

# Artificial Intelligence overview and impacts

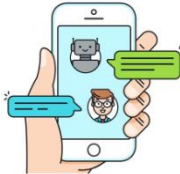


**Eunika Mercier-Laurent**

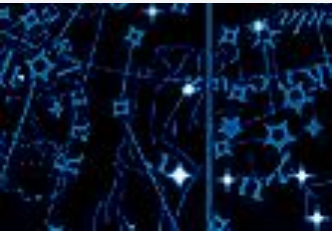
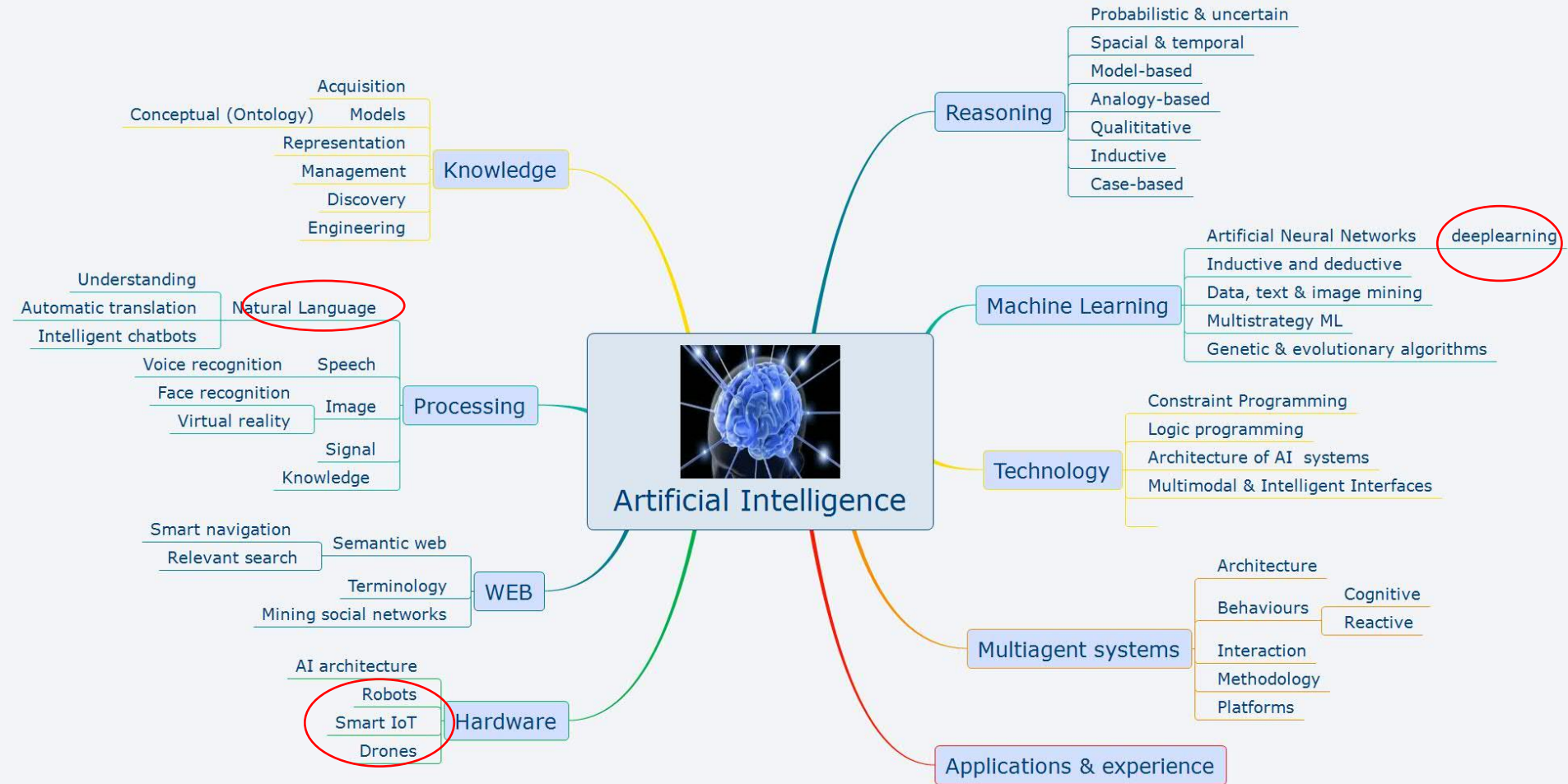
Global Innovation Strategies, IFIP TC12, EPITA, CReSTIC  
eunika.mercier-laurent@univ-reims.fr  
<http://innovation-ecosystems.eu>

