

## UBIVERTEX - Letter of Intent

Institute/Company

Name: **Delft University of Technology** Country: **Netherlands**

Activity domain: **Higher education and research**

Number of employees:  <50  <250  > 500

Name of the department/research team: **Parallel and Distributed Systems**

Scientific contact

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Phone: **+31 15 278 3853**

Challenge descriptions:

In the *Infrastructure Virtualization for e-Science (IV-e)* project, which is part of the Dutch COMMIT research program in computer science, the PDS group will investigate scheduling and resource management in clouds, and more generally, in virtualized infrastructures. The research to be performed consists of two parts:

1. the design, implementation, and analysis of generic scheduling and resource management solutions in clouds. For this purpose, the KOALA grid scheduler (see [www.st.ewi.tudelft.nl/koala](http://www.st.ewi.tudelft.nl/koala)), designed by the PDS group in Delft, will be extended and used.
2. The proposed generic scheduling and resource management solutions will be tested with actual applications and application types from a number of selected applications domains, such a health and information retrieval.

Type of commitment (internship, Phd grant, engineering staff):

- the PhD students in the IV-e project will perform experiments on the UBIVERTEX system

Number of persons involved in these challenges:

- 2 PhD students+supervisor

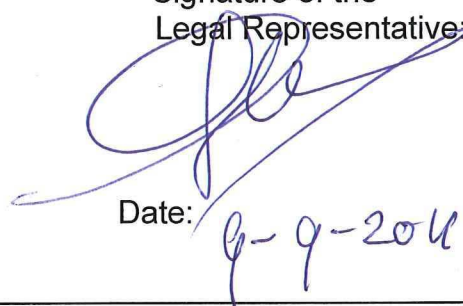
Signature of  
Scientific Contact:



Date:

9 sept. 2011

Signature of the  
Legal Representative:



Date:

9-9-2011