

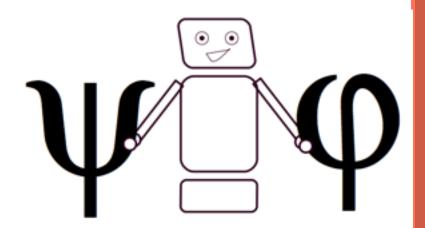
Human-Robot Joint Action

Refining the understanding of joint action through an interdisciplinary perspective

September 19th 2018, Paris







Joint Action for Human-Robot Interaction

JointAction4HRI







Consortium



LAAS-CNRS (Toulouse)

- Rachid Alami (coordinator), DR CNRS
- Aurélie Clodic, IR CNRS
- Amandine Mayima, PhD student



Institut | Nicod

Institut Jean Nicod (Paris)

- Elisabeth Pacherie, DR CNRS
- Víctor Fernández Castro, PostDoc (will be at LAAS next year !)

CLLE (Toulouse)

- Michèle Guidetti, Professor
- Hélène Cochet, Lecturer
- Kathleen Belhassein, PhD student (co-advised with LAAS)











Context



- In a foreseeable future, humans and robots are set to act together and even to collaborate.
- All the agents concerned, both the human AND the robot, will have to build and to maintain, co-constructively, and as long as necessary, the collaborative process and relationship that come along with the task, thus allowing its joint execution.
- Such a process must be flexible, adaptable enough, so any of the agents, human or (even) robots, could make mistakes, fail locally, speed up or slow down, change their "mind", modify their decisions, etc., along the way, without undermining the interaction.
- => Build a solid and comprehensive theoretical framework







Objectives



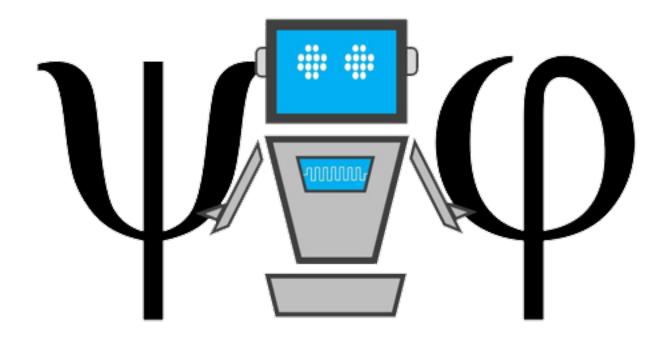
- Identifying the elements (and their interactions) that allow the establishment and maintenance of mutual understanding between a human and a robot in a collaborative task
- Modeling the notion of commitment that structures the relationship between two interacting agents
- Elaborate and test robotics architecture design for collaboration with humans











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Program 1/2

9:45 On a Multidisciplinary Analysis of Joint Activity Kathleen Belhassein - LAAS-CNRS & CLLE LTC

10:15 Discussion Moderator: Michele Guidetti

10:45 Coffee break

11:15 Natural Interactions: Theoretical and Motor Aspects of JointAction4HRI Stephen Butterfill - University of Warwick

11:45 Discussion Moderator : Hélène Cochet

12:00 Narrative structuring of experience for extended social interactions in humans a robots ET FINANCE A

Peter Ford Dominey - INSERM & CNRS

12:30 Discussion Moderator: Rachid Alami

Program 2/2

14:00 Joint Actions, Commitments and Need to Belong Víctor Fernández Castro - University of Granada / Jean Nicod Institute

14:35 Discussion Moderator: Elisabeth Pacherie

14:45 Ingredients of Joint Action: A View from Cognitive Psychology Guenther Knoblich - Central European University

15:15 Discussion Moderator : Aurélie Clodic

15:30 Coffee break

16:00 Panel

17:30 End

