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Augmented Images Classification using Machine Learning and Information Geometry

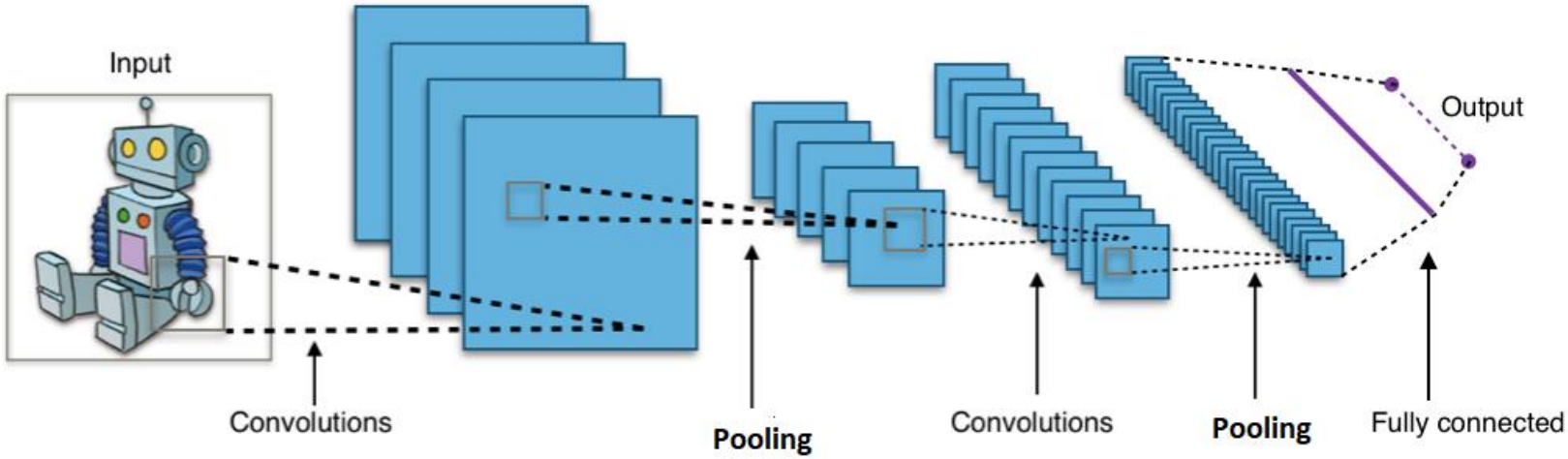
Institutes :
CerCo : UMR 5549 Equipe PRESAGE
ENAC : SINA Equipe OPTIM
Siemens Healthineers

Supervisors :
Thesis Supervisor : Mme Berry Isabelle
Thesis co-director : Mr Maréchal Pierre

Intitulé de la direction/service

Convolutional Neural Network : CNN

Présentation



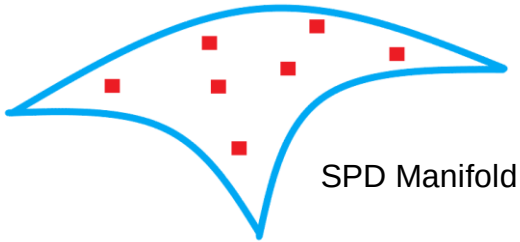
Augmented Images

Définition :

$$\begin{bmatrix} A & B & C \\ D & E & F \\ G & H & I \end{bmatrix}$$

A, B, C, D, E, F, G, H, I are Symetric Positive Definite Matrices (SPD)

Problématique :



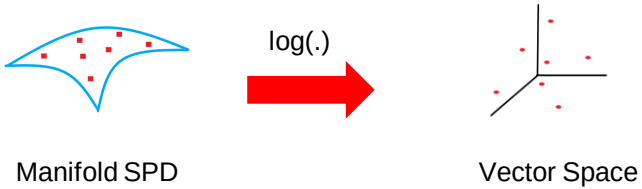
~~Convolution and Pooling Layer~~

Objectives

Algorithm Implementation :

Step 0 : Augmented Images

Step 1 : pre-processing



Step 2: Convolutional Neural Network

Applications :

1. Medical : sclerosis
2. Aeronautics : delay in air trafic

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Articles :

It is being written

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