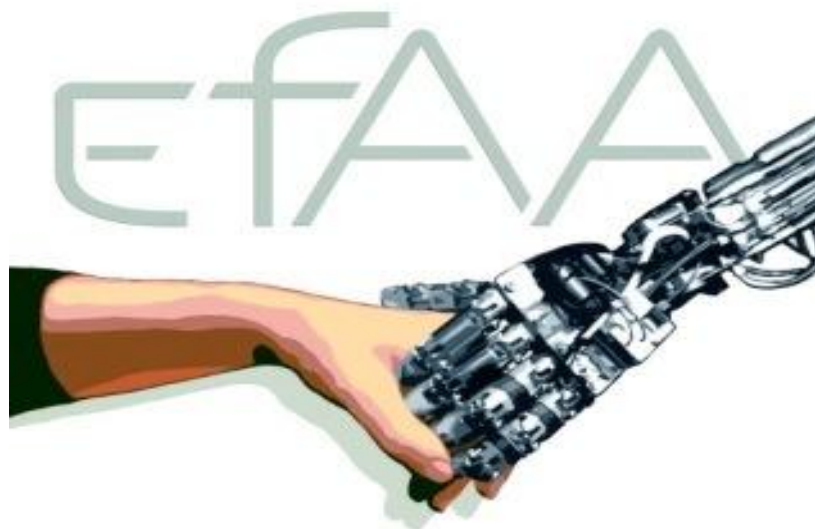




Experimental Functional Android Assistant- EFfAA

Paul Verschure (ICREA-UPF, Barcelona)
Lorenzo Natale (IIT, Genoa)





Let's Play

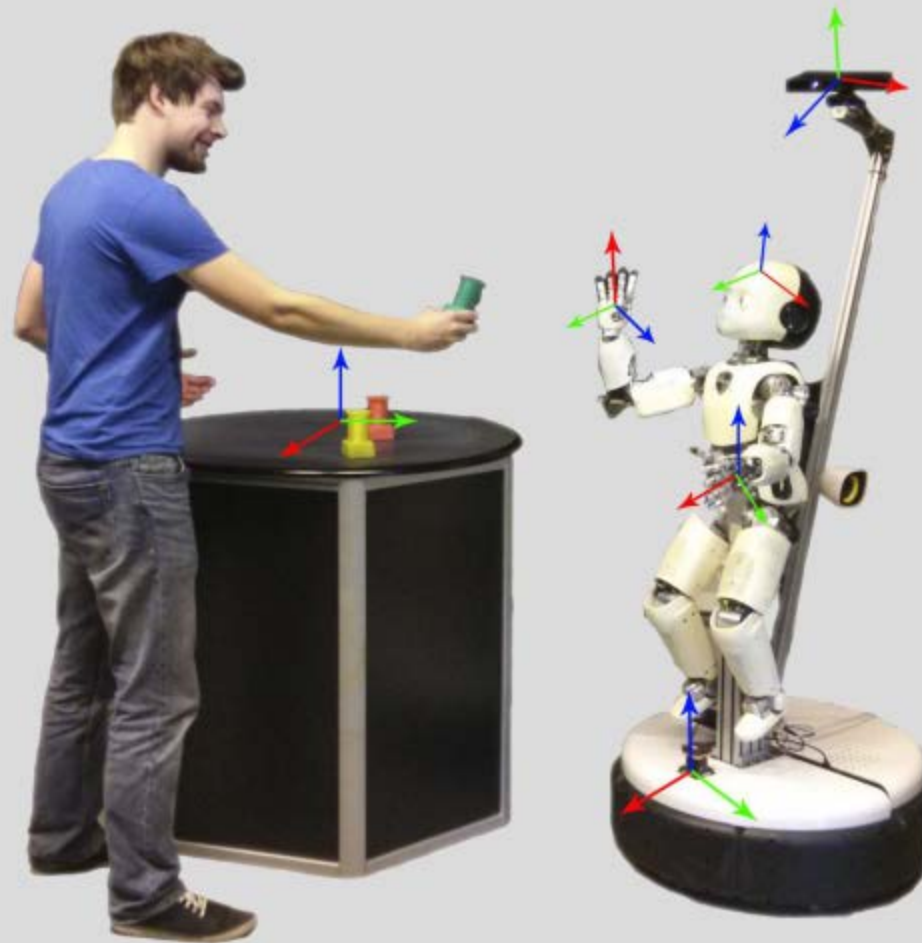
a companion emerges from an integrated
layered cognitive architecture

