

3<sup>rd</sup> International Workshop on Grid Computing for Complex Problems  
**GCCP 2007**  
Bratislava, Slovak Republic  
October 22-23, 2007

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## Final program

Monday	22.10.2007	10:00 – 12:00	Tutorial: "Setting up EGEE Grid site"
Monday	22.10.2007	13:00 – 13:30	Registration
		13:30 – 13:40	Opening session
		13:40 – 14:20	Invited lecture
		14:20 – 16:00	Session 1
		16:00 – 16:20	Coffee break
		16:20 – 18:00	Session 2
		18:00	Reception
Tuesday	23.10.2007	9:00 – 9:40	Invited lecture
		9:40 – 11:00	Session 3
		11:00 – 11:20	Coffee break
		11:20 – 13:00	Session 4
		13:00 – 14:00	Lunch
		14:00 – 15:40	Grid Tutorials
		15:40 – 16:00	Coffee break
		16:00 – 17:20	Session 5
		17:20 – 17:35	Panel / Round table
		17:35 – 17:50	Consortium "Slovak grid"
		17:50 – 18:00	Program committee meeting
		18:00	Closing ceremony

## Monday October 22, 2007

**10:00**

***Tutorial 1***

Setting up EGEE Grid site

*Ján Astaloš*

**13:30**

***Opening ceremony***

*Ladislav Hluchý*

**13:40**

***Invited lecture***

High-throughput computing in molecular modeling and design

*Tibor Kožár*

**14:20**

***Session 1***

***Grid and Service-oriented Computing***

**Chair person: Ladislav Hluchý**

Web services composition supported by collaboration

*Mária Bieliková, Ivan Kapustík, Pavol Návrat, Viera Rozinajová*

Dynamic runtime environment and its usage for workflow submission

*Marek Kočan*

Concentrator placement problem solution in the optimized radio network design

*Jozef Petrek*

A Practical Component Framework for Development of Scientific Grid Applications

*Viera Šipková, Radoslav Forgáč, Ján Astaloš, Viet D. Tran, and Miroslav Dobrucký*

Workflow composition service for Grid applications

*Viet D. Tran*

**16:20**

***Session 2***

***Environmental Applications and Distributed Computing***

**Chair person: Branislav Šimo**

Improvement of Fire Hazard Mapping : Road Traffic and Topography effects

*Veronique Cesari, Frédérique Giroud, and Claude Picard*

A visualization in cluster environment

*Branislav Sobota, Marek Straka, and Ján Perháč*

Use of remote sensing data and GIS technologies for environmental modeling: The AIRSAT project

*Panagiotis E. Symeonidis, Athina Kokonozi, Kostas Kourtidis, and Evangelos Kosmidis*

Framework for Visualization and Monitoring of Running Grid Applications

*Eva Pajorová and Peter Slížik*

3D Visualization Tool for Visualization of Running Grid oriented Applications

*Eva Pajorová*

**Tuesday October 23, 2007**

**9:00**

***Invited lecture***

The formation of the outer comet Oort cloud. Simulating the first giga-year of the evolution  
*Marián Jakubík, Luboš Neslušan, Piotr A. Dybczynski, Giuseppe Leto, Tomáš Paulech*

**9:40**

***Session 3***

***Distributed Computing and Large Scale Applications***

**Chair person: Luboš Neslušan**

Tools for effective execution of parameter studies in EGEE grid  
*Ján Astaloš, Miroslav Dobrucký*

Material tension stress-strain curve determination via inverse analysis using finite element method in computational Grids - Conception of the analysis  
*Ladislav Écsi, Pavel Élesztős, Viera Šipková, Miroslav Dobrucký, Ján Astaloš*

Mathematical Model of Aircraft and its Visualization Using MPI  
*Peter Kvasnica, Tomáš Páleník, Michal Čížmár*

Metadata in Problem Solving Environment for Stereology Based Modeling  
*Július Parulek, Marek Ciglan, Branislav Šimo, Miloš Šrámek, Ladislav Hluchý, and Ivan Zahradník*

**11:20**

***Session 4***

***Use of Knowledge and Semantics in Distributed Computing***

**Chair person: Pavol Návrat**

Semantic description of the data mining grid services  
*Martin Sarnovský, Peter Bednar, František Babič, Jozef Wagner*

User interface enabling smart semantic composition of web services  
*Emil Gatíal, Branislav Šimo, Martin Šeleng, Ladislav Hluchý*

A Distributed Semantic Repository for Web Services Workflow Composition  
*Ondrej Habala, Marek Ciglan, and Ladislav Hluchý*

Towards Semantic Annotation of Grid Services  
*Michal Laclavík, Martin Šeleng, Marian Babík, Ladislav Hluchý, and Emil Gatíal*

Towards Pro-active Knowledge Sharing in Grid Environment  
*Michal Laclavík, Martin Šeleng, Ondrej Habala, Branislav Šimo, Marek Ciglan*

**14:00**

***Grid Tutorials***

Course for grid application developers (3 \* 15 min.)

- Introduction to Grid and Grid security (Úvod do Gridu a bezpečnosť v Gride)
- Introduction to gLite (Úvod do gLite)
- Gridification of application (Gridifikácia aplikácie)

*Lecturers: Miroslav Dobrucký, Viera Šípková, Viet D. Tran*

Grid tutorial and demo (30 min.)

*Lecturer: Viera Šípková*

**16:00**

***Session 5***

***Distributed Computing & Large Scale Data Access and Management***

**Chair person: Miroslav Dobrucký**

Fault tolerance techniques for grid environments: An overview

*Bartolomej Barra, Ladislav Hluchý*

Homogeneous data access authorization handling on heterogeneous grid

*Marek Ciglan, Ondrej Habala, Ján Astaloš, and Ladislav Hluchý*

About Grid Workflows Verification

*Peter Kurdel and Jolana Sebestyénová*

Job submission service based on WSRF

*Branislav Šimo and Ladislav Hluchý*

## **Presentation equipment**

Each talk has a time slot of 20 minutes. Please speak for 15 minutes and leave 5 minutes for questions.

In conference room there will be a Personal Computer available for presentations, with Microsoft Power Point and Adobe Acrobat Reader installed.

You can load your presentation into the PC via

- USB MEMORY KEY
- CD

Please contact your session chair a few minutes before the start of the session with short **biography** written, if not done previously via our conference system.

In case you need to use your personal laptop, please contact your session chair before the session starts.