

# Fake-news image..

## Physical level images

- Re-compressed and tampered images often present periodicity in the frequency domain
- design a CNN-based network to automatically capture the characteristics of images in the frequency domain.



(a) A fake-news image



(b) A real-news image



# Fake-news image...

## Semantic level images

- Exhibit some distinct characteristics in the **pixel domain**, visual factors from low-level to high-level
- build a **multi-branch CNN-RNN network** to extract features of different semantic levels for fully capturing the characteristics of fake-news images in the pixel domain.

