



CoreGRID

Symposium

2008

August 25-26, 2008

Las Palmas de Gran
Canaria, Spain
In conjunction with





The CoreGRID Network of Excellence
European Research Network on D Foundations, Software Infra-
structures and Applications
for large scale distributed, GRID and Peer-to-Peer Technologies



Information & Communication Technologies

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1 Welcome to the CoreGRID Symposium 2008

CoreGRID Symposia

Grids are revolutionising computing as profoundly as e-mail and the Web revolutionised communications and publishing in the last 15 years. Grids are a crucial enabling technology for Scientific and Industrial development in the decade. Grid, Peer-to-Peer and other types of networked distributed computing and storage technologies, as well as emerging web technologies, have provided new paradigms exploiting distributed resources.

The CoreGRID Network of Excellence (NoE) is funded by the European Commission's 6th Framework Program. It aims at strengthening and advancing scientific and technological excellence in the area of Grid and Peer-to-Peer technologies. The Network is operated as a European Research Laboratory and brings together a critical mass of well-established researchers from 46 institutions.

The annual CoreGRID Symposium aims at being the premiere European event on Grid Computing for the dissemination of the results from European and member states initiatives as well as other international projects in Grid research and technologies. It is organized jointly with the Euro-Par 2008 conference. The CoreGRID Symposium will focus on all aspects of Grid computing including service infrastructures and as such will bring together participants from Research and Industry.

Cantur hotels

- **09:05h** - Arriving in the Campus of Tafira

- **20:00h** - Leaving the Campus of Tafira

Route 2:

- **08:30h** - Leaving from the parking of the Reina Isabel hotel at the "calle Alfredo L. Jones" (Alfredo L. Jones street) *Taking the participants hosted at the Reina Isabel and surroundings*

- **08:45h** - Stop at the Astoria hotel at the "calle Fernando Guanaterme" (Fernando Guanaterme street) *Taking the participants hosted at Dunas Canteras, the Igramar Canteras hotels and surroundings*

- **09:05h** - Arriving in the Campus of Tafira

- 20:00h - Leaving the Campus of Tafira

Euro-Par welcome reception & registration service:

- **17:30h** - Leaving from the parking of the Reina Isabel hotel at the "calle Alfredo L. Jones" (Alfredo L. Jones street) *Taking conference participants*

- **17:45h** - Arriving in the Campus of Tafira

Other Information

The [registration desk](#) will be open from Monday 25th at 9:00 am. Each participant will be given a conference kit. A map of Las Palmas de Gran Canaria and University Campus will also be provided.

[Internet access](#): If you bring your laptop, a free WiFi access will be provided within the conference building. The network is called "europar08".

[Coffee breaks](#): coffee/tea/pastries will be served during the morning breaks and the afternoon breaks. There will be no coffee served before the morning sessions.

[Lunches](#): they will be provided at the University Residence during the whole conference.

Useful websites:

University of Las Palmas de Gran Canaria: <http://www.ulpgc.es/>

Campus Tafira: [http://www.ulpgc.es/index.php
pagina=campus_universidad&ver=inicio](http://www.ulpgc.es/index.php?pagina=campus_universidad&ver=inicio)

CoreGRID Website: <http://www.coregrid.net>

2 CoreGRID Symposium Organization

Conference Chair

Dr Thierry Priol, IRISA, INRIA, Rennes, France

Prof. Marco Vanneschi, University of Pisa, Italy

Organizing Committee

Dr Thierry Priol, IRISA, INRIA, Rennes, France

Olivia Vasselin, IRISA/INRIA, Rennes, France

Session Chairs

Session 1 - Component Programming

Chair: Sergei Gorlatch (University of Münster)

Session 2 - Resource Management and

Chair: Frédéric Desprez (INRIA)

Session 3 - Service Level Agreement and Self-*

Chair: Marco Danelutto (University of Pisa)

