



Org(SB-EAI) - An Organizational Approach to the Synthetic Modeling of Cognition based on Synthetic Biology and Embodied AI

Org(SB-EAI) aims to introduce a new AI approach, based on the integration of synthetic modeling of natural cognitive processes developed in the framework of Embodied AI (EAI) with synthetic biology (Synthetic Biology, SB) techniques. From the scientific point of view, the goal is to produce "deep" (i.e. not purely imitative, but at least partially "organizational") synthetic models (in particular, wetware or chemical models) of natural cognitive processes. From the applicative point of view, the results of interest are manifold. They are organized around the development of chemical nano-robots capable of acting effectively, individually or in populational formations, in the fields of health care and of environmental care, dedicated to recovering compromised natural environments.