In conjunction with MODELS 2010 Conference
http://models2010.ifi.uio.no/index.shtml

Supported by Artist NoE and OMG

1st International workshop on Model Based Engineering for Robotics RoSyM.

Oslo, Norway, 5 October 2010

http://www.artist-embedded.org/artist/RoSym-2010

Important Dates

Submission deadline:	26 July, 2010
Notification acceptance:	25 August, 2010
Final version papers:	15 September, 2010
RoSym Workshop:	4-5 October, 2010

Organisers Committee

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Davide Brugali	*Univ of Bergamo, Italy*
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Toby McClean	*ZeligSoft, Canada*

Submission Guidelines

Authors have to apply by sending a paper/abstract (4-10 pages) in PDF or PS. The paper must conform to the Springer LNCS formatting guidelines: http://www.springer.com/computer/lncs (the same format of the Conference, see conference website for more information).

Authors of accepted papers shall prepare and submit a final version of their paper. The deadline for these final versions is 15 Sept 2010. Each accepted paper will be electronically published in the Workshop website and

Goals

The aim of the workshop is to bring together researchers, industrials and tool developers to discuss on the usage of model-based engineering to robotics application in different domains as well as major issues to use this technology. A significant portion of time will be reserved for discussions.

Topics

The concrete topics of the workshop are:

- Model-based design of robotics and autonomous systems, including dedicated modelling language for robotics (which may be extensions of existing languages as well)
- Safety, dependability and certification of robotics systems,
- Test, validation and simulation of the autonomous behaviour of the robot,
- Model-based quantitative analysis techniques, including performance optimisation techniques for robotics
- Model-based processes and methods for robotics, including the investigation and classification of activities adjusted to robotics
- Exploration and assessment of how existing MBE solutions have been used or experimented in robotics
- Evaluation techniques and metrics for assessing effectiveness of MBE robotics system prototype.
- Examples of "early adopters" of MDE for robotics
- Unique challenges in robotics that MDE might help overcome
- MDE concepts and techniques that are