ALEXANDRE BERTHET

PHD IN IMAGE PROCESSING

PROFIL

PhD student in Image Processing. My topics of research are Digital Image Forensics and Deep Learning.

FORMATION

Eurecom
2019 - now
PhD, Digital Image Forensics with Deep Learning
Sorbonnes University - Sciences Faculty
2018 - 2019
Master in Engineering Sciences, specialty Image Processing & Artificial Intelligence
2014 - 2017
Bachelor in Electronics

CONTACT

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COMPÉTENCES

Computer Science
Python, Matlab, Java, C++, C, Scala
Pytorch, Tensorflow, Sklearn, Pandas
Engineering
Image Processing, Deep Learning, Signal Processing
Langages
Anglais (B2)

EXPERIENCES

IBM FRANCE, Data Scientist Junior
OCT 2018 - SEPT 2019

Data Mining : study of correlation between mechanical parameters (Pearson, Spearman, PCA, Linear Regression).
Binary classification of articles to determine impact on the environment of companies (NLU, chatbot, NLC).
Demonstration of the functionality of an IBM service dedicated to the monitoring of black box learning models
Writing of an article on deep reinforcement learning.)

Laboratoire d'Informatique Paris 6, Internship
JUNE 2018 - JULY 2018

Implementation of algorithmic method of spectral discrimination for the monitoring of the spinal cord

RESEARCH PROJECT

DEFACTO project for DEFALS Challenge.
FEB 2017 - DEC 2020 (STARTED FROM SEPT 2019)

Automated detection of digital images falsifications. My work in DEFACTO consortium (UTT, EURECOM and SURYS) is about Digital Image Forensics with Deep Learning.

ACADEMIC PROJECTS

Realization of an intelligent system for automated data collect on an apiary.
JAN 2019

Android application creation, IoT use, Image processing with Deep Learning.

Detection and tracking in videos
FEB 2019

Detection of people/objects and application of face blurring in videos.

Realization of image resizing
APRIL 2018

Implementation of an seam carving algorithm inspired from a paper to resize image without loosing quality.