



# Joint EDGeS and EGEE Summer School on Grid Application Support

**Budapest, Hungary, 29 June – 4 July 2009**

EGEE is the largest service grid in Europe using the gLite grid middleware. BOINC is the most used volunteer desktop grid technology in the world. EDGeS integrates gLite based service grids with BOINC and XtremWeb based desktop grids. In this way the EDGeS infrastructure is the largest potential grid infrastructure in the world. The subject of the summer school is to give insights to these technologies (gLite, BOINC, XtremWeb and EDGeS) as well as to tools and programming environments by which user can develop and run applications on this enhanced grid infrastructure.

## To whom do we recommend the summer school?

- EGEE users who have applications that require much more computational capacity than available in their EGEE VO. By the EDGeS technology they can extend their VO with volunteer or institutional desktop grids. They will also learn how to port their existing EGEE application into the extended EDGeS infrastructure.
- EGEE VO system administrators who would like to extend their VOs with desktop grids or would like to join their VO to the EDGeS infrastructure for the sake of their user community.
- Desktop grid system administrators who would like to join their desktop grid to the EDGeS infrastructure.
- Scientific/commercial user community members who first time learn about the potential advantages of using services grids and/or desktop grids.
- Scientific/commercial user community members who would like to establish an institutional desktop grid, university desktop grid, city desktop grid, regional desktop grid or national desktop grid.
- Staff members of companies who would like to establish an institutional desktop grid or would like to extend their existing institutional desktop grid by connecting it to other institutional desktop grids or service grids.

## Program in a nutshell:

Day 1: gLite and EGEE  
Day 3: Application development and execution in EGEE  
Day 2: EDGeS technologies  
Day 4: EDGeS applications  
Day 5: Advanced application development and execution  
Day 6: European Grid systems

## Web site:

<http://www.egee.hu/grid09/>

## Venue

Budapest, one of the most beautiful historical capitals in Europe, situated on the banks of the Danube, will host the summer school. The architectural beauty with its monuments from neo-classic through baroque to eclectic art nouveau is prevalent in the city. Budapest is also world famous for its artistic abundance of concerts, operas, recitals, galas and exhibitions. The warm hospitality of people, excellent food and wine reliable and frequent public transportation, vivid cultural life, rich museums attract millions of visitors every year. Visitor friendly visa policy, value-for-the-price services and goods, and pleasant climate make Hungary one of the most popular meeting venues worldwide.

## Detailed program:

### Day 1: gLite and EGEE

- Morning:
  - Introduction to EGEE
  - Introduction to gLite
- Afternoon:
  - gLite hands-on

### Day 2: Application development and execution in EGEE

- Morning:
  - Introduction to GASuC
  - GridWay
  - P-GRADE portal
- Afternoon:
  - P-GRADE portal hands-on

### Day 3: EDGeS technologies

- Morning:
  - BOINC
  - SZTAKI Desktop Grid
  - XtremWeb
  - Bridging between SG and DG systems
- Afternoon:
  - Hands-on:
    - Installing SZTAKI Desktop Grid
    - Installing XtremWeb
    - Connecting SG and DG systems to the EDGeS infrastructure

### Day 4: EDGeS applications

- Morning:
  - EDGeS Application Development Methodology
  - Application porting tools
  - EDGeS applications
- Afternoon:
  - Hands-on:
    - Programming SZTAKI Desktop Grid and XtremWeb by DC-API
    - Using P-GRADE portal for EDGeS

### Day 5: Advanced application development and execution

- Morning:
  - gUSE and WS-PGRADE portal
  - WS-PGRADE in EDGeS project
  - WS-PGRADE in CancerGrid project
  - WS-PGRADE in Prosim project
- Afternoon:
  - WS-PGRADE portal hands-on

### Day 6: European Grid systems

- S-CUBE project
- EGI and sustainable grid in Europe
  - Unicore
  - NorduGrid
- SEE-GRID
- IberCivis
- Closing