

# Workshop on Models and Languages for Robotics

Paris Jussieu – October the 1<sup>st</sup> of 2012

Salle 304 – Tour 65 - 2e étage

9.00: Welcome and Gathering of presentation

9.15 - 17.00:

This workshop will emphasize on the 5/6 phases model: Development process, functional design, component design and development, system design and development, deployment and runtime.

All Partners will present in a few slides (about 10 minutes) their view on the topics mentioned:

- . Davide Brugali for BRICS : “an overview of our current activities related to the robot development process”
- . Christian Schlegel: “Separation of roles”
- . Herman Bruyninckx “Toward (some) MDE-Based standards for Robotics - The current status of the BRICS component model”
- . Sylvain Joyeux for Rock community.
- . Hugo Garcia for BRICS: "lessons learned about MDE for robotics"
- . Azamat Shakhimardanov: “Deployment DSL in Robot Architectures”
- . Saadia Dhouib for Proteus: “RobotML Platform”
- . Jan Broenink: “Model-driven design support using co-simulation”
- . Felix Ingrand: “Functional Modules Specification and The Versatility of Template Based component generation (from pocolib to ROS Comm and BIP)”

During/after each presentation, a discussion will be held about the tackled topics. A chairman for each topic will note the orientation/choice issued from the discussion. Phase by phase, we will 'close' (almost) each topic by completing a dedicated report/road map that will contain the different definitions, the choices, the lacks, the orientations...

Chair for each topic:

- Development process: Davide Brugali
- Functional design: Herman Bruyninckx
- Component design and development: Christian Schlegel
- System design and development: Saadia Dhouib
- Deployment, runtime: Sylvain Joyeux

The meeting will finish by a discussion about a proposal:

- Future project : Bruno Patin - participation to a common proposal for the last FP7 call or Horizon2020?

*(The lunch break will be from 12.00 to 13.00)*

Confirmation of presence (today by mail) :

- Azamat Shakhimardanov and Gerhard Kraetzschmar - BSRU
- Davide Brugali - Univ Bergamo DIIMM
- Sylvain Joyeux - DFKI
- Bruno Patin - Dassault Aviation
- Nicolas Morette and Cyril Novalés - Univ Orléans Prisme
- Saadia Dhouib - CEA LIST
- Jan Broenink and Robert Wilterdink - Univ Twente Robotics and mechatronics
- Christian Schlegel - Univ Ulm
- Mohamed Walid BenGhezala - CEA LIST
- Mickal Ziane and Tewfik Ziadi - Univ P&M Curie LIP6
- Markus Klotzbuecher, Hugo Garcia and Herman Bruyninckx - Univ of Leuven PMA
- Serge Stinckwich – Univ Caen UMI UMMISCO
- Max Da Silva – CEA LRI
- Felix Ingrand and Anthony Millet – LAAS Toulouse

(cannot attend to the workshop : Alex Lotz, Nico Hochgeschwender and Sebastien Gérard)