



Enabling Grids for E-scienceE

# e-Learning Development Phase One: Digital Library

*NA3, User Training and Induction  
UK National e-Science Centre*

[www.eu-egee.org](http://www.eu-egee.org)



Information Society



INFSO-RI-508833

- Best to take training to the audience - ubiquitous
- Persistency of courses - anytime
- Account for different background & skills
- Rapid response to rising training demands

“I prefer to learn whenever I need to and online!”.

“Experts and trainers under heavy demand. Core training team already supporting events all over Europe and need to train more people within the current constraints”.

- Enhances accessibility to courses - 24/7 availability
- Provides alternative training approaches
- Facilitates prerequisites training/focus on advanced
- Provides collaborative environments for all involved

Knowledge  
exchange

Self-paced, peer-to-  
peer learning

Need to diversify  
training methods

Sharing and  
localising training  
resources

Activity Authoring	Course Validation	Learning Flow	Marking	Sequencing
Assessment	Curriculum	Personal Developm't	Reporting	Tracking
Course Management	Learner Management	Quality Assurance	Resource List	....
AV Conferencing	Alert / Notification	Annotation / Review	Archiving	Authentication
Authorisation	Calendaring	Chat	Content Adaptation	Content Management
Email	Federated Search	Filing	Format Conversion	Forum
Harvesting	Identifier	Mapping	Messaging	Metadata Management
Packaging	Personalisation	Resolver	Scheduling	Search / Browse
Tracking	Service Registry	User Management	Whiteboard	....

- e-Learning Framework - <http://www.elframework.org>
- e-Framework - <http://www.e-framework.org/>

Activity Authoring	Course Validation	Learning Flow	Marking	Sequencing
Assessment	Curriculum	Personal Developm't	Reporting	Tracking
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- Content management - wiki approach
- Resource discovery: searching & browsing
- Content sensitive linking (object resolver)

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Welcome to EGEE Learning

This website contains information and prototype services for an initiative, EGEE Learning, to pilot e-learning for the [Enabling Grids for E-science \(EGEE\)](#) project which aims to develop production grid infrastructure for scientific purposes. The e-learning pilot is part of EGEE [Networking Activity \(NA3\)](#) to provide user training and induction.

**News:**

- The EGEE NA3 e-Learning initiative has been announced at the [3rd EGEE Conference](#). See "e-Learning: Requirements, Service Options and Plan" presentation. *20/04/05*

**Grid in General:** What is grid computing? How does grid relate to e-science? What is *EGEE, CrossGrid, LCG, OSGA, Globus, GGF*? What are the toolkits available for developing grid applications? [Learn more..](#)



is a middleware produced jointly by different academic and industrial research centres from the EGEE Project to underpin grid applications. [Learn more..](#)

Library Quick Search

Enter keyword(s):

Sort by:

Title

More advanced search options available from "discovery" menu.

Current Modules

- [gLite](#)
- [Grid in General](#)
- [Using GENIUS](#)
- [XML](#)
- [WSDL](#)

[More..](#)

Activity Authoring	Course Validation	Learning Flow	Marking	Sequencing
Assessment	Curriculum	Personal Developm't	Reporting	Tracking
Course Management	Learner Management	Quality Assurance	Resource List	....
AV Conferencing	Alert / Notification	Annotation / Review	Archiving	Authentication
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Packaging	Personalisation	Resolver	Scheduling	Search / Browse
Tracking	Service Registry	User Management	Whiteboard	....

- Annotations and comments services
- Personal/localised resource collection management
- Interoperability with other digital library & e-learning environments (export/import)

- Develop open source repository - Fedora
- Storing both metadata and data as managed assets
- Web services (SOAP) APIs for accessing/management repository objects
- Standardisation of access API based on the de facto SRW/U and OpenURL protocols





- Resource discovery services based on Fedora API
  - Simple and advanced search
  - Browse resource (based on type)
  - Results navigation
- Extension to the Fedora API to enable filtering of resources based on distinct" type and years within a results set
- Searching external repositories

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Found: 64 matches , displaying 1 - 15

