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Speaker: André Potenza, PhD student

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Title: Development of a Telepresence Robot for Research

Abstract:

In the not too distant future telepresence robots are expected to become increasingly useful devices that will allow us to explore and interact with remote environments with a fair level of independence.

Due mainly to hardware constraints, current telepresence platforms are restricted to robot-friendly types of environments and their range of actions is very limited. Efficient navigation, interface design and remote presence are ongoing topics of research in the field.

Most commercially available robots are closed platforms with proprietary software, offering few, if any, possibilities for modification of their components, rendering them unfit for academic research.

In the seminar I will present our work with telepresence robotics at the Center for Applied Autonomous Sensor Systems (AASS) at Örebro University and describe the development process of our own open-source platform.

Bio:

I studied Cognitive Science (B.Sc. and M.Sc.) in Osnabrück, Germany. Since 2017, I am a PhD student at Örebro University in the SOCRATES MSCA-ITN project, which was created to develop the field of social robotics with an application focus on robotics in eldercare.

Besides telepresence, my research is concerned with adaptivity in mobile robots, specifically with respect to shared autonomy and shared task execution.