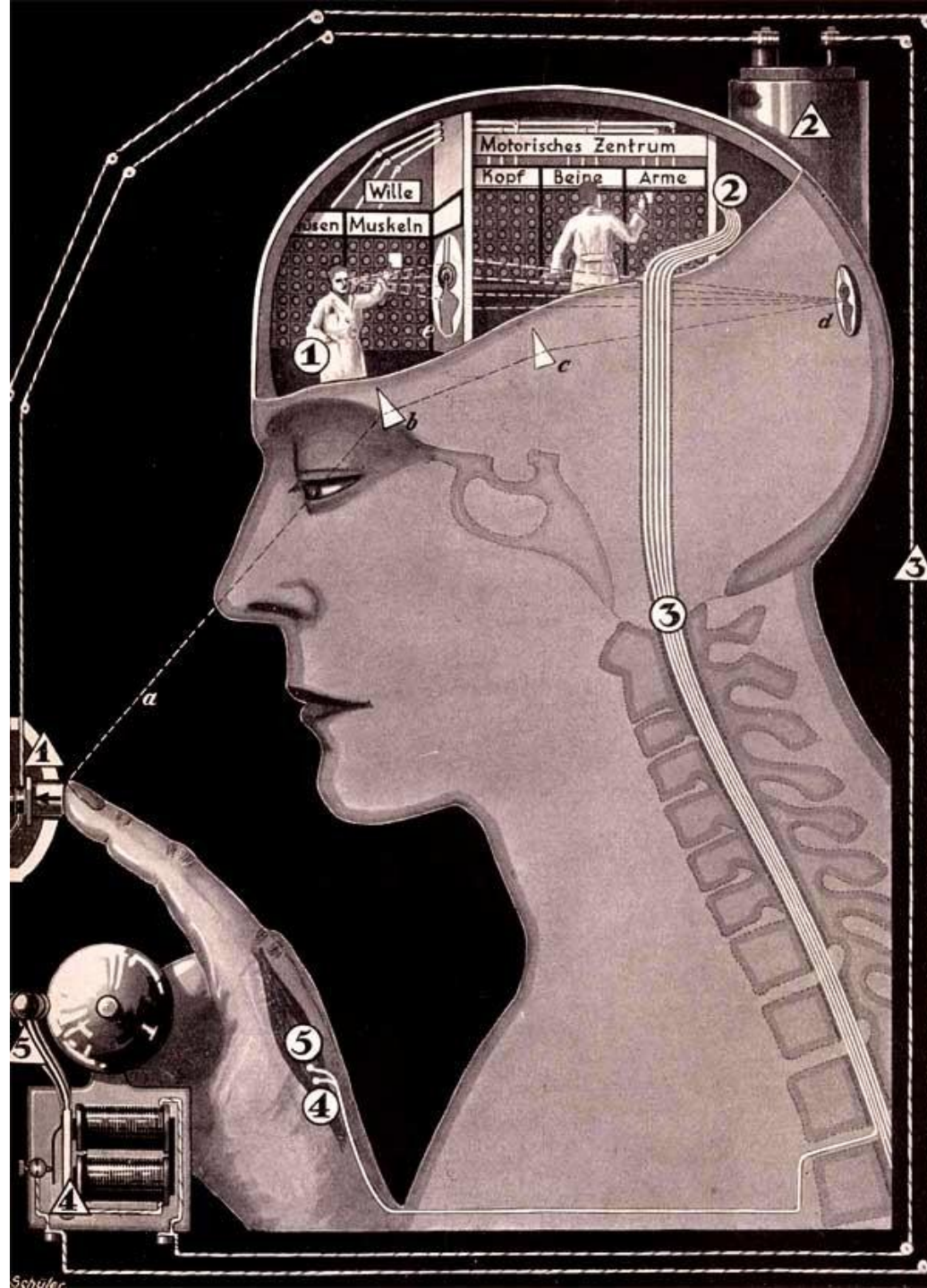
Stéphane Lallée, Vicky Vouloutsi
Ugo Pattacini, Sytse Wierenga
and Paul Verschure

