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Séminaire ISIR

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Vendredi 06 Décembre 2013 à 10h00

Campus Jussieu, 4 place Jussieu, Paris
Pyramide ISIR, 56/65, niveau Jussieu, sale de réunion H20

Grounded Cognition for Human-Robot Interaction: Some Perspectives

Par Séverin Lemaignan, EPFL

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What does "robotic cognition" actually mean in the context of human-robot interaction? To answer this question, I will present some recent perspectives on situated interaction, with keywords such as "situation assessment", "symbolic knowledge management", "mutual task planning", "theory of mind", "perspective taking" or "natural dialogue grounding". I will discuss these topics and some of their experimental results.

I will then propose a few paths to explore to go further into complex but natural interactions: how to assess cognitive skills in a sound way? how to interleave geometric, temporal and symbolic reasoning? what are "interaction contexts" and how relevant are they to us? what are the missing pieces to sustain long-term interaction?

Séverin Lemaignan is currently post-doctoral fellow at EPFL, Lausanne, Switzerland, working on human-robot interaction applied to education. In 2012, he defended his PhD thesis on knowledge management for human-robot interaction, jointly prepared at TUM, Munich and LAAS-CNRS, Toulouse. He also holds a joint engineering degree from Karlsruhe Institute of Technology and Arts et Métiers ParisTech.

Sous la co-tutelle de