Wednesday 31 August 2016
10h00 – 12h00
UT3 Paul Sabatier, IRIT, Salle des Thèses

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Advanced human robot social interaction: goals, challenges and approaches

Abstract: In any situation in which the robot works in contact with humans, interaction and mutual understanding play a crucial role. Therefore we argue that the robot must be capable of learning how to interact with humans in a natural way, to be able to understand humans’ emotional state, as well as basic non-verbal communication signals. This, for example, will allow naïve users to interact with the robot immediately, under any circumstances, without extensive training. But, especially, this will give the robot the means to calibrate its response while interacting with humans during a specific task. HRI challenges can thus be seen as a combination of active perception and dynamic cognitive processing. How can we solve the challenges that this field presents? Basically I will be talking about the major problems we encounter in HRI and the approaches we are exploring.