

SpeechPizza

Thursday, 14 September 2023

12:00 - 13:00, D011

lcis.grenoble-inp.fr

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(IGR LCIS, Responsable services informatique et technique)

Title: ROS/Gazebo: a software platform for robotic development and simulation

Abstract: ROS (Robotic Operating System) is a reference in academic and industrial world for developing robots components and integrate them into embedded system or in simulation. It is an agent oriented C++/Python framework, and it is open source. Gazebo is a tool to simulate robot physical environment. It facilitates/accelerate development and testing robot components (node). ROS/Gazebo usage seems to be relevant for the LCIS, that why I took time to study it and make some tests. I will present you these tools and how to use them in the lab.

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(3rd year PhD candidate within CTSYS team, supervised by O.K. Aktouf and I. Parissis, in collaboration with Univ. of Danang, Vietnam)

Title: Test model for context-aware mobile applications

Abstract: Nowadays, mobile smartphones are being widely used. They allow users to access a variety of services provided by mobile applications (mobile apps). These services are location-based services, meaning that a user's location is taken into consideration for service provision. Testing these mobile apps is challenging due to the complexity of context variability (i.e., a user's location). Current testing approaches cannot efficiently handle dynamic variability of mobile apps. To solve this problem, this paper introduces a model-based testing approach for mobile apps that uses a combination of a Bigraph-ical Reaction System (BRS) model and a Dynamic feature Petri net (DFPN) for automatic generation of test cases. Our model addresses the mobile app testing challenges related to the context of mobile apps, and especially to changes in the context location.

The science behind pizza!