Session 4 - Grid Middleware

Chair: Paraskevi Fragopoulou (ICS-FORTH)

Program Committee

Arenas, A., RAL-CCLRC, UK

Badia, R., Barcelona Supercomputing Center, Spain

Banatre, J-P., University of Rennes 1 / INRIA, France

Bubak, M., Inst. of Comp. Sci. and Cyfronet, Poland

Corcho, O., University of Manchester, UK

Cunha, J., New University of Lisbon, Portugal

Danelutto, M., University of Pisa, Italy

Desprez, F., INRIA, France

Fahringer, T., University of Innsbruck, Austria

Fragopoulou, V., Forth, Greece

Getov, V., University of Westminster, UK

Gorlatch, S., University of Muenster, Germany

Guisset, P., CETIC, Belgium

Kacsuk, P., SZTAKI, Hungary

Kranzlmueller, D., Joh. Kepler University Linz, Austria

Laforenza, D., ISTI-CNR, Italy

Laure, E., CERN, Switzerland

Lee, C., The Aerospace Corp., USA

Lee, J., KISTI, Korea

Lengauer, C., University of Passau, Germany

Luque, E., UAB, Spain

Matyska, L., Masaryk University, Czech Republic

6 General Information

How to get to the CoreGRID Symposium

The Europar 2008 Organization Committee will provide a shuttle service to/from the conference hotels from/to the Campus of Tafira. There will be two daily routes with two buses each one.

Monday 25, August

Route 1:

- **08:30h** - Leaving from the "calle Albareda" (Albareda street) in front of the "Mercado del Puerto" (Market of the Port) *Taking the participants hosted at the NH Playa Canteras, the NH Imperial Playa hotels and surroundings*
- **08:45h** - Stop at the Meliá Las Palmas hotel at the "calle Albareda" (Albareda street) *Taking the participants hosted at the Meliá Las Palmas, the Cantur hotels and surroundings*
- **09:05h** - Arriving in the Campus of Tafira
- **18:30h** - Leaving the Campus of Tafira

Route 2:

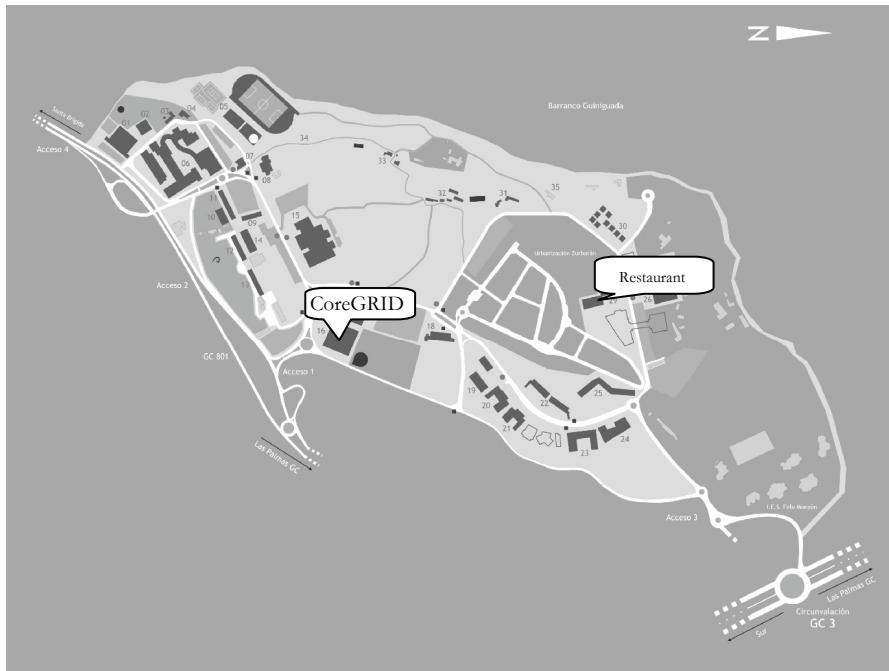
- **08:30h** - Leaving from the parking of the Reina Isabel hotel at the "calle Alfredo L. Jones" (Alfredo L. Jones street) *Taking the participants hosted at the Reina Isabel and surroundings*
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- **09:05h** - Arriving in the Campus of Tafira
- **18:30h** - Leaving the Campus of Tafira