# 3rd wave of IA

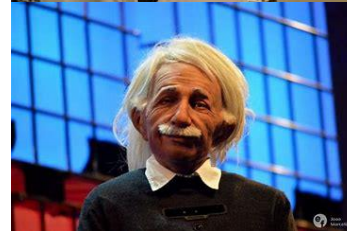
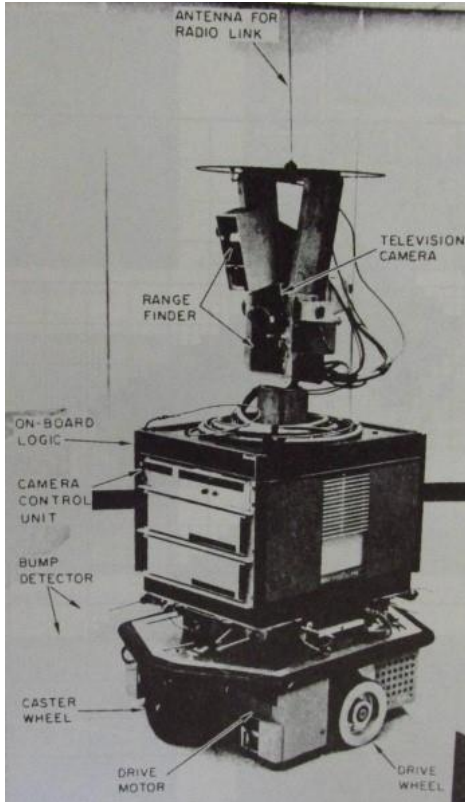


- Motivation: sale more and quicker  
**Deep learning** on navigation data & «client experience »
- “Intelligent” assistants 
- Robots, drones, IoT and autonomus systems
- And ... still real needs & challenges

# AI patrimony



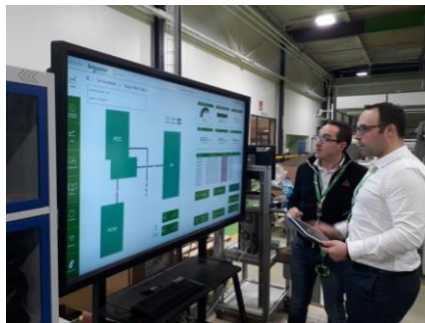
# Evolution of robots



<https://www.youtube.com/watch?v=OEIeS12TcWU>

# Embedded AI

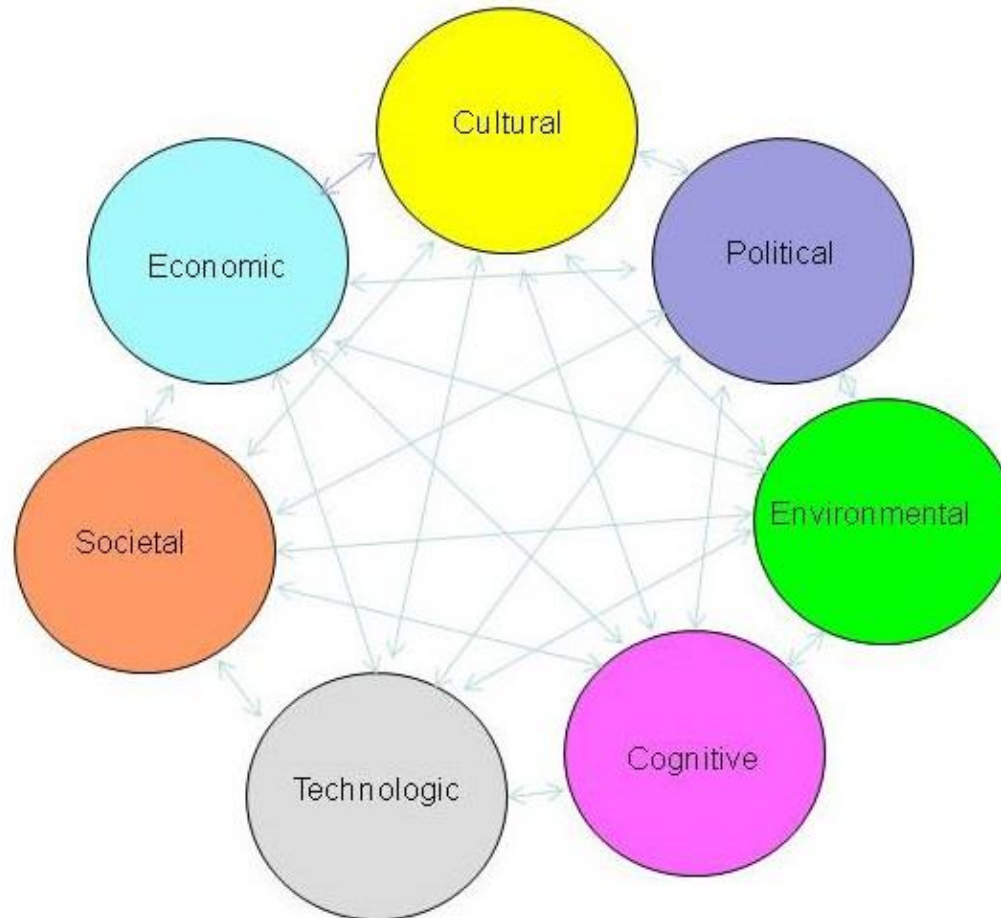
- **D**ecision **S**upport **S**ystems
- Thermal **diagnostics** of buildings, **measurements** of cereal surfaces to evaluate the amount of fertilizer needed, **inspections** of power lines..
- Future factory (Vaudreuil, Safran...**cobots**)



