

Ethics of Automation

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Ethical Automation: Introduction

- A note on Labor
- A brief review of the industrial revolution(s)
- The Big Questions:
 - We know automation destroys jobs. How many does it make?
 - What do we do when people lose their jobs?

Ethical Automation: will automation create net job loss?



Ethical Automation: proposed solutions to job loss



Ethical Automation: A brief aside

- From Worker to Product
 - We've talked about a worker being replaced by a machine
 - How do we talk about those machines?
- What is Responsibility?
- The Big Questions:
 - When an automated machine fails, who is responsible?
 - What kind of failure is acceptable?

Responsibility

Self-Driving Cars

- The manufacturer is liable for failure, not the user

How Safe is Safe Enough?

424,331 autonomous miles. . . with a catch

- “Safety Driver”
- Relinquished Control
- Emergency Intervention

Is it Moral to Trust the Morality of a Machine?

Ethical Automation: Trust in Automation

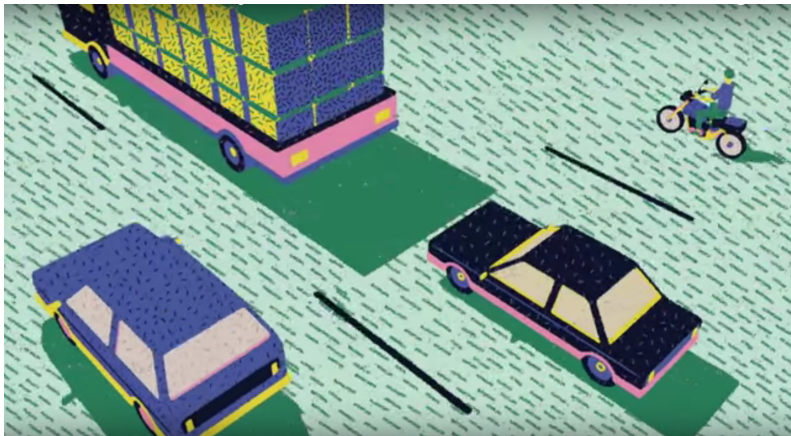


Figure: An Ethical Scenario.

Reaction vs Decision

- Humans react while machines decide

Ethical Automation: Trust in Automation



Figure:

Conclusion

- These moral dilemmas are too complicated and too controversial to decide

Ethical Automation: Trust in Automation



Ethical Automation: Responsibility in Automation

Self-Driving Cars

- Do you watch cop shows, crime drama and action flicks?



Figure:

Ethical Automation: Conclusion

- Consequences of automation
- Big changes are coming
 - We've got to talk about it now,
 - We've got to to talk about it a lot.

Questions?