Tuesday 26, August

Route 1:

- **08:30h** - Leaving from the "calle Albareda" (Albareda street) in front of the "Mercado del Puerto" (Market of the Port) *Taking the participants hosted at the NH Playa Canteras, the NH Imperial Playa hotels and surroundings*
- **08:45h** - Stop at the Meliá Las Palmas hotel at the "calle Albareda" (Albareda street) *Taking the participants hosted at the Meliá Las Palmas and the*

Campus Map



The CoreGRID Symposium will take place in the room 3-3 situated on the second floor of the Informatics and Mathematics Building.

Meyer, N., Poznan Supercomputing Center, Poland

Moreau, L., Univ. of Southampton, UK

Pasin, M., Universidade Federal de Santa Maria, Brasil

Perez, C., IRISA/INRIA, France

Perrott, R., Queen's University of Belfast, UK

Piquer, J-M., University of Chile, Chile

Priol, T., IRISA/INRIA, France

Reinefeld, A., ZIB Berlin, Germany

Snelling, D., Fujitsu Laboratories of Europe, UK

Schwiegelshohn, U., University of Dortmund, Germany

Talia, D., Universita' della Calabria, Italy

Varvarigou, T., NTUA, Greece

Yahyapour, R., University of Dortmund, Germany

Ziegler, W., Fraunhofer-Institute for Algorithms and Scientific Computing, Germany

