How artificial intelligence and machine learning will change vehicles and transport
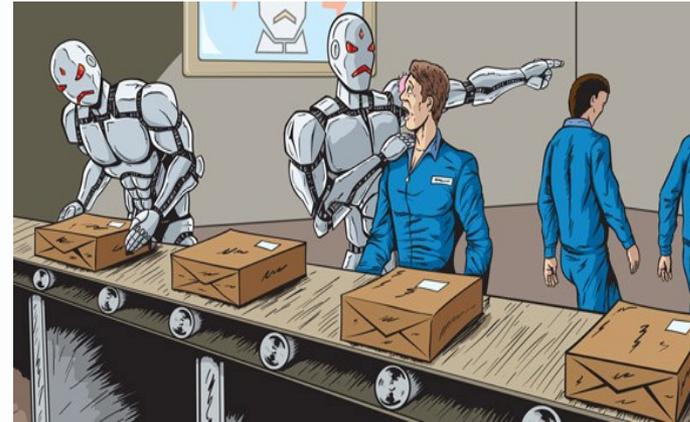
Geneva International Motor Show

Geneva, 9 March 2017

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Risk-Benefit Duality

Accelerating AI capabilities will open up new opportunities for individuals, the economy, and society, but they also have the potential to disrupt the current livelihoods of millions worldwide and pose security challenges

Benefits

- ## Self-driving vehicles

- Save millions of lives, time, enhance security, improve environment

- ## Networked vehicles

- Constant exchange of traffic related data

- ## Advanced forecasting in industrial applications

- e.g. freight industry to forecast loads, devise optimal routes

Risks

- ## **Security Risks**

- Automated driving networks will be susceptible to cyber-attacks

- ## **Personal data protection**

 - Privacy issues, what the car knows about you and who it tells ?

- ## **Social Economic Risks**

- Millions of jobs (including ecosystem) can be lost (most case studies are on AVs)

What should we do about it?

- **Understanding of risks and benefits of AI and transportation**

- **Understand the limitations of AI (Vulnerabilities of widely used algorithms should be studied)**

- **Careful policies - to protect the society from potential dangers of self-driving cars**

- **Careful cross-disciplinary research on interaction of humans with self-driving cars**

- **Privacy and data protection**

UNICRI Centre on Artificial Intelligence and Robotic

Transforming an Idea into Reality

UNICRI Centre on AI and Robotics

UNICRI Centre on AI and Robotics in the Hague

… To enhance understanding of the risk-benefit duality of AI and robotics through improved coordination, knowledge collection and dissemination, awareness-raising and outreach activities

Thank you!

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