

Open Discussion #2

BARCELONA May 2024

NexComm 2024 & DigitalWorld 2024

Theme: Robots-Human Co-existence

COORDINATORS

Pr. Lect. Dr. Lodewijk Arntzen, The Hague University of Applied Sciences, The Netherlands

Prof. Dr. Lasse Berntzen, University of South-Eastern Norway,Norway





Items

- a. Man-Machine: partnership or master/slave relations
- b. Machine-based decision, as a second opinion
- c. Will discuss some opportunities for hardware robotics
- d. Agriculture (better use of soil, water)
- e. Transport/logistics (self-driving, automated)
- f. Medicine (micro-surgery, logistics)...
- g. ...



OD#2 / Lodewijk

Barcelona May 2024

- Humans should not be valued as 'poorly functioning' Robots
- Humans should not be valued as a 'poorly functioning' Computer



- The Human Brain is extremely limited compared to Computers/AI in one way, but also has completely unique capacities in another way -
- Educational Systems should be training this unique capacity of the Human Intelligence, and should not be superseded by tasks computers including Al can also accomplish
- We should acknowledge and protect the unique capacity in society of human intelligence in pivotal positions and strictly protect this
- Human intelligence outcome may not be based on Boolean computing may not even be algorithmic, and may not be predictable in principle
- Quantum Computing may be a closer match—but we do not know how the brain works precisely

Lodewijk Arntzen
Physics Lecturer
The Hague University of
Applied Sciences



OD#2 / Lasse

BARCELONA May 2024

Robots – Human Co-existence

- My partner robot
- Today, personal assistant, ChatGPT, Sonix
- Tomorrow, my hardware personal assistant
- Carry things, heavy weights, helping with reconstruction
- Some ethical considerations
 - Privacy
 - Security
 - Swarms



Lasse Berntzen, Professor, Information Systems, University of South-Eastern Norway

lasse.berntzen@usn.no



OD#2 / Lasse Berntzen

BARCELONA May 2024

Robots – Human Co-existence

- Robots: Both hardware and software
- Can help with both trivial and advanced problems, enhance human capabilities
- Some professions will disappear, but others will emerge
- Example: ChatGPT and newsdesks