



Denoising

With encrypted images

Summary





Quick subject presentation

Encryption
Denoising
CNN



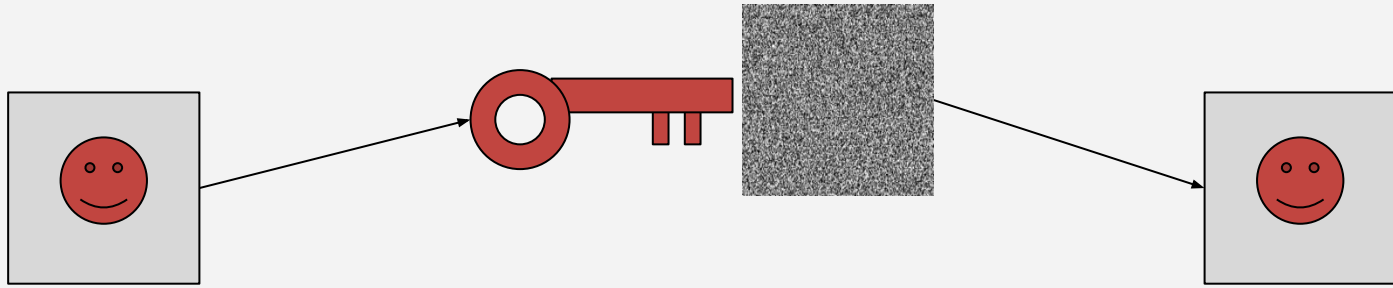
Done and still to do

Work plan
Done
Need to be done

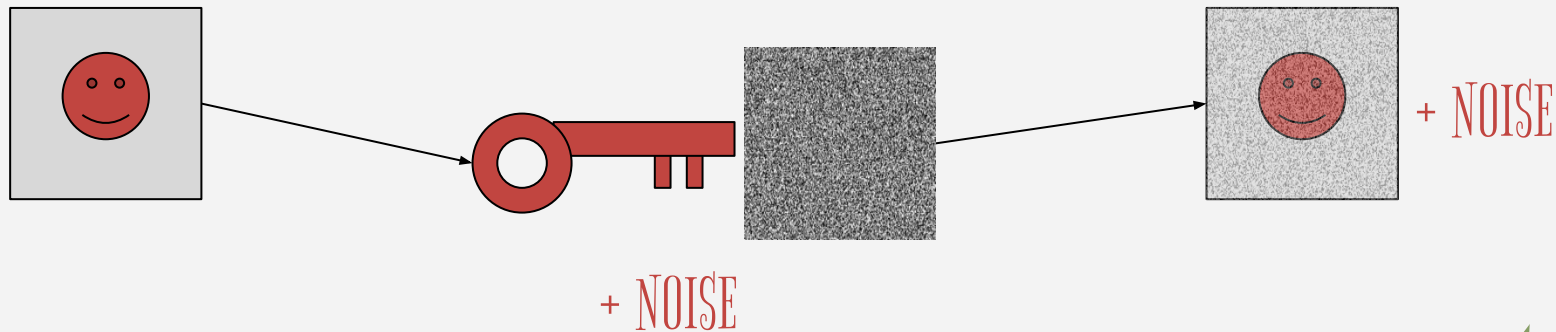


Subject PRESENTATION

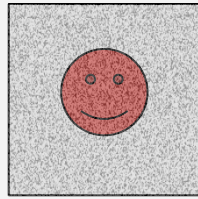
Encryption and denoising



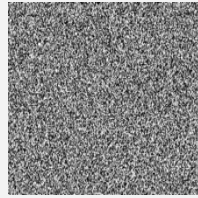
Encryption and denoising



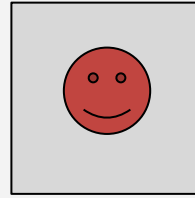
Encryption and denoising



+ NOISE



+ NOISE





Encryption



Robustness

Noise propagation

blocks

A lot of algorithms

Analyse special techniques

*Choice made with noise
behavior*



Denoising



Duality with encryption

Not only noised images

*Need to find answers for
encryption techniques*

Evaluation

Computational measures

Human feelings



CNN



Autoencoders

Classical autoencoders

Variational autoencoders

Classifiers

Noised images

Noised blocks



Work presentation



Global work plan feedback



Noising algorithms

*VAE and AE, with
classifiers*

*Images manipulation
pipeline*



*Shamir on one byte
with Galois Fields*

*Encryption and chaotic
noise*



More complex scenarios

Evaluation interface

More documentations

Thanks!

Images

<https://thumbs.gfycat.com/AdventurousUniqueBallpython-max-1mb.gif>

https://thumbs.gfycat.com/UnequaledGlossyLarva-size_restricted.gif

<https://thumbs.gfycat.com/ClearcutTotalFirebelliedtoad-max-1mb.gif>

<https://art.pixilart.com/f45515ac162f708.gif>

Theme

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