MACHINE LEARNING

HOMEWORK N.1

Autonomous weapons are not operated with human involvement but utilize artificial intelligence Instead. Autonomous weapons may present dangers:

The first concern is that, because of the plausible AI arm race, autonomous weapons could become as common as Kalashnikovs are today.

The second concern is that contrary to nuclear weapons, these are relatively cheap, and could last long with few maintenance costs. They could easily end up in the wrong hands and become harmful for the society. Autonomous weapons could be for example ideal for assassinations, destabilizing nations, subduing populations, and selectively killing a particular ethnic group.

Other dangers that machine learning / artificial intelligence can present are the followings:

Dangers for individuals: Sophisticated machine-driven algorithms could be developed to exploit phishing frauds. The targeted individual could not distinguish whether he/she is dealing with a human or with a fraudulent entity. Financial information, digital identity, and private data could easily get stolen.

Dangers for the economy: automated algorithms that trade on the financial markets could increase volatility, instability, and unintended systematic risk. In addition, could crowd-out less sophisticated investors.

Dangers for the political stability: democratic elections could be influenced by ad-hoc false campaigning and messaging.