Erasmus + programme
European Master on Advanced RObotics Plus
Agreement number 2014-2616/001-001
Coordinated by Ecole Centrale de Nantes

**THESIS PROPOSITION**

Please fill out all requested data and send back the form to emaro-adm@irccyn.ec-nantes.fr before 9th May.

Subject: Strategies and algorithms for the assistance to driver in navigation and positioning for loading and unloading, in a robotic vehicle for freight delivery in urban centres

Supervisor(s): Rezia MOLFINO, Matteo ZOPPI, Toshiyuki MURAKAMI

Laboratory: PMAR Robotics. MURAKAMI lab

Field of research: Mobile robotics. Human-robot interaction

Motivations and general objectives: At the date of start of the thesis a major EU project in FP7, FURBOT, will have been finished. A prototype of robotized vehicle with drive assistance and autonomous or partially autonomous functions will have been developed, built and tested in relevant urban scenarios. The following step of exploitation of the project results is the improvement of the algorithms and functionalities of the vehicle: the research has this overall target. The work comprises development and setup of skills and related algorithms for the robot, their implementation in the prototype, major build evidence of the performance of the algorithms and methods proposed.

Signature of the local coordinator

2016/06/03