

Application Form / Workshop Description



Session Title: PROTEUS (Platform for RObotic modeling and Transformations for End-Users and Scientific communities): from the scenario model to the targeting on the robot.

(Preferred) time of workshop:

6 March, 2 hours slot in the morning or afternoon

Organiser(s):

Cyril Novales cyril.novales@bourges.univ-orleans.fr

Bruno Patin bruno.patin@dassault-aviation.com

Motivation and objective:

This workshop is addressed to European Research Community to present the PROTEUS Project. Its purpose is to link robotic end-users and scientific community through a platform, gathering dedicated, open or proprietary software tools, which permits to develop an entire robotic application from its definition to its targeting (or simulation).

Approach:

The workshop will consist of a presentation of the proteus project and toolkit opened to the robotic community. 2 scientific keypoints are then described: RobotML Modeling and the application targeting on simulators and on robots. The complete chain of robotic application development can integrate open and proprietary software: it allows a robotic designer to build an application from the scenario to the targeting. 4 robotic platforms are presented and proposed to be used by the community: for each of them, a laboratory supports the use by the challengers of various mobile robots in specific areas. A final discussion will close the workshop.

Agenda of the workshop:

00:00 – 00:05 - Introduction by speakers

00:05 – 00:30 - Presentation of the platform PROTEUS

00:30 – 01:00 - « RobotML: a Robotic Modeling language and associated modeling tools

01:00 – 01:20 - “Proteus Toolkit: Automatised code generation, simulation and robot targeting”

01:20 – 02:00 “4 Robotic platforms open to EU robotic community” and discussion

Speaker(s):

Bruno Patin, Dassault Aviation,

Saadia Dhouib, LIST Laboratory, CEA Saclay,

Serge Stinckwich, GREYC, University of Caen,

Clement Fouque, Pascal Laboratory, University of Clermont-Ferrand,

Cyril Novales, PRISME Laboratory, University of Orléans.

Further information:

PROTEUS public website : <http://www.anr-proteus.fr>

Planned follow-up:

To congregate the future participants for the 4 open robotic platform, that will take place in France in september 2012.

To promote the use of a new open toolkit to develop robotic applications based on standard middlewares.

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Please reply to:

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The European Robotics Forum will take place from 5-7 March 2012 in Odense, Denmark, hosted by the Danish Technological Institute (DTI). More than 300 robotics researchers from industry and academia, as well as entrepreneurs and public investors are expected to discuss the latest developments, research challenges and business opportunities for European robotics. This year's theme of the European Robotics Forum is "European Robotics towards new horizons".