

Conference Agenda

Monday 24th May

14:30 – 16:00 **Opening session**

António Cunha (Rector of Universidade do Minho)

Alberto Proença (IBERGRID'2010 Conference Co-Chair)

Mário Campolargo (Director Emerging Technologies and Infrastructures, DG-INFISO/F EC)

José Manuel de Labastida (Rep. Minister of Science and Innovation, Spain, DG Research)

José Mariano Gago (Minister of Science, Technology and Higher Education, Portugal)

16:00 – 16:30 *Coffee Break*

16:30 – 17:30 **Advanced Computing & e-Science**

Luís Magalhães (President of the Agency for the Information Society, UMIC, Portugal)

Vicente Hernandez (Scientific Resp. for the e-Science Program, Spain)

19:00 – 20:30 **Welcome Reception**

Bom-Jesus do Monte

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Tuesday 25th May

09:00 - 09:10 **Welcome Address**

09:10 - 10:00 **Theme: EGI / EGEE / NGI**
Chair: Jorge Gomes (LIP)

Keynote Talk

EGI.eu The European Grid Initiative
Isabel Campos Placencia

10:00 - 10:40 **Paper Contributions**

The Grid-Ireland National Grid Infrastructure

John Walsh, Brian Coghlan

Ibergrid Transition to EGI

Javier Lopez Cacheiro, Goncalo Borges, Jorge Gomes, Mario David, Hugo Gomes, Carlos Fernandez, Alvaro Simon, Esteban Freire, Ruben Diez, Isabel Campos, Alvaro Lopez, Pablo Orviz

10:40 – 11:00 *Coffee Break*

11:00 - 12:30 **Parallel Session 1A: EGI / EGEE / NGI**

Paper Contributions

Chair: Raúl Ramos (Ceta-CIEMAT)

Provisioning of Grid Middleware for EGI in the framework of EGI-InSPIRE

Mario David, Goncalo Borges, Jorge Gomes, Isabel Campos, Alvaro Lopez, Pablo Orviz, Javier Lopez Cacheiro, Carlos Fernandez and Alvaro Simon

The Metrics Portal: A tool to get statistics about EGEE operations

Alvaro Simon, Esteban Freire Garcia, Javier Lopez Cacheiro, Carlos Fernandez Sanchez, Ruben Diez Lazaro, Pablo Rey Mayo and Sergio Diaz Montes

Parallel Job Support in the Spanish NGI

Enol Fernandez del Castillo

The road to Production: SGE Integration Process with CREAM-CE

Esteban Freire Garcia, Alvaro Simon Garcia, Javier Lopez Cacheiro, Carlos Fernandez Sanchez, Ruben Diez Lazaro, Pablo Rey Mayo, Sergio Diaz Montes and Goncalo Borges

11:00 - 12:30 **Parallel Session 1B: Regular Communications**

Paper Contributions

Chair: Aurelio Rodriguez (CESGA)

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Grid Prototype to Support Cancer of Breast Diagnostics in Clinic Practice

Jose Salavert Torres, Cristina Maestre Urbano, Damia Segrelles Quilis, Ignacio Blanquer Espert, Vicente Hernandez Garcia, Rosana Medina and Luis Marti Bonmati

EGEE site administration made easy

Bruno Oliveira, Antonio Pina and Alberto Proenca

Grid Computing for Breast Cancer CAD. A Pilot Experience in a Medical Environment

Raul Ramos, Jose Miguel Franco Valiente, Jorge Sevilla, Naimy Gonzalez de Posada, Noel Perez Perez, Miguel Angel Guevara Lopez, Mario Augusto Pires Vaz, Joana Loureiro and Isabel Ramos

Automated endoscopic capsule analysis using a Grid computing environment

Ildio C. Oliveira, Luis Alves, Eduardo Dias, David Pacheco, Sergio Lima, Joao Barros, Miguel P. Monteiro, Jorge A. Silva, Jose Maria Fernandes, J. P. S. Cunha and Antonio Sousa-Pereira

12:30 - 14:30 *Lunch*

14:30 - 16:10 **Theme: e-Science in Nanotechnology**

Chair: Marta Ramos (U. Minho)

Keynote Talks

The Impact of Nanosciences in Today's World and INL

Jose Rivas

Where Nanoscience and e-Science Meet

Marshall Stoneham

16:10 - 16:30 *Coffee Break*

16:30 - 18:00 **Parallel Session 2A: e-Science in Nanotechnology**

Paper Contributions

Chair: Jorge Barbosa (U. Porto)

Grid computing simulation of superconducting vortex lattice in superconducting magnetic nanostructures

