

Chapter 05. 이미지 복원 (Image Reconstruction)

# 관련 대회 소개

# NTIRE New Trends in Image Restoration and Enhancement

## NTIRE 2020 image challenges

- **Perceptual Extreme Super-Resolution** started!
- **Real World Super-Resolution - Track 1 Image Processing Artifacts** started!
- **Real World Super-Resolution - Track 2 Smartphone Images** started!
- **Real Image Denoising - Track 1 rawRGB** started!
- **Real Image Denoising - Track 2 sRGB** started!
- **Image Deblurring - Track 1: on desktop** started!
- **Image Deblurring - Track 2: on smartphone** started!
- **Burst Demoiréing - Track 1 Static**
- **Burst Demoiréing - Track 2 Dynamic**
- **Spectral Reconstruction from an RGB Image - Track 1 Clean**
- **Spectral Reconstruction from an RGB Image - Track 2 Real World**
- **Image Dehazing**

One needs to check the corresponding CodaLab competition(s) in order to learn more about and to register to access the data and participate in the challenge(s) of interest.

CVPR과 함께 열리는 Workshop인 NTIRE에서 여는 Challenge.

2018년까지는 SR Challenge만 있었지만, 2019년부터는 다양한 Task에 대해 Challenge를 열고 있다.

<http://www.vision.ee.ethz.ch/ntire20/>

# PIRM2018

## THE CHALLENGES

The PIRM challenges will promote *perceptual* image restoration. State-of-the-art methods in terms of perceptual quality (e.g. **SRGAN**) are rated poorly by "simple" distortion measures such as PSNR and SSIM. Therefore, in contrast to previous challenges, the evaluation and ranking will be done in a perceptual-quality aware manner based on [Blau and Michaeli, CVPR'18]. This unified approach quantifies the accuracy and perceptual quality of algorithms jointly, and will enable perceptual-driven methods to compete alongside algorithms that target PSNR maximization.

The challenge results will be announced at the workshop. Challenge participants may submit papers for the ECCV workshop proceedings. Papers will be accepted based on: (i) academic quality, and (ii) challenge ranking.



### SUPER-RESOLUTION

Challenge on 4x super-resolution from a single-image.

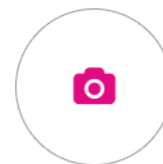
[Challenge report](#)



### ENHANCEMENT ON SMARTPHONES

Challenge on enhancing photos on mobile phones.

[Challenge report](#)



### HYPERSPPECTRAL RECONSTRUCTION

Challenge on reconstructing hyperspectral images.

[Challenge report](#)

ECCV 2018과 함께 열린 Workshop에서 개최한 대회. ECCV 2020에서도 유사한 대회를 기대할 만 하다.

<https://www.pirm2018.org/>