

Statistics:

- 50 cities
- 18 spanning years
- 71,900 images
- 1000+ human labeling hours
- 3 tasks
 - change recognition
 - tendency recognition
 - change localization

Continual Change Captioning (Image Pair)

Change recognition

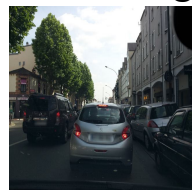


Image A, 2014-06



Image B, 2017-12

The trees in image A have more leaves than those in B. A road lamp is shown on the left side of B, but not on A. The painting of the building on the left side of image A is different from that in B. A is sunnier than B.

Continual Change Captioning (Image Sequence)

Tendency recognition



Image 1, 2015-10



Image 2, 2016-06

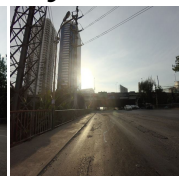


Image 3, 2017-02

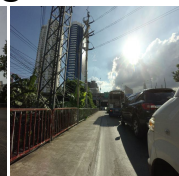


Image 4, 2018-07

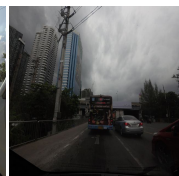


Image 5, 2021-06

The sunniest sky is in image 4. The cloudiest sky is in image 5. Image 3 has the fewest vehicles. The road fence on the left side of the images is gradually eroding. The grassland on the left side of image 1 is the greenest. The road is the oldest in image 3.

Change-Aware Sequential Instance Segmentation

Change localization