Manuel Rodriguez-Pascual, David Perez de Lara, Elvira M. Gonzalez, Alicia Gomez, Antonio J. Rubio-Montero, Rafael Mayo and Jose Luis Vicent

Theory of doping graphene

Hugo Pinto, Robert Jones, Jon Goss and Patrick Briddon

SMNanoS: Submitting and Monitoring Nanoelectronic Simulations in the VO-MOSFET

Raul Valin, Natalia Seoane, Antonio Garcia-Loureiro, Manuel Aldegunde and Javier Lopez Cacheiro

Parallel Computing and Protein Design

Leonor Cruzeiro and Paulo A. Lopes

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16:30 - 18:00 **Parallel Session 2B: Regular Communications**

Paper Contributions

Chair: Luís Alves (U. Aveiro)

Accounting and Billing of Software Licenses in a Location Independent Manner

David Garcia Perez, Jose Carlos Mourino Gallego and Andres Gomez Tato

Storage System Optimization, Improving CPU Efficiency in I/O Bounded Jobs

Ana Y. Rodriguez Marrero and Iban Cabrillo Bartolome

A platform to support Civil Protection applications on the GRID

Antonio Pina, Bruno Oliveira, Joel Puga, Antonio Esteves and Alberto Proenca

e-NMR gLite grid enabled infrastructure

Nuno Loureiro-Ferreira, Tsjerk Wassenaar, Sjoerd de Vries, Marc van Dijk, Gijs van der Schot, Johan van der Zwan, Rolf Boelens, Andrea Giachetti, Dario Carotenuto, Antonio Rosato, Ivano Bertini, Torsten Herrmann, Anurag Bagaria, Victor Zharavin, Hendrik Jonker, Peter Guntert, Harald Schwalbe, Wim Vranken, Stefano Dal Pra, Mirco Mazzucato, Eric Frizziero, Sergio Traldi, Marco Verlati and Alexandre Bonvin

Wednesday 26th May

09:00 - 09:40 **Theme: e-Science in High Energy Physics**
Chair: Mario David (LIP)

Keynote Talk

Data Management for the LHC Experiments: Requirements and Challenges that drive the gLite Middleware Development

Markus Shulz

09:40 - 10:40 **Paper Contributions**

DIRAC Community Grid Solution

Adrian Casajus Ramo and Ricardo Graciani Diaz

Contribution of the Iberian Grid Resources to the Production of Simulated Physics Events for the ATLAS Experiment

Mohammed Kaci, Gabriel Amoros, Goncalo Borges, Carlos Borrego, Marc Campos, Joao Carvalho, Mario David, Nuno Dias, Xavier Espinal, Alvaro Fernandez, Miguel Gila, Hugo Gomes, Jorge Gomes, Santiago Gonzalez, Alejandro Lamas, Joao P. Martins, Jordi Nadal, Miguel A. Oliveira, Elena Oliver, Carlos Osuna, Andres Pacheco Pages, Juan J. Pardo, Jose del Peso, Jose Salt, Javier Sanchez, Miguel Villaplana and Helmut Wolters

The CMS Iberian Computing Sites performance in the advent of the LHC era

E. Accion, N. Almeida, V. Acin, G. Bernabeu, G. Borges, A. Bria, M. Caubet, N. Colino, M. David, M. Delfino, A. Delgado-Peris, J. Flix, J. Gomes, J. Hernandez, F. Lopez, F. Martinez, J. Martins, G. Merino, M. Oliveira, E. Planas, L. Raposo, F. J. Rodriguez-Calonge, J. Varela

10:40 – 11:00 *Coffee Break*

11:00 - 12:30 **Parallel Session 3A: e-Science in High Energy Physics**

Paper Contributions

Chair: Leonor Cruzeiro (U. Algarve)

Operational experience running the CIEMAT grid site

Antonio Delgado Peris, Nicanor Colino, Jose M. Hernandez, Francisco Javier Rodriguez Calonge and Juan Jose Rodriguez Vazquez

Portuguese Tier-2 readiness

Goncalo Borges, Gaspar Barreira, Mario David, Nuno Dias, Hugo Gomes, Jorge Gomes, Joao Martins and Miguel Oliveira

First tests with Tier-3 facility for the ATLAS experiment at IFIC (Valencia)

Miguel Villaplana, Santiago Gonzalez de la Hoz, Elena Oliver, Jose Salt and Javier Sanchez

