

14X065: Digital forensics

Assignment #5:

Copy-Move Forgery Detection

Step 1:

Investigate copy-move forgery detection method based on local descriptors (see 2024_DF_Lab5_Supplements.zip) or https://github.com/cantugba/Copy_Move_Forgery_Detection/tree/main#readme

Step 2:

Repeat the forgery detection results for the images from Copy_Move_Forgery_Detection-main\Test-Images\

Step 3:

Generate 9 copy-move modified images:

- 1) moved part without modifications;
- 2) moved part with scaling application (2 values of scaling factor);
- 3) moved part with rotation application (2 values of rotation angle);
- 4) moved part with Gaussian noise distortions (2 values of Gaussian noise std)
- 5) Moved part with double JPEG compression ($QF2 < 50$) (2 values of $QF2$).

Step 4:

Investigate the robustness of copy-move forgery detection method to the distortions introduced into modified image objects.