10.2.2017 A8-0005/9/rev

Amendment 9/rev Beatrix von Storch on behalf of the EFDD Group

Report A8-0005/2017

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

Motion for a resolution 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;

Amendment

- 1. Calls on the Commission to propose *the following* common Union definitions:
- artificial intelligence is a computerised system able to simulate a part of human cognitive functions, such as learning and problem solving,
- robots are programmed computer controlled physical machines capable of carrying out a complex series of physical actions automatically,
- 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 of 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-

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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;

Or en

10.2.2017 A8-0005/10/rev

Amendment 10/rev
Beatrix von Storch
on behalf of the EFDD Group

Report A8-0005/2017

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

Motion for a resolution Subheading before paragraph 36

Motion for a resolution Amendment

Human repair *and enhancement* Human repair

Or. en

EN