang, Lei Zhang, Qiuyuan Huang, Xiaodong He, Siwei Lyu, Jianfeng GaoHIGHLIGHT:In this paper, we propose Object-driven Attentive Generative Adversarial Newtorks (Obj-GANs) that allowattention-driven, multi-stage refinement for synthesizing complex images from text descriptions.

TITLE: Zoom-In-To-Check: Boosting Video Interpolation via Instance-Level Discrimination

http://openaccess.thecvf.com/content_CVPR_2019/html/Yuan_Zoom-In-To-Check_Boosting_Video_Interpolation_via_Instance-Level_Discrimination_CVPR_2019_paper.html

AUTHORS: Liangzhe Yuan, Yibo Chen, Hantian Liu, Tao Kong, Jianbo Shi

HIGHLIGHT: We propose a light-weight video frame interpolation algorithm.

TITLE: Disentangling Latent Space for VAE by Label Relevant/Irrelevant Dimensions

http://openaccess.thecvf.com/content_CVPR_2019/html/Zheng_Disentangling_Latent_Space_for_VAE_by_Label_RelevantIrrelevant_Dimensions_CVPR_2019_paper.html

AUTHORS: Zhilin Zheng, Li Sun

HIGHLIGHT: But different from CVAE, we present a method for disentangling the latent space into the label relevant and irrelevant dimensions, zs and zu, for a single input.