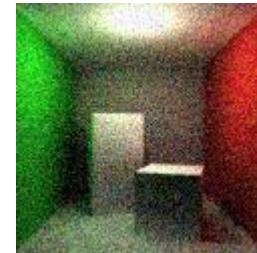
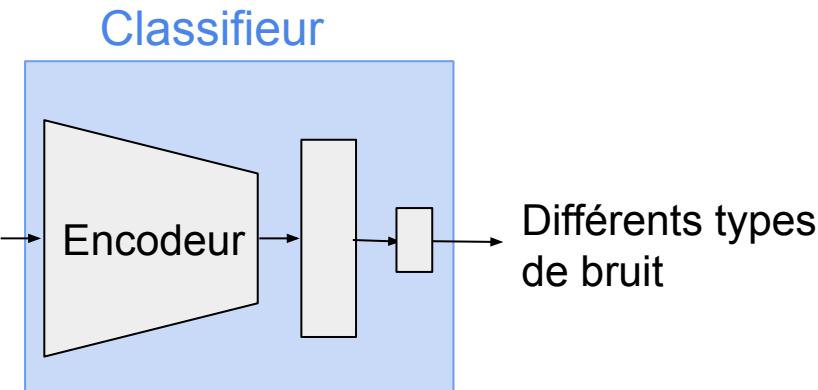


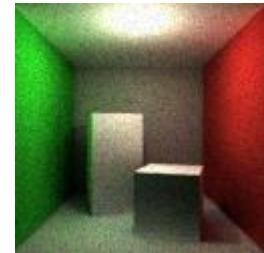
# Débruitage

Thibaut Dupuis  
Virgile Ecard  
Gilles Gonzalez Oropeza

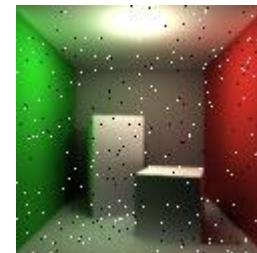
# Description du sujet



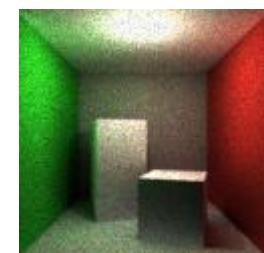
Gaussien  
(additif  
aléatoire)



Poisson  
(additif  
zone lumineuses)



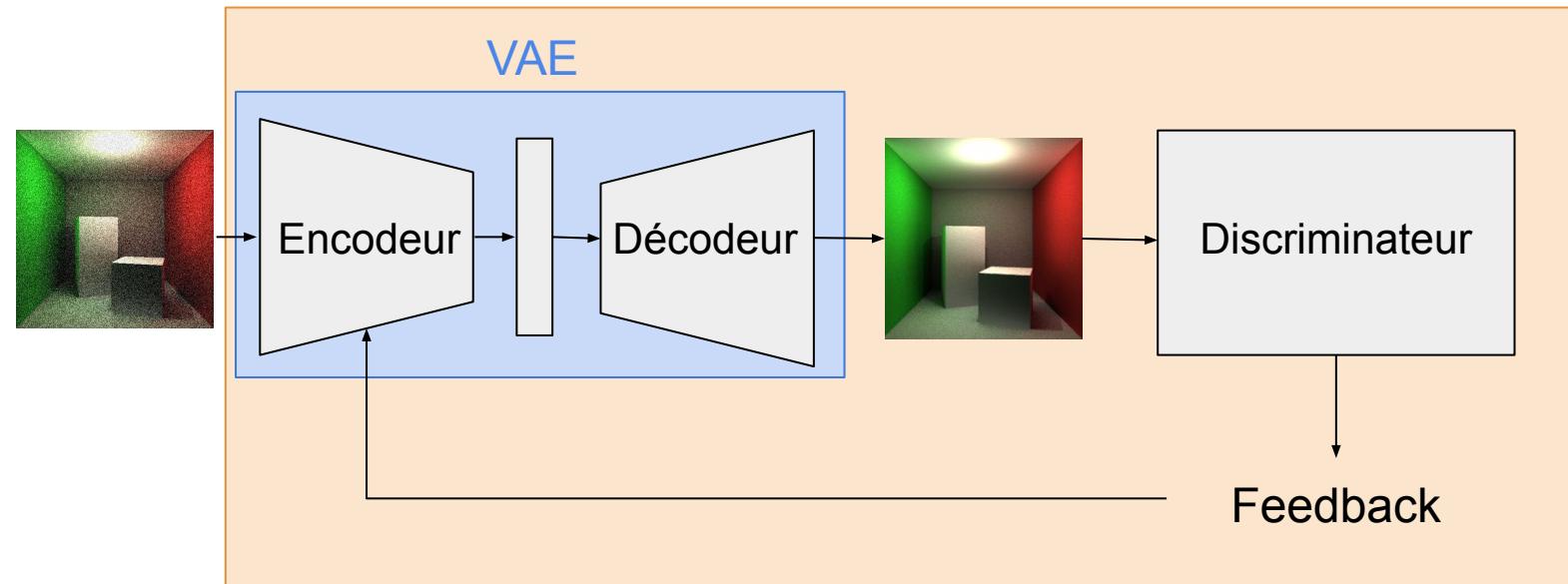
Poivre & sel  
(impulsif)