stephane.lallee@gmail.com
specs.upf.edu
efaa.upf.edu

Submission for HRI-2014

Social behavior: Relation & Role

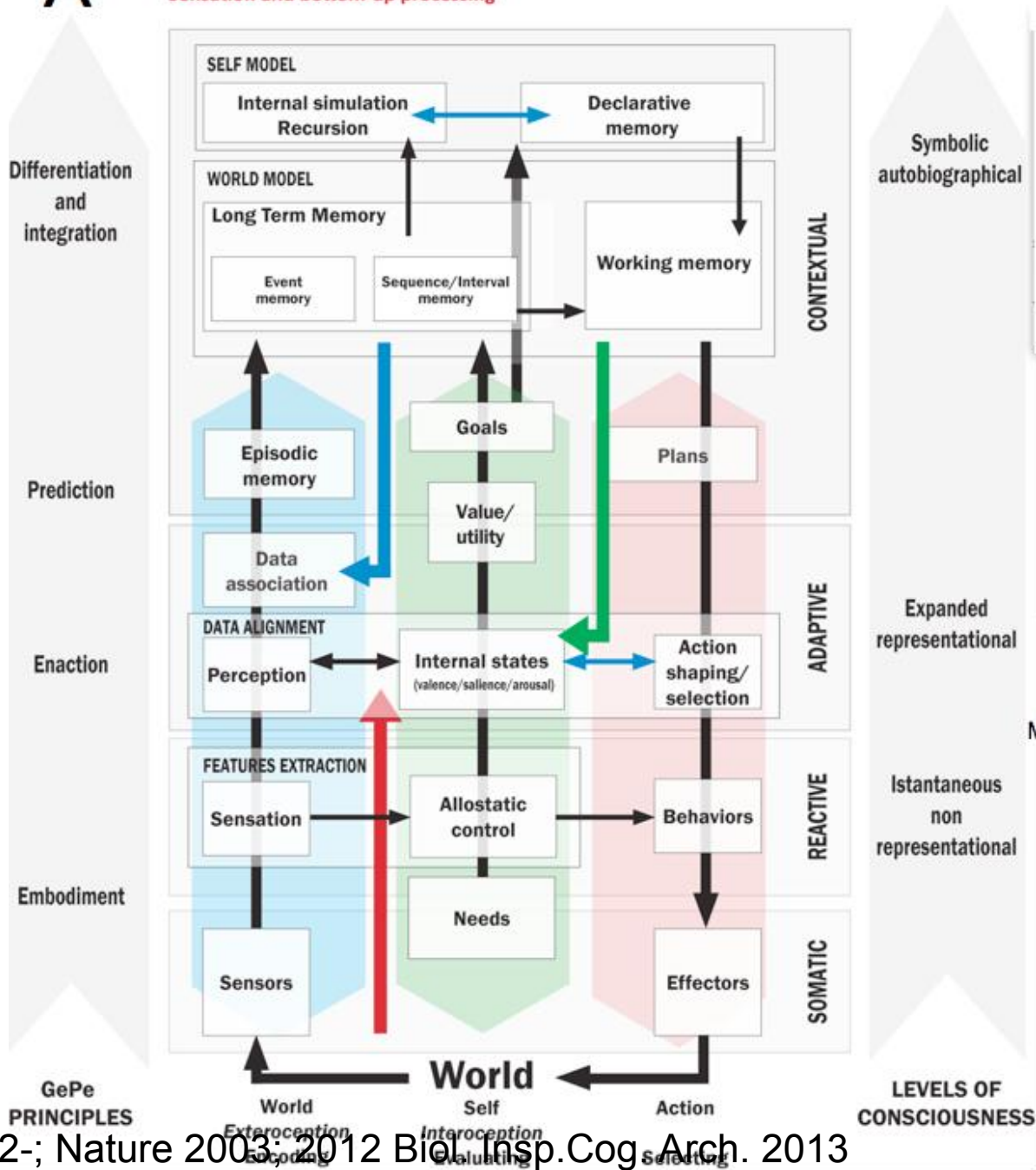




Distributed Adaptive Control

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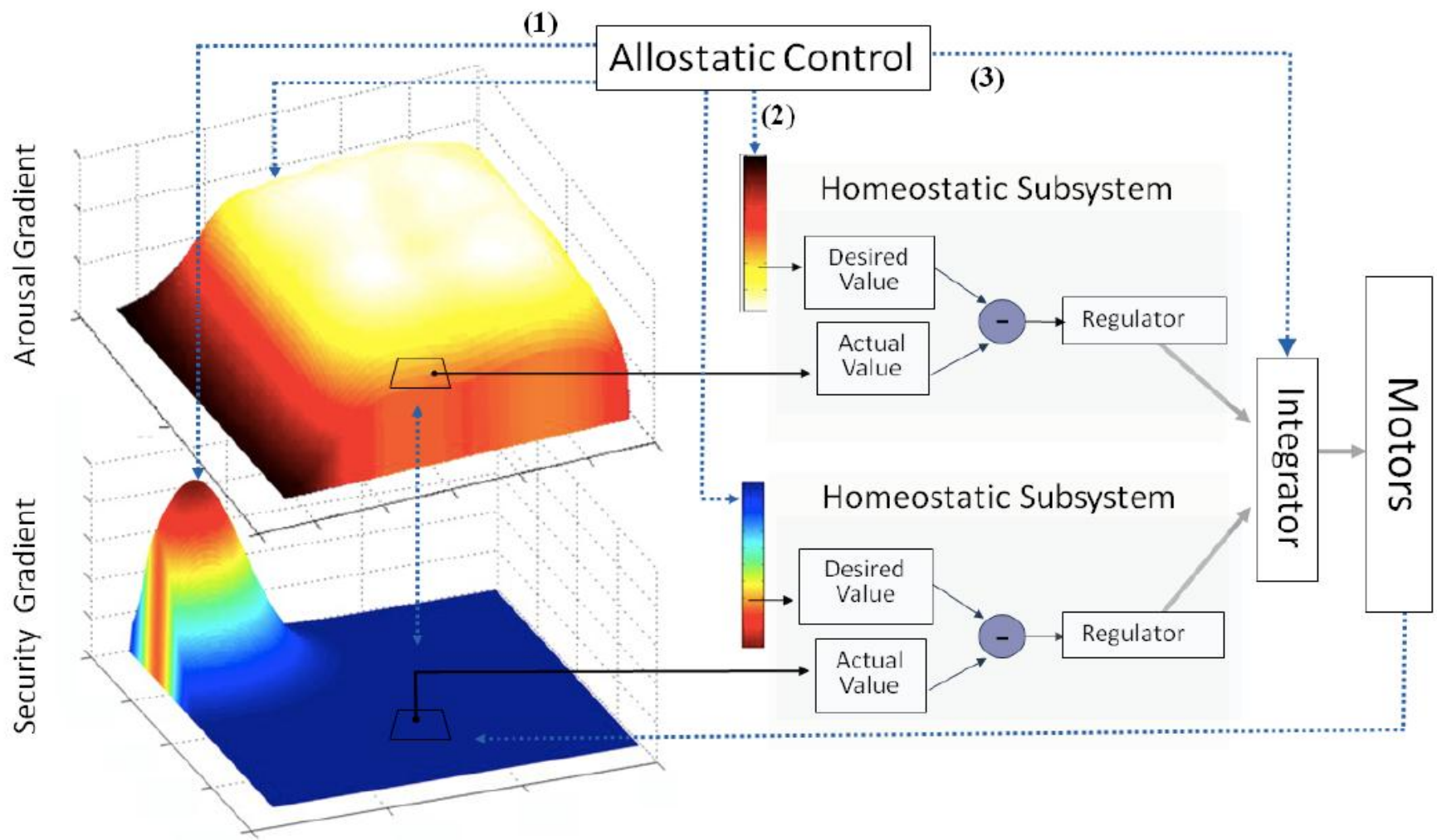
Prediction and anticipation
Sensation and bottom-up processing



