

# Technology Update

## “Hybrid Societies”: Man Machine Interaction

Anil Kumar Ghosh<sup>†</sup>

At the TU Chemnitz, Germany, the researchers investigate how human being and machine in future could work together. Very soon man and robots always and everywhere meet together at the market place in the tube slaficons (U-Bahn). They will talk to one another and work together; perhaps rather they will shake hands. Sachsen researchers in a special research domain are investigating how living together of man and machine can be achieved.

Man anticipates the behaviour of the man in open space and set themselves on that. But with machines it is difficult – says George John, Professor for applied Geronto psychology and kogniten at the TU Chemnitz.

From evolutionary point of view we are not adjusted with that to communicate with robots to share the footpath with them or to take packets from them in reception. But exactly we must quickly perhaps adjust.

Factories and storehouses have already accepted robots; at the next they conquer perhaps the open space. Science fiction is thus in each case already nothing more. In the meantime it gives irrigation robots which moves from pit to pit and pour water on soil. Automatic spraying vehicle which scatter salt on the road. Carrier robots can bring pizza and pasta from door to door. The German traffic experiments with a service robot which not only gives modest information to the customer but also before all naturally speaks and should negotiate emotion.

Supermarket Company Edela tested in the past years a robot which as sales assistant moves in the market for the customers to help things pick up from the shelf and place the things in their carriage.

In Singapore at the beginning of the pandemic the robot dog Spot of the US Firm Bosto Dynamics wandered about in the park in order to remind the passers by through loudspeaker do please maintain gap including emergency speech announced for the faulty conduct of the citizen.

In Hawaii a Robo-Dog performs fully eye scan at the homeless/roofless so that they test for COVID symptoms. “That is highly dubious”, says George John. John is the engineer psychologist and chairman of the special research domain “Hybrid Societies” at the TU Chemnitz.

In total 120 researchers investigate here how man and machine in future can and should work together. Under that there are engineers, scientists and psychologists, mathematicians and informatician, social scientists also mental scientists. The project is in the highest prospects interdisciplinary. Then not only technical questionings stand in focus but also ethical, legal, and psychological also. About the questions how the appearance and the movement model of a robot work on the surrounding of human beings or how men know (recognize) which intention of an automatically running vehicle follows up, whether it makes the travel becomes slower or faster. How homosapiens and Mr. Robot can

communicate with Blinks or how the Avatars move as per the desires of users.

When we want to come faster with the robot, we must learn more about the human being says Christian Pentzold, Professor for Communication and media science in Chemnitz University. To that everyone reacts differently when one comes closer to an android – a robot with human appearance. This behavior depends on his character, but also an age gender or cultural habit also whether he is highly intelligent or cognitive and physically confined.

At the beginning of 2020 the special research are “Hybrid Societies” was started at the technical university Chemnitz. The German Research Society (DFG) promotes the project in the first four years with 10 million Euros. The

Sachsen promises on that some more things. The university becomes remarkable with future themes, believes George Jahn. It becomes more attractive as research standard.

The name Hybrid Societies is a linguistic new concept emerged nowhere, in the search rankings in internet it is fully by the TU Chemnitz reserved also that is the part of the concept. As bigger study-results are expected in course of the years. These are also necessary after four years it is decided whether the (DFG) extends for four years the special research area. In total a promotion for 12 years is possible.

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