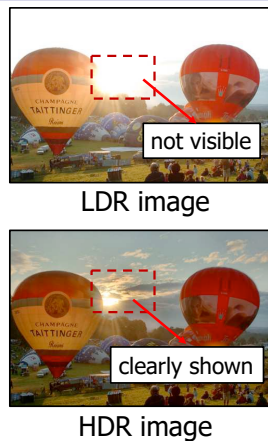


# Pyramid Spatial Feature Transform And Shared Offsets Deformable Alignment based Convolutional Network with Feature Selection for HDR Imaging

廖均達 池永研究室 修士課程修了

## Background

- Low dynamic range (LDR)
  - Bad visual quality
  - Information loss
- High dynamic range (HDR)
  - Good visual quality
  - Close to what human eyes see



## Proposed method

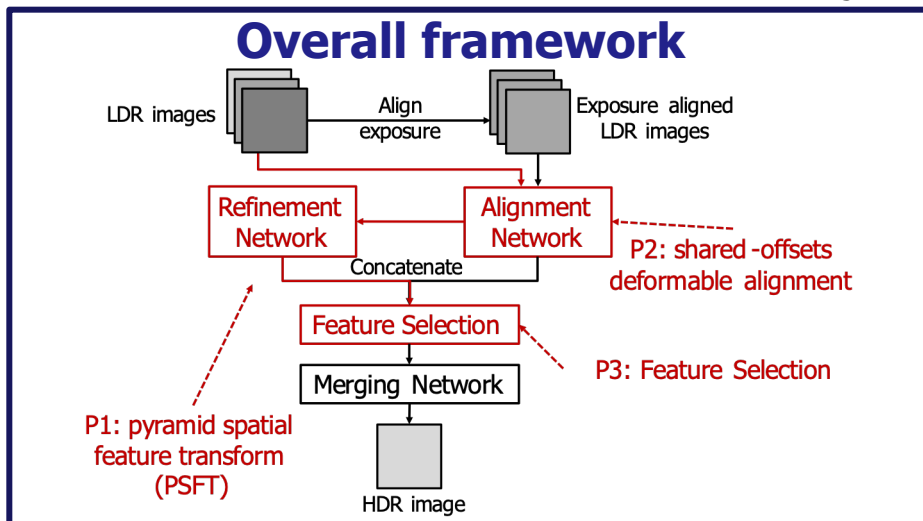
## Challenge – Ghosting Artifacts

Caused by misalignment

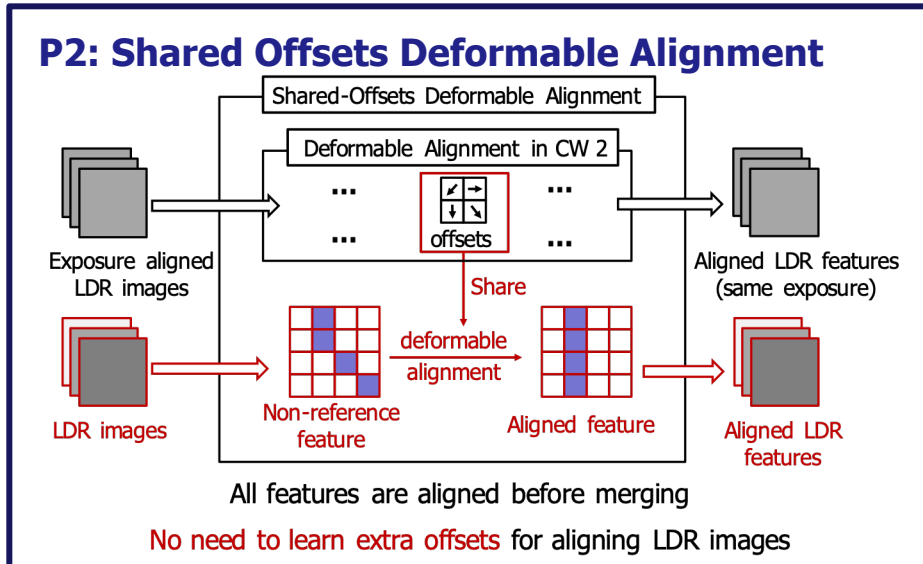
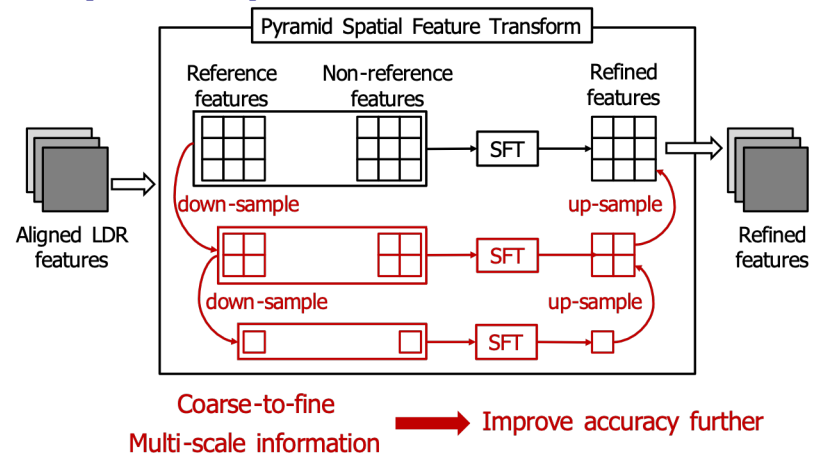


## Target

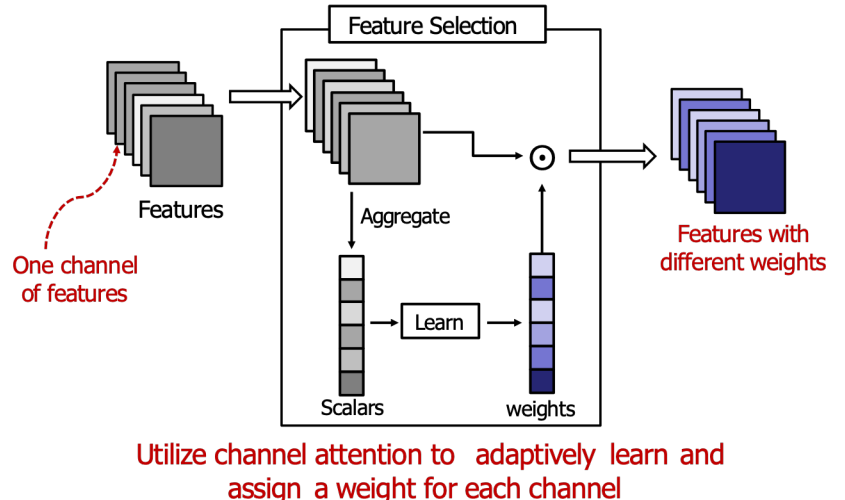
- Generate ghost-free HDR image
- Based on deep learning method



## P1: Pyramid Spatial Feature Transform



## P3: Feature Selection



## Experiments Result

	PSNR-L	PSNR-T
CW2	42.2538	34.7732
P1	42.2724	34.7570
P2	42.1660	34.7951
P1+P2	42.3098	34.7761
P1+P2+P3	<b>42.4102</b>	<b>34.8931</b>

## Conclusion

- The proposed method outperforms conventional works on the public dataset