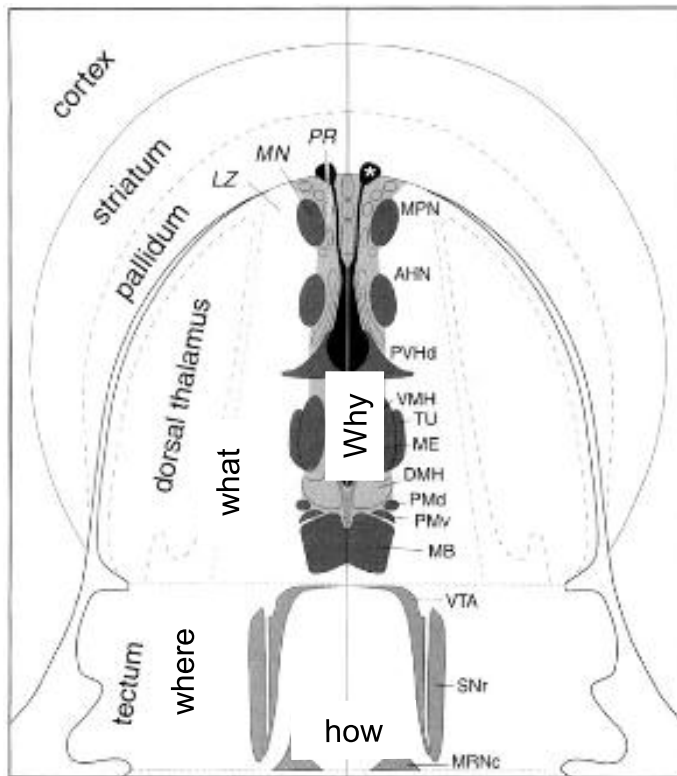
Verschure 1992-; Nature 2003; 2012 Biol. Insp. Cog. Arch. 2013

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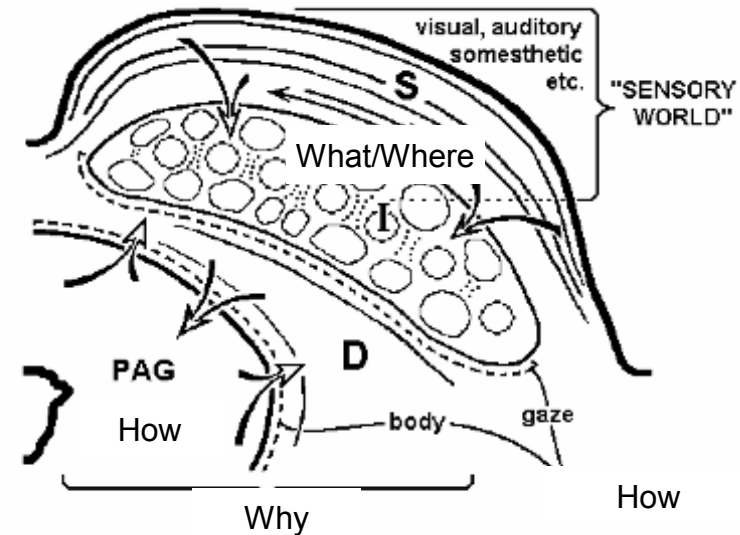
ERF,
Poverato



