

When should humans overrule AI

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Problem presentation

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- For example: automated or semi-automated control systems for means of transport, facial recognition, medical diagnosis etc.
- On the one hand this represents for sure a great innovation, since it allow people to have quicker and precise answers. Generally speaking, it allows to avoid human errors due to lack of attention or inability to detect specific details beyond a certain limit.

Opportunities

- The use of automated systems for transports, generally reduce human errors, since every value like, speed, reactivity and distances are precisely calculated by computers.
- In a medical setting, AI is very often used in radiology and it prevents inattentional blindness. 83% of radiologist didn't see the image of a little gorilla on a radiography.
- Facial recognition is widely used in society e.g. passing through airports or to unlocking smartphones.

However... are we sure that this is always a good thing?

Ethical challenges/ambiguities

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- Criticalities in the medical application: the algorithms are based on datasets relatively small if compared with the real world possible scenarios; there are also concerns about the patient's privacy.
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- Also facial recognition presents privacy challenges.
- In conclusion: are there situations where human intervention is necessary?
- How can human intervention be combined with the benefits that AI guarantee?

Tahnk you for the attention!