# Warnings and risks

- One technique for all kinds of problem!
- Bugs in autonomous systems, missing data
- Weak mastering of ML programs - AI is programmed to do something beneficial, but it develops a destructive method for achieving its goal
- Bad usages (autonomous weapons...)  
<https://www.youtube.com/watch?v=TIO2gcs1YvM>
- “Switching-off” the brain

# Multiple impacts of AI



# AI and real life –complex problems solving

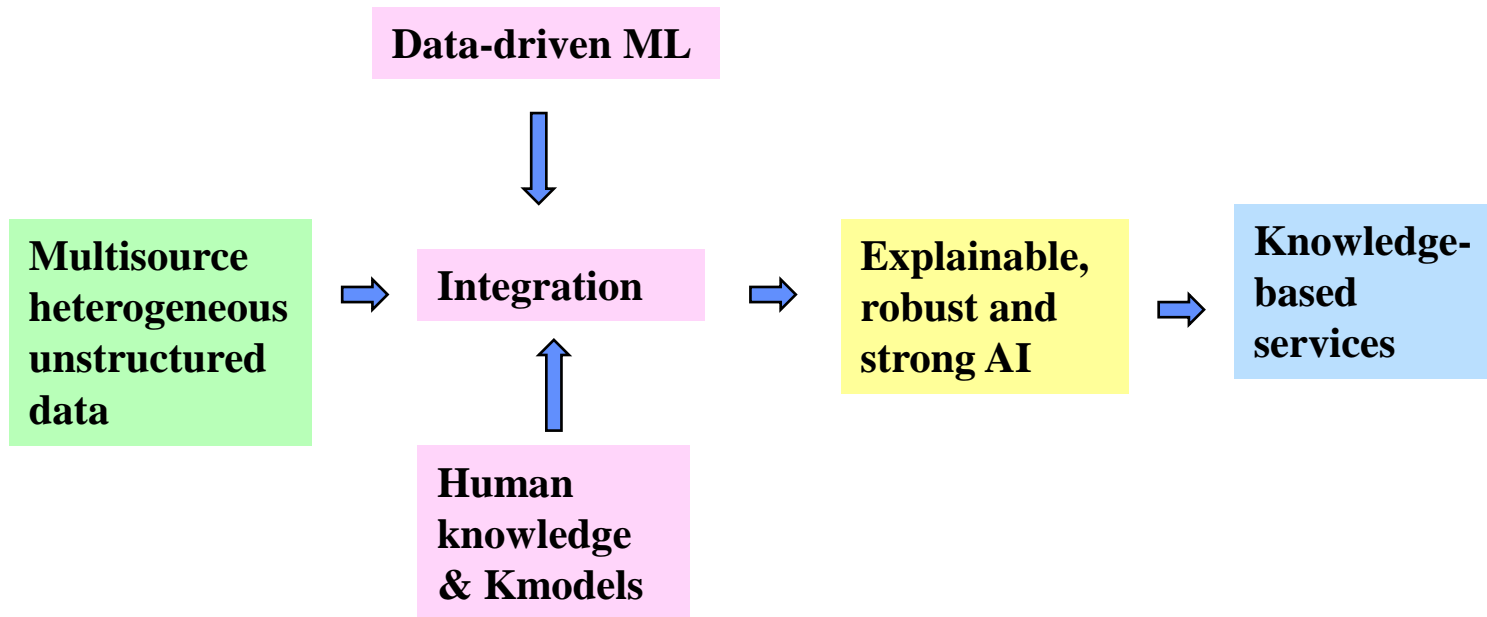
- Optimization
- Eco-design – recycling – circular economy/energy →
- Greener software
- Global security
- Human spare pieces



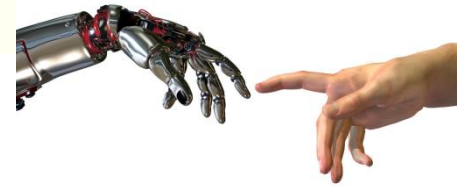
Hybrid systems



# 4th generation AI



# AI & future – needs or dreams?



- Super-robot or help humans?
- EU/ World regulation for « bad » AI?
- Good AI?
- Enhance human intelligence or understand our brain capacities?
- More collaborative research instead of competition