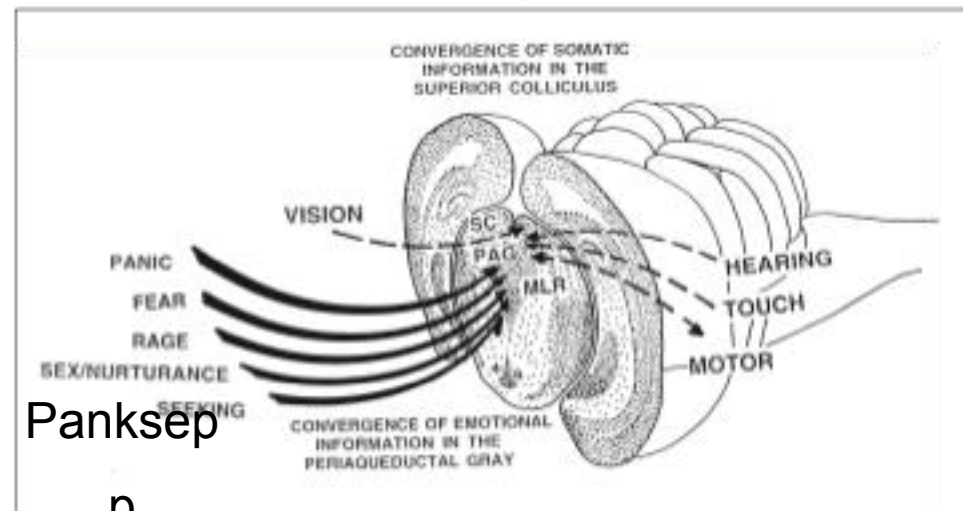
EFAA hypotheses on the neuronal substrate of drive, emotion and personality



Swanson, 2000,
Br.Res.



