Lydia Ould Ouali<sup>1</sup>, Charles Rich<sup>2</sup> and Nicolas Sabouret<sup>1</sup>

LIMSI-CNRS, UPR 3251, Orsay, France Université Paris-Sud, Orsay, France {ouldouali, nicolas.sabouret}@limsi.fr Worcester Polytechnic Institute Worcester, Massachusetts, USA rich@wpi.edu

Abstract.

## 1 Introduction

Theory of mind (ToM) is critical for success in social interaction. social agents need ToM to successfully interact with humans. Principal challenge with ToM is insincerity about user preferences and user goal.

## 2 Background ToM:

Modular theory, simulation theory, theory-theory, and executive function theory.

## 3 Model of ToM