Paragraph 1

Motion for a resolution

1. Calls on the Commission to propose common Union definitions of cyber physical systems, autonomous systems, smart autonomous robots and their subcategories by taking into consideration the following characteristics of a smart robot:

- the acquisition of autonomy through sensors and/or by exchanging data with its environment (inter-connectivity) and the trading and analysing of those data
- self-learning from experience and by interaction (optional criterion)
- at least a minor physical support
- the adaptation of its behaviour and actions to the environment;
- absence of life in the biological sense;
- cyber-physical systems (CPS) are engineered systems that are built from, and depend upon, the seamless integration of computational algorithms and physical components,
- autonomous systems are physical systems with embedded energy source(s) allowing it to operate without depending on one or more external sources of energy,
- self-driving systems are programmed computer-controlled systems with physical captors giving local physical environment and position information of the system to the controller of this system, and able to control and operate physical self-
generated movements (shiftings) without human intervention,

- smart robots are autonomous robots with physical captors including cameras, scanning the local physical environment and providing geolocalisation data, data recording functionality (learning) associated with a programmed capacity to adapt the robots’ behaviour and actions accordingly, taking into account both the environmental data and the data history stored by the robot itself,

- humanoid robots are robots with a partial or total human body physical appearance;
Amendment 10/rev
Beatrix von Storch
on behalf of the EFDD Group

Report
Mady Delvaux
Civil Law Rules on Robotics
2015/2103(INL)

Motion for a resolution
Subheading before paragraph 36

Human repair and enhancement

Human repair
United in diversity