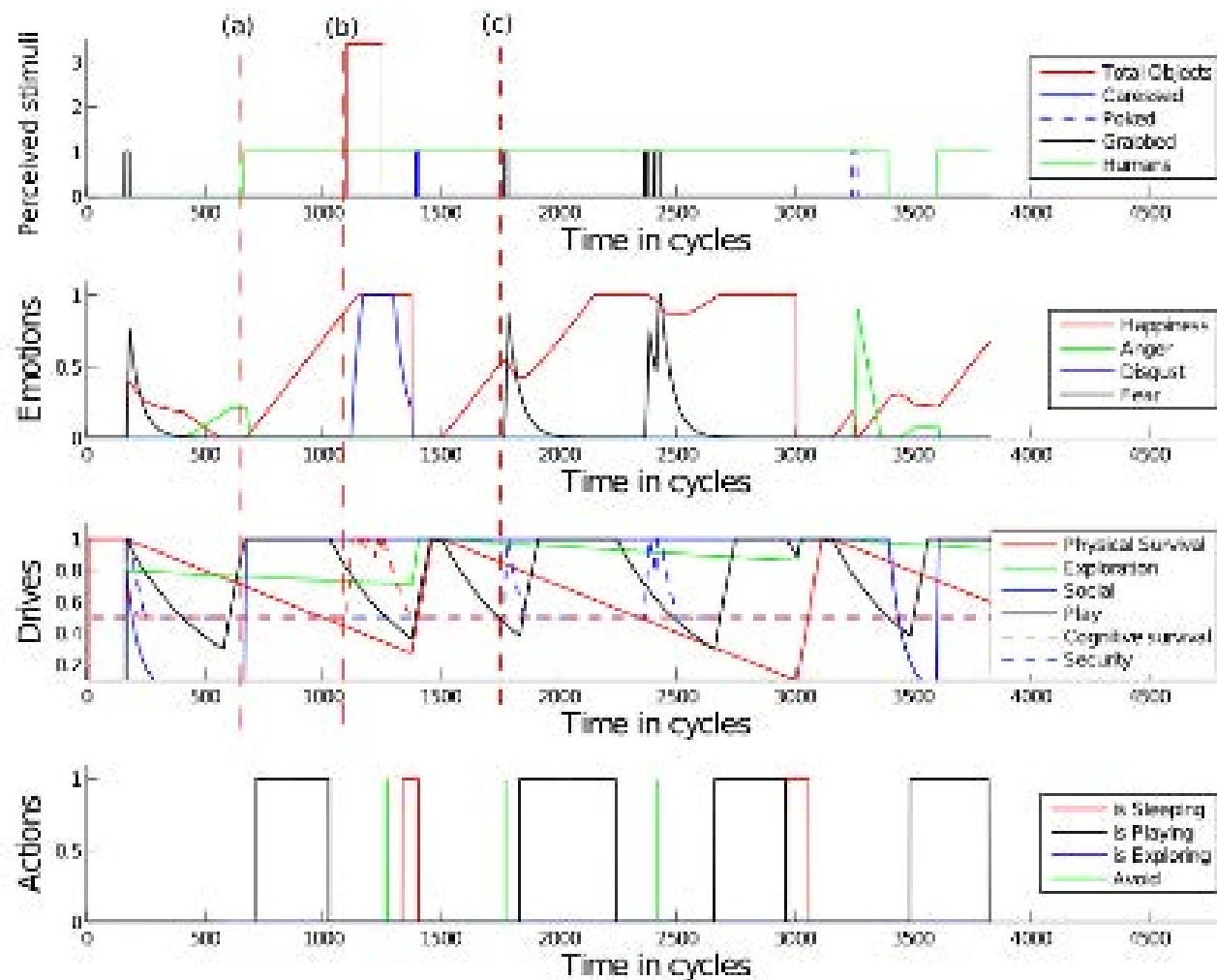
Merker, 2007



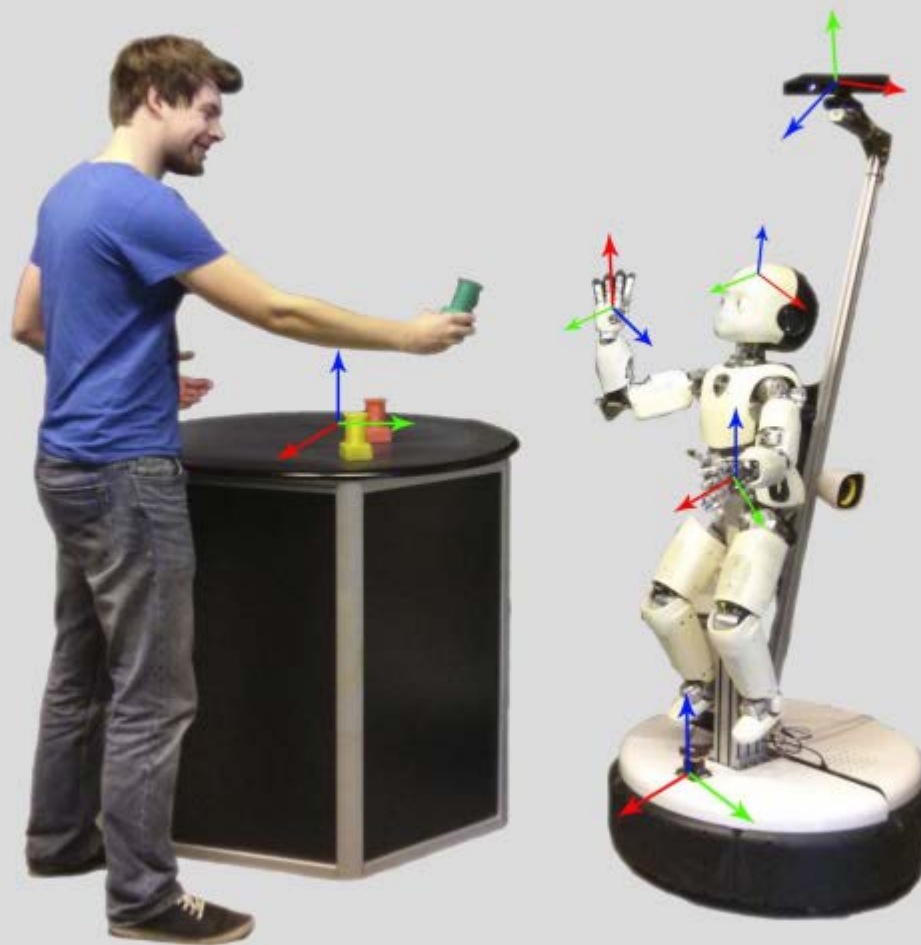
Panksep

ERF,