◀◀ ◀ 1 2 3 4 5 ▶ ▶▶

- "combined" LCG + gLite UI installation & configuration / Presentation / Emidio Giorgio
- Architecture of gLite WMS / Presentation / Salvatore Montforte , Marco Pappalardo
- Architecture of gLite WMS / Presentation / Marco Pappalardo , Salvatore Monforte
- Biomed developer's tutorial / Event
- Comparing LCG-2 and gLite (no-longer available) / Presentation
- Comparison of LCG-2 and gLite v1.0 / Presentation / E.Slabospitskaya
- Convergence of LCG-2 and gLite / Presentation / James Casey
- Current status of gLite / Presentation / Erwin Laure
- Deployment Process and gLite Transition / Presentation / Markus Schulz
- Experience and plans using gLite (Biomed) / Presentation / Ignacio Blanquer
- Experience and plans using gLite (Biomed) / Presentation / Ignacio Blanquer
- Experience and plans using gLite (New applications) / Presentation / Giuseppe Andronico
- Experience and plans using gLite (New applications) / Presentation / Giuseppe Andronico
- Experiences and plans using gLite in HEP / Presentation / D. Liko
- Experiences and plans using gLite in HEP / Presentation / D. Liko

Library Quick Search

Enter keyword(s):

Sort by:

More advanced search options available from "discovery" menu.

Results filter

Resource type

- event / exercise / module / presentation / tutorial /

Year

- unclassified / . / 2004 / 2005 /

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## Architecture of gLite WMS

[.ppt](#) [.pdf](#)

By Salvatore Montforte Marco Pappalardo

Type: Presentation

### wiki options

Enhance the metadata of this resource.

[edit](#) [history](#)

[export](#)

These options currently requires Mozilla/Firefox browsers.

- Content management in federated contexts:
- Building on the Fedora service API (-M)
- Wiki services for digital library:
  - Metadata wiki based on W3C XForms (rich user interface)
  - Versioning and history
- Interoperability
  - Exporting objects in e-learning and digital library standards
- Metadata enrichment - reusing existing metadata



*Wiki*

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General Description Subjects

Type

Title

By

Date  ← yyyy or dd/mm/yyyy

Language

URL  ← url,cvs,wsdl,rss etc.

File

wiki options

All edits will be logged as history and subjected to the audit of library editors.

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General Description **Subjects**

Subject +

General **EGEE** Misc

- Cyprus Grid
- EGEE European grid support, operation and man...
- Enabling Grid for E-science project
- European DataGrid project
- Grid Enabled web eNvironment for site Independ...
- Grid INFN Laboratory for dissemination activities
- Grid for Alice experiment
- HEP application grid requirements
- Israeli Academic Grid
- LHC computing grid



**wiki options**

All edits will be logged as history and subjected to the audit of library editors.

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## Resource History

### Metadata

- 2005-10-10, 09:57:42: version: [DC.6](#)  
Grid Computing
- 2005-10-10, 09:45:10: version: [DC.5](#)  
Grid Computing
- 2005-10-10, 08:45:21: version: [DC.4](#)  
Grid Computing
- 2005-10-07, 13:45:59: version: [DC.3](#)  
Grid Computing
- 2005-10-07, 13:38:00: version: [DC.2](#)  
Grid Computing
- 2005-09-21, 10:20:31: version: [DC.1](#)  
Grid Computing
- 2005-09-21, 10:17:18: version: [DC.0](#)

### Files

- 2005-10-10, 10:14:02: version [txt.1](#) :  
Grid Computing
- 2005-10-10, 10:12:39: version [txt.0](#) :  
Grid Computing
  
- 2005-10-10, 10:27:43: version [pdf.0](#) :  
Grid Computing

### wiki options

Select a specific edited version to view or edit content

[Back](#)

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## Create Resource Stub

Type  < Select a type best fit the resource.Title 

A resource stub is a piece of object that *doesn't exist* in the library. It is incomplete and requires elaborations. Once created it is available for editing and enhancing by the communities, via the wiki services. *It is subjected to the auditing and review of the library editors.*

See 'stub' for a guideline.

### wiki options

Create a resource stub by choosing a type with a title.

These options currently requires Mozilla/Firefox browsers.

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## Grid Computing

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Type: Book

### wiki options

Enhance the metadata of this resource.

