

Institut für Christliche Philosophie

Gastvortrag

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(Innsbruck)

Bootstrapping Robot Cognition From Sensorimotor Interaction

Mi., 28. 6. 2017, 19.00 Uhr s.t., Seminarraum VI (Karl-Rahner-Platz 3)

How can we build robots that are able to help us with our daily chores? To operate in unstructured, human environments, they require knowledge and understanding that is impossible to hard-code into them. Current consensus holds that robots must acquire it by learning, much like children do. I will describe recent and ongoing work in my lab on robots acquiring sensorimotor understanding by playful interaction with their environment, and will extrapolate on how to bootstrap higher-level cognition on this basis. The challenges involved in raising the level of embodied artificial intelligence are substantial. There is no reason to be fearful of autonomous robots anytime soon – greater threats already exist in unembodied systems.

Justus Piater is a professor of computer science at the University of Innsbruck, where he leads the Intelligent and Interactive Systems group. He is a graduate of the University of Massachusetts Amherst.
Before joining the University of Innsbruck in 2010, he was a visiting researcher at the MPI for Biological Cybernetics in Tübingen and a professor at the University of Liège. His research interests focus on visual perception, learning and inference motivated by autonomous robotics.

Alle Interessentinnen und Interessenten sind herzlich eingeladen!