Roverato





Vouloutzy et al 2013 Living
Machines



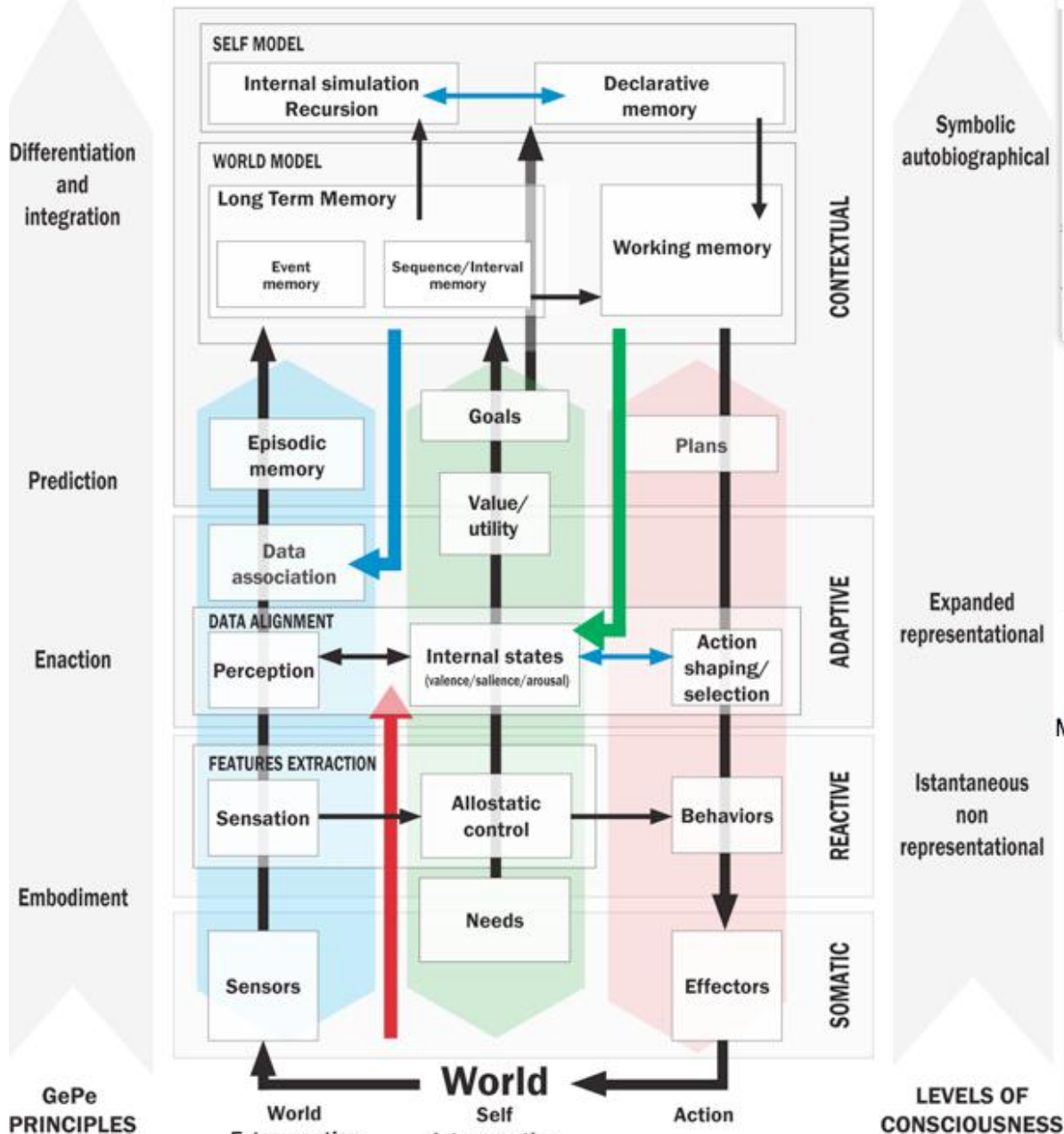
EFAA-iCub-DAC features:

