

# HPC - Homework

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2017-2018

## 1 To do

You are invited to write a small survey about a thematic of HPC. The topics are given in the following section. Their abstraction let you the opportunity to take a more specific angle of discussion.

Do not hesitate to extract and develop a specific sub-subject of these topics. By example, you could write about the story of AlphaGo and Deepmind, the impact of Quantum Computing in the crypto security or the HPC requirements of Netflix.

Your work must have no less than 1800 words and it must have a section dedicated to your references (scientific papers, technical blogs... Avoid Wikipedia!)

You can add illustrations: you can see this exercise such as the writing of a technical blog post or a material to explain the interest/to popularise the HPC and its applications to your boss and your colleagues.

Return date: 1st march 2018

How: a pdf at cedric.cf.edu@gmail.com

## 2 Topics

HPC and AI: The challenges and the requirements, the current solutions and the future

Quantum Computing: Theories and impacts

HPC for the industry: who, how and how many