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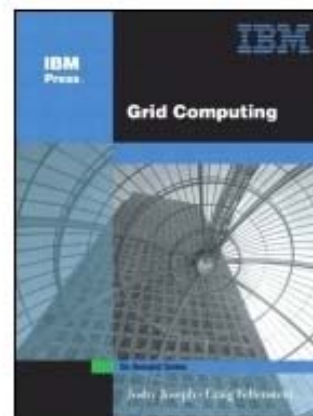
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ISBN: 0131456601

Type: Book



### wiki options

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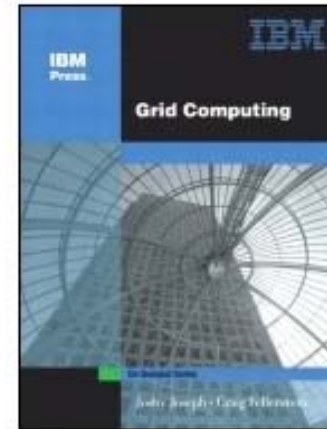
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## Grid Computing

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- [On Demand Computing Books](#)
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- [What You Can Expect from This Book](#)
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- [Merging the Grid Services Architecture with the Web Services Architecture](#)
- [Open Grid Services Architecture \(OGSA\)](#)
- [Some Sample Use Cases That Drive the OGSA](#)
- [The OGSA Platform Components](#)



### wiki options

Enhance the metadata of this resource.

[edit](#) [history](#)

[export](#)

These options currently requires Mozilla/Firefox browsers.

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Publisher: Prentice Hall PTR

Date: December 30, 2003

ISBN: 0131456601

Type: Book

Url: <http://safar1.oreilly.com/0131456601>

A business-focused guide to the grid computing revolution Best practices, case studies, and resources from IBM's experts Drive unprecedented value from your existing IT investments Simplify IT administration in heterogeneous environments Build flexible, resilient infrastructures that deliver resources instantly IBM Business On Demand Series: Your business blueprint for leveraging the grid computing revolution. When you turn on the light, the power grid delivers exactly what you need, instantly. What if computers and networks could work that way? Now they can...and that will transform the way you do business. Grid Computing is about the "Business on Demand" revolution: delivering the exact technology resources you need, anywhere, anytime, without complexity or high cost. You can do it all, starting right now, starting with your existing systems. Whether you're an executive, strategist, architect, technologist, or developer, this book will show you how. Master the fundamental concepts underlying grid and utility computing Learn how to start and which applications to start with Understand the state-of-the-art in technologies and standards Use grid computing to maximize the value of existing resources Build more flexible, resilient, and available operational infrastructures Deliver instantaneous access to data and resources on a "sense and respond" basis Eliminate the burden of administering disparate, non-integrated systems In Grid Computing, leading IBM experts bring together best deployment practices, practical guidance on integrating existing resources, and up-to-the-minute case studies: all you need to drive business value from the grid computing revolution.

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### Export Resource

Metadata:

Dublin Core  Learning Object

Package:

IMS Content Package (XML)

### wiki options

Select a format and export the resource.

These options currently requires Mozilla/Firefox browsers.

## GENIUS introduction

Type Module

URL

- <http://localhost:8080/ops/egeelearning/resolver?id=egeelibrary:module.7>

References

- [An introduction to the GENIUS portal](#)
- [Some additional features of GENIUS](#)
- [GENIUS and EnginFrame](#)
- [Genius and Gilda](#)
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- [GILDA](#)

### Reload Content Package Preview

An introduction to the GENIUS portal

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Organisation

GENIUS introduction

**An introduction to the GENIUS portal**

Some additional features of GENIUS

GENIUS and EnginFrame

Genius and Gilda

GENIUS

GILDA

Introduction to GENIUS

Introduction to GENIUS

GILDA Project

EGEE Learning

### An introduction to the GENIUS portal

.ppt

Type: Presentation

#### wiki options

Enhance the metadata of this resource.

edit history

export

These options currently requires Mozilla/Firefox browsers.

- **Development details and testbed:**
  - <http://wiki.nesc.ac.uk/read/egEE-elearning/>
- **Email**
  - [boon.low@ed.ac.uk](mailto:boon.low@ed.ac.uk)