Data analysis on the ATLAS Spanish Tier2

Gabriel Amoros, Carlos Borrego, Marc Campos, Alvaro Fernandez, Miguel Gila, Santiago Gonzalez, Mohammed Kaci, Alejandro Lamas, Jordi Nadal, Elena Oliver, Carlos Osuna, Andres Pacheco Pages, Juan J. Pardo, Jose del Peso, Jose Salt, Javier Sanchez and Miguel Villaplana

11:00 - 12:30 **Parallel Session 3B: Regular Communications**

Paper Contributions

Chair: Antonio Garcia Loureiro (U. Santiago)

An OGC/SOS Conformant Client to Manage Geospatial Data on the GRID

Antonio Esteves, Marco Caldas, Antonio Pina and Alberto Proenca

Integral Operator Spectral Computations using PETSc/SLEPc libraries

Paulo B. Vasconcelos, Jose Roman and Filomena D. d'Almeida

Running faster and further together: the AMILOIDE project, the onset of the Portuguese participation on the Ibercivis volunteer computing network

Carlos J. V. Simoes, Alejandro Rivero, Alfonso Tarancon, Fermin S. Sanz, Javier L. Romero, Pedro Abreu, Carlos Manuel, Rui Duraõ, Joao Rosa, Joao Pagaime, Pedro Veiga, Richard M. Jackson, Ana Noronha, Rosalia Vargas, Luis T. Magalhaes, Gaspar Barreira, and Rui M. M. Brito

Custom execution environments in the BOINC middleware

Diogo Ferreira, Filipe Araujo and Patricio Domingues

12:30 - 14:30 *Lunch*

14:30 - 15:30 **Theme: Grid Computing in America Latina**

Chair: Luis Trejo Rodriguez (ITESM, Mexico)

Keynote Talk

Grid Infrastructure in Latin America: EELA-2 and its daughter GISELA

Bernard Marechal

15:30 - 16:10 **Paper Contributions**

The Emerging Virtual Research Communities in Latin America

Luis A. Nunez

Latin American GRID Initiatives: Background, Best Experiences and Ongoing Projects

Luis Trejo Rodriguez

16:10 – 16:30 *Coffee Break*

16:30 - 18:00 **Industrial Track**

Chair: Javier Tobio (CESGA)

Parallel Computing@Microsoft

Przemyslaw Lenkiewicz and Sergio Martinho

Oracle Database Machine

Ricardo Martinez

Supercomputing as a competitive weapon

Jesus Gonzalez

From HPC to Extreme Computing: Innovation without limits

Oscar de Bustos

18:30 – 22:30 **Social Event: Gala Dinner at the Pousada Sta. Marinha (Guimaraes)**

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Thursday 27th May

09:00 - 10:00 **Theme: HPC/PRACE**
Chair: Pedro Alberto (U. Coimbra)

Keynote Talk

Towards a European Supercomputing Research Infrastructure
Sergi Girona

10:00 - 10:40 **Paper Contributions**
OSIRIS: a state-of-the art numerical infrastructure for full scale kinetic modelling of laboratory and astrophysical plasmas with Petascale systems
R. A. Fonseca, P. Abreu, F. Fiúza, M. Marti, J. Martins, S. F. Martins, J. Vieira, V. Decyk, W. B. Mori, L. O. Silva
High Performance Computing for extremely demanding climate modelling
Juan Antonio Anel Cabanelas

10:40 – 11:00 *Coffee Break*

11:00 - 12:20 **Parallel Session 4A: HPC/PRACE**

Paper Contributions

Chair: Ignacio Blanquer (U. Politec. Valencia)

Petascaling of real-world applications: the case of OCTOPUS
Fernando Nogueira

Performance evaluation of HP SFS striping parameters
Jesus Gonzalez Perez, Marta Loureiro, Miguel Pan and Aurelio Rodriguez

Performance Study of Hyper-Threading Technology on the LUSITANIA Supercomputer
Cesar Gomez-Martin, Jose Luis Gonzalez-Sanchez, Javier Corral-Garcia, Angel Bejarano-Borrega and Javier Lazaro-Jareno

11:00 - 12:20 **Parallel Session 4B: Regular Communications**

Paper Contributions

Chair: Paulo Vasconcelos (U.Porto)

Parallelisation Service in the AspectGrid Framework
Jorge Pinho, Matheus Almeida, Miguel Rocha and Joao Sobral

Virtualization and network mirroring to deliver High Availability to Grid services
Alvaro Lopez Garcia and Pablo Orviz Fernandez

Supporting Parallel Tasks with GRID superscalar
Jorge Ejarque, Enric Tejedor, Daniele Lezzi, Raul Sirvent and Rosa Badia

12:20 - 12:30 **Conference Closing Session**