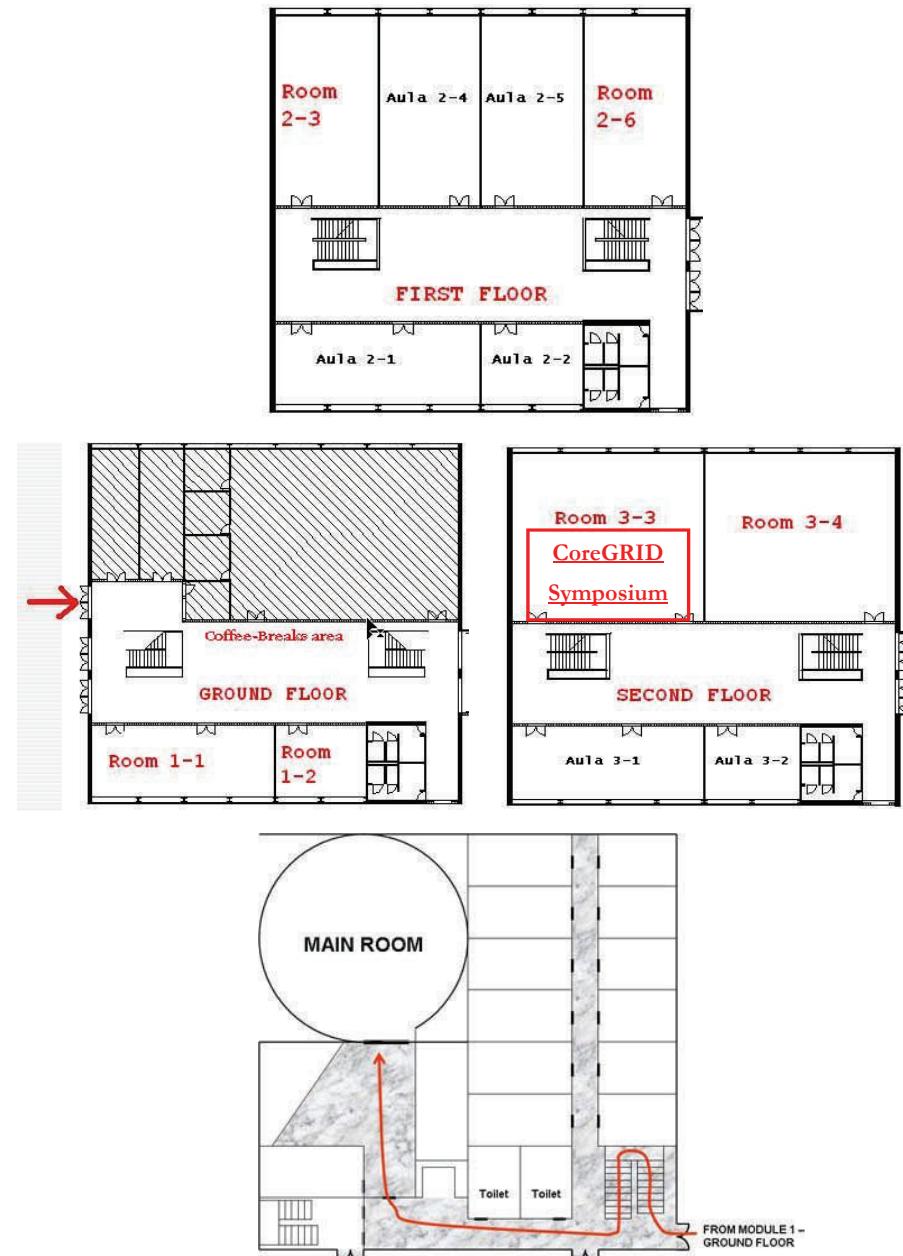
3 CoreGRID Symposium 2008 Topics

The symposium seeks contributions from Grid projects on, but not limited to, the following Grid topics:

- Applications
- Agent-mediated approaches and peer-to-peer technologies
- Dynamic composition and orchestration of ubiquitous Grid services
- Experimental testbeds
- Grid Portals
- Grid Services
- Grids and Pervasive Computing
- Grid Information Systems/Services
- Industrial and Business Applications of Grid technologies
- Knowledge and data management
- Network-centric Grid operating systems
- Problem solving environments
- Programming models
- Resource brokering, management and scheduling
- Resource Virtualization
- Scalability Issues
- Semantic Grid
- Service Oriented Architectures
- System architectures and middleware systems
- Tools
- Trust & Security
- Validation and take-up of Grid environments and tools

5 Conference Site

Informatics and Mathematics Building



Session 4 - Grid Middleware

Chair: Paraskevi Fragopoulou (ICS-FORTH, Greece)

10h00 - 10h30 Trace-Based Characteristics of Grid Workflows

Simon Ostermann, Radu Prodan, and Thomas Fahringer, Alexandru Iosif and Dick Epema

10h30 - 11h00 Core Services for Grid Markets

Pablo Chacin, Xavier Leon, Rene Brunner, Felix Freitag and Leandro Navarro

11h00 - 11h30 Break

11h30 - 12h00 Mining@home: Public Resource Computing for Distributed Data Mining

D. Barbalace, C. Lucchese, C. Mastroianni, S. Orlando, D. Talia

12h00 - 12h30 HLA Component Based Environment for Distributed Multiscale Simulations

Katarzyna Rycerz, Marian Bubak, Peter M.A. Sloot

12h30 Closing

4 Symposium Program

Short Program

All the sessions of the CoreGRID Symposium will take place in room 3-3 of the Informatics and Mathematics Building.

