Apprentissage Profond

ECTS : 3

Volume horaire : 24

Description du contenu de l'enseignement :

This course is about using deep learning tools.

The objective of the course is to be able to design deep neural networks and to apply them to various problems. The language used for the course is Torch. It relies on the Lua scipting language augmented with tensor specific instructions. During the course, we will use simple examples to learn how to generate and transform data in Torch as well as how to learn from this data. We will cover deep neural networks, deep convolutional neural networks and some optimizations of the architecture such as residual nets.