**Projet de débruitage d’images**

HAI927I : Projet Image LIRZIN Léo – SERRANO Léa

po

A close-up of a person

Description automatically generated

A snowy mountain with trees in the background

Description automatically generatedA person riding a horse with a dog

Description automatically generatedA person riding a horse with a dog

Description automatically generated

Bruitage

A snowy mountain range with the moon in the sky

Description automatically generated

Débruitage

Lien GitHub vers le projet: https://github.com/LIRZIN/HAI927-Projet\_IMAGE

Lien Github vers le réseau de neurones utilisé: https://github.com/swz30/Restormer

Image de référence

Impulsif

Image bruitée ( gaussien )

Image de référence

A black and white photo of a snowy mountain range

Description automatically generated

PSNR : 24.7

PSNR : 24.4

PSNR : 24.6

A person riding a horse with a dog

Description automatically generatedA person riding a horse with a dog

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Description automatically generatedA person riding a horse with a dog

Description automatically generated

Algorithme Non-Local Means

Filtre gaussien

Filtre médian

Filtre moyenneur

Filtre moyenneur pondéré

Filtre gradient

Gaussien

Poivre et sel

A snowy mountain range with trees

Description automatically generatedA snowy mountain range with trees

Description automatically generatedv

PSNR : 23.1

PSNR : 20.9

PSNR : 23.7

Speckle

Poisson

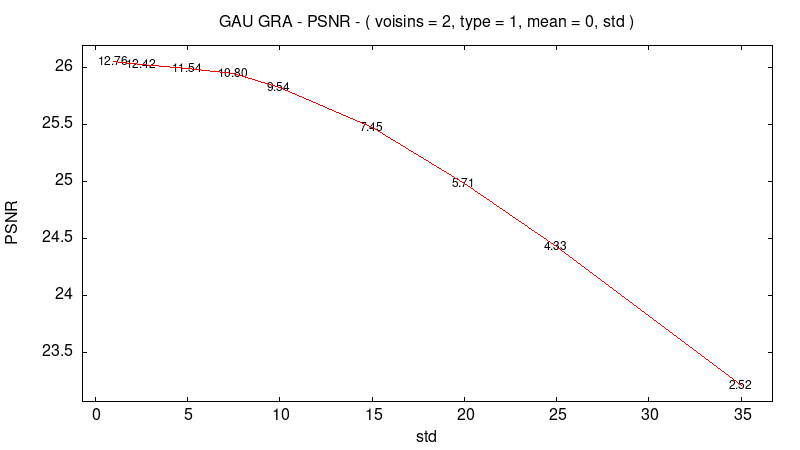
A person riding a horse with a dog

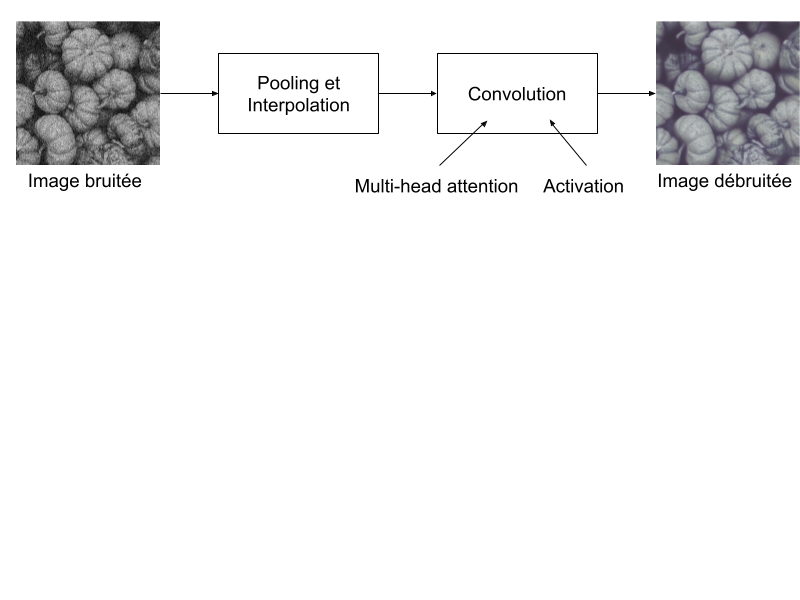
Description automatically generated

* PSNR
* SNR
* SSIM
* RMSE

PSNR : 25.7

Mesure





A red circle with white text

Description automatically generated

Supervisé par : William PUECH

Nicolas DIBOT

Réseau de neurones Restormer