

## UBIVERTEX - Letter of Intention

Institute/Company

Name: **ICAR-CNR**

Country: **Italy**

Activity domain: Computer Science and Engineering

Number of employees: ☐ <50    ☒ <250    ☐ > 500

Name of the department/research team:

Scientific contact

Name: **DOMENICO TALIA**

Mail: **talìa@icar.cnr.it**

Phone: **+39 0984494726**

Challenge descriptions:

ICAR-CNR is a research institute of CNR working on HPC architectures and applications. By using the UBIVERTEX, ICAR-CNR research teams can implement and run large-scale experiments in the areas of complex systems simulations, parallel bioinformatics algorithms and applications, large-scale data mining and knowledge discovery systems, and decentralized peer-to-peer network simulations. All these research themes requires a massively parallel platform with large storage facilities where to run complex applications composed of a large number of concurrent threads that access data in a distributed way.


The UBIVERTEX platform can be helpful for our research activities that cannot be performed on convention systems where distributed and/or parallel algorithms require very long execution times that are not acceptable. By exploiting a full control and monitoring of the physical nodes of the platfrom, its storage and network facilities, the ICAR-CNR researchers will be able to perform specific experiments, focusing either on a subsets of its elements or considering all the available resources of the UBIVERTEX infrastructure.

Type of commitment (internship, Phd grant, engineering staff):  
Research staff, PhD grants.

Number of persons involved in these challenges: **35**

Signature of  
Scientific Contact:

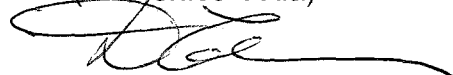
(Domenico Talia)



Date: 07/09/2011

Signature of the  
Legal Representative:

(Domenico Talia)



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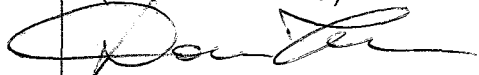
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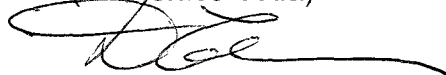
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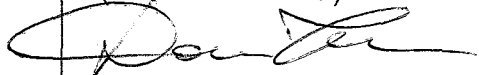
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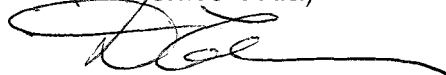
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