Speckle  
(multiplicatif)

# Description du sujet

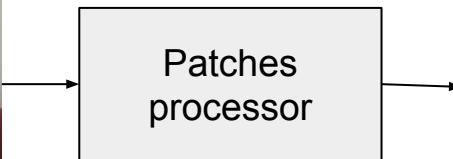
GAN



# Pistes & références

## → Taille et origine des images

Flickr : 30 000 images en couleurs



$s = 125$



+ 4 versions bruitées

déjà implémenté  
par notre groupe

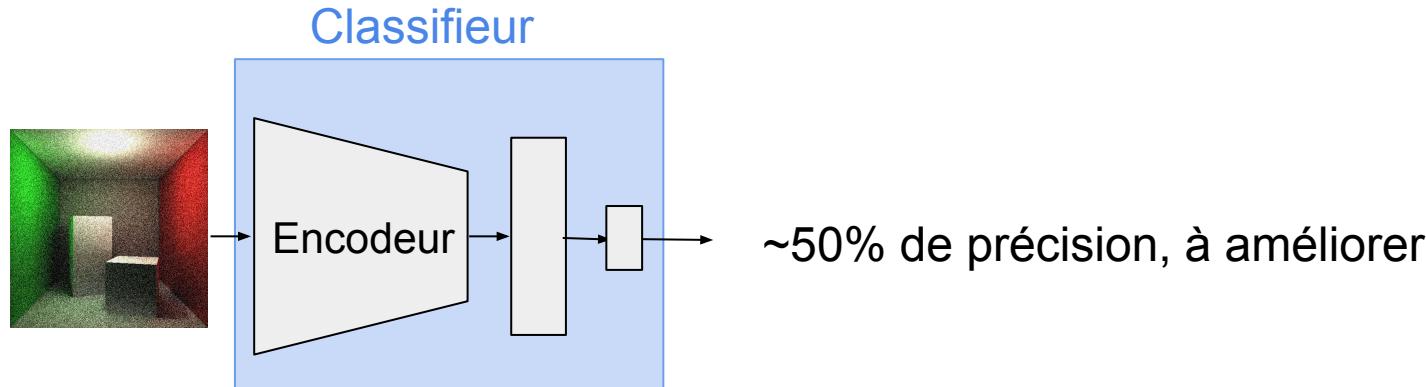


Dataset d'image : <https://www.kaggle.com/datasets/hsankesara/flickr-image-dataset>

FFDNet: Toward a Fast and Flexible Solution for CNN based Image Denoising - Zhang et al. (2017)

# Pistes & références

→ Classifieur



# Pistes & références

## → VAE et GAN

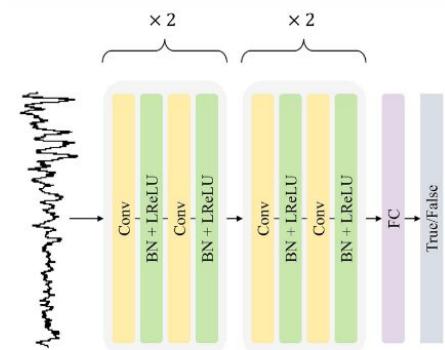
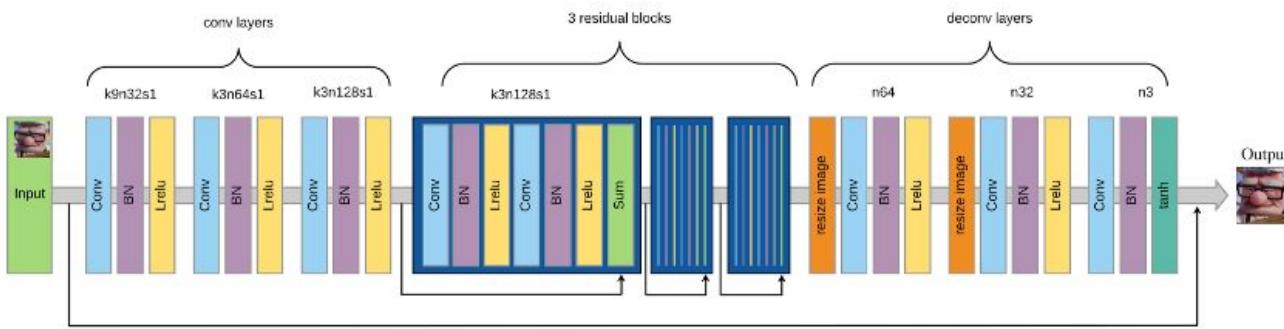


 Image Denoising Using A Generative Adversarial Network - Alsaiari et al. (2019)

A GAN Guided Parallel CNN and Transformer Network for EEG Denoising - Yin et al. (2025)

# Travaux et tâches envisagées

Semaine	Tâches
10 novembre	Classifieur - VAE
17 novembre	VAE - GAN
24 novembre	VAE - GAN
1 décembre	GAN - Interface ? - Vidéo
8 décembre	Présentation

Merci pour votre attention