- Compliance
- Touch
- Multiple frames of reference
- Navigation
- Reaching/grasping
- Learning
- Face/gesture recognition
- Counter current attention
- Shared attention
- Mind reading
- Natural language interaction
- Autobiographical memory
-

Distributed Adaptive Control

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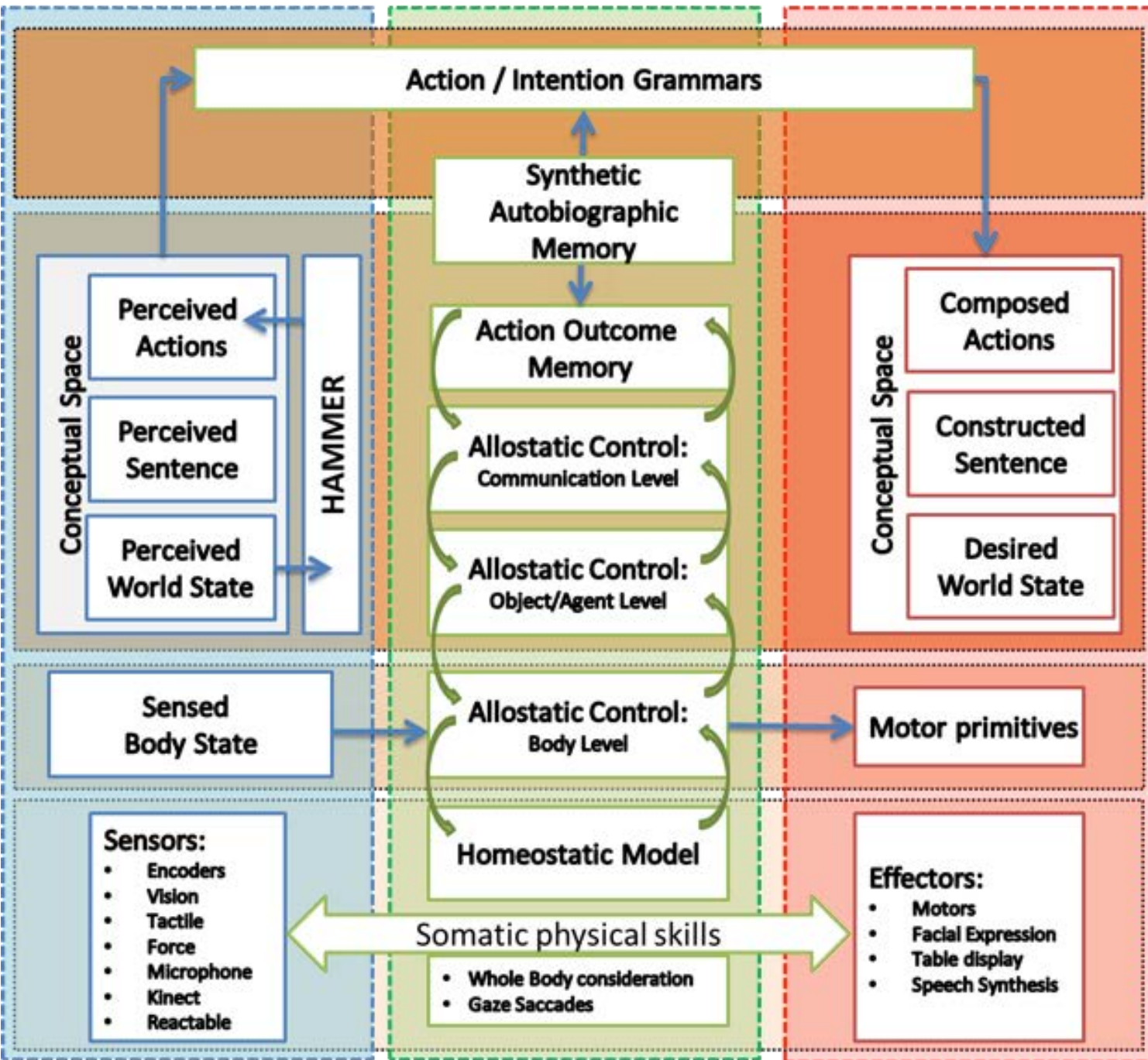
Prediction and anticipation
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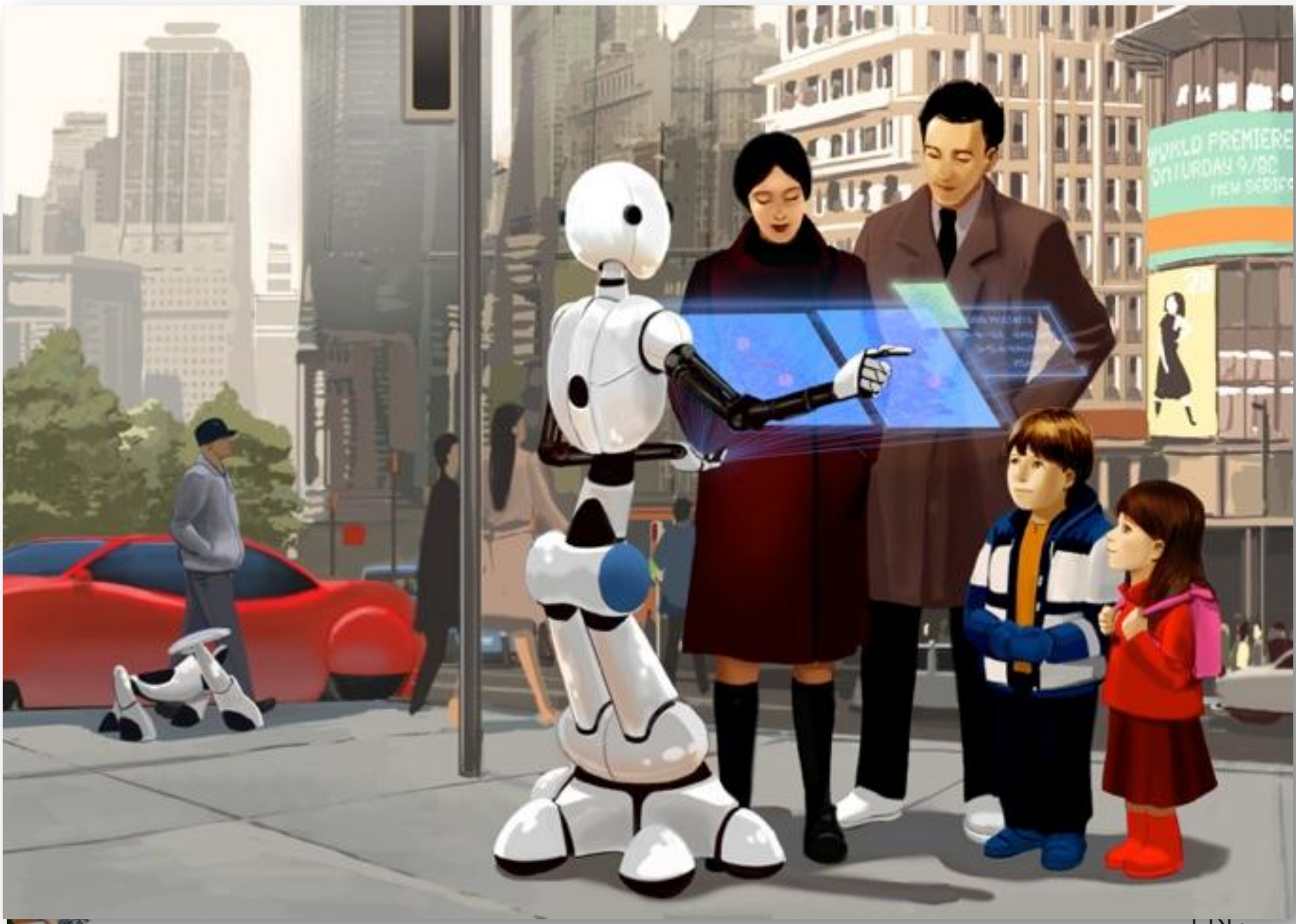
Verschure 1992-; Nature 2003, 2012 Biol. Insp. Cog. Arch. 2013

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