



Predictive Neural Information for Proactive Actions

The Plan4Act project will provide new emerging technologies that address “How neural activity, representing high-level cognitive processes of planning and mental simulation of action sequences can be extracted and used to proactively control smart home environments”.

The basis for this are recent experimental results that show that complex planning and sequencing information is represented by neural activity in the (monkey) brain . These investigations shall here be extended and transferred to a BMI-setup for controlling devices with more foresight than present in the currently existing systems. The here planned research and innovation action will, thus, open up a future path for people with disabilities to interact with their (smart) environment in a more robust way by – for the first time – including predictive neural information towards improving the quality of their life.



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