	Monday 25, Aug. 2008	Tuesday 26, Aug. 2008
9.00 - 9.30	Registration	Invited Talk: Andreas Metzger <u>Chair:</u> Ron Perrott
9.30 - 10.00	Invited Talk: Manish Parashar <u>Chair:</u> Thierry Priol	
10.00 - 10.30		Session 4 Grid Middleware
10.30 - 11.00	Session 1 Component Programming	
11.00 - 11.30	Break	Break
11.30 - 12.00	Session 1 Component Programming	Session 4 Grid Middleware
12.00 - 12.30		
12.30 - 13.00		
13.00 - 14.00		
14.00 - 14.30	Session 2 Resource Management and Scheduling	Closing
14.30 - 15.00		
15.00 - 15.30		
15.30 - 16.00		
16.00 - 16.30		
16.30 - 17.00	Session 2 Resource Management and Scheduling	
17.00 - 17.30	Session 3 Service Level Agreement and Self-*	
17.30 - 18.00		
18.00 - 18.30		
18.30 - 19.00		

Detailed Program

Monday 25, August

9h00 – 9h30 Registration

Plenary Keynote

Chair: Thierry Priol (INRIA, France)

9h30 – 10h30 **Autonomics for Grid Systems and Applications: Addressing Grid Complexity through Self Management**
Manish Parashar, Rutgers University, USA.

Session 1 - Component Programming

Chair: Sergei Gorlatch (University of Münster, Germany)

10h30 - 11h00 **Advances in autonomic components & services**
Marco Aldinucci, Marco Danelutto, Giorgio Zappi, Peter Kilpatrick

11h00 - 11h30 Break

11h30 - 12h00 **Behavioural Model of Component-based Grid Environments**
Alessandro Basso, Alexander Bolotov, Vladimir Getov

12h00 - 12h30 **Towards a Formal Semantics for Autonomic Components**
Marco Aldinucci, Emilio Tuosto

12h30 - 13h00 **Integrating Application and System Components with GCM**
Michał Ejdys, Ula Herman-Izicka, Namita Lal, Thilo Kielmann, Enric Tejedor, Rosa M. Badia

13h00 - 14h00 Lunch

Session 2 - Resource Management and Scheduling

Chair: Frédéric Desprez (INRIA, France)

14h00 - 14h30 **Resource Availability Comparison and Prediction**
Farrukh Nadeem, Radu Prodan, Thomas Fahringer, Vincent Keller

14h30 - 15h00 **Online Hierarchical Job Scheduling on Grid**
Andrei Tchernykh, Uwe Schwiegelshohn, Ramin Yahyapour, Nikolia Kuzjurin

15h00 - 15h30 **Global Optimization for Scheduling Multiple Co-Reservations in the Grid**

Thomas Röblitz

15h30 - 16h00 **Load Information Sharing Policies in Communication-Intensive Parallel Applications**

Javier Bustos Jimenez, Denis Caromel, Mario Leyton, Jose Miguel Piquer

16h00 - 16h30 Break

16h30 - 17h00 **A Markov Model for Fault-Tolerant Task Parallel Computations**

Carlo Bertolli, Massimiliano Meneghin, Joaquim Gabarro

Session 3 - Service Level Agreement and Self-*

Chair: Marco Danelutto (University of Pisa, Italy)

17h00 - 17h30 **Towards SLA-based Software Licenses**

Jiadao Li, Oliver Wäldrich, Wolfgang Ziegler

17h30 - 18h00 **Using SLA based Approach to handle Sabotage Tolerance in the Grids**

Syed Naqvi, Stephane Mouton, Philippe Massonet, Gheorghe Cosmin Silaghi, Dominik Batté and Matthias Hovestadt, Karim Djemame

18h00 - 18h30 **Enabling self-management**

Ahmad Al-Shishtany, Joel Höglund, Konstantin Popov, Nikos Pavlantzas, Vladimir Vlassov, and Per Brand

18h30 - 19h00 **SOC: Formalization and Design Pattern**

Marco Pasquali, Patrizio Dazzi, Antonio Panciatici, Ranieri Baraglia

Tuesday 26, August

Plenary Keynote

Chair: Ron Perrott (Queen's University of Belfast, UK)

09h00 - 10h00 **S-Cube: Addressing Multi-disciplinary Research Challenges for Software Services**

Andreas Metzger, University of Duisburg-Essen, Germany.