



## Workshop

### Workshop Organisers

Nicola CAPUANO  
 CRMPA - Italy  
[capuano@crmpa.unisa.it](mailto:capuano@crmpa.unisa.it)  
 Matteo DESIDERIO  
 DIIMA - Italy  
[desiderio@diima.unisa.it](mailto:desiderio@diima.unisa.it)

### Programme Committee Chairs

Theo Dimitrakos  
 Central Lab. of the Research  
 Councils,  
 (Rutherford Appleton Lab.) UK  
[t.dimitrakos@rl.ac.uk](mailto:t.dimitrakos@rl.ac.uk)  
 Saverio Salerno  
 DIIMA, Italy  
[salerno@unisa.it](mailto:salerno@unisa.it)  
 Pierluigi Ritrovato  
 CRMPA, Italy  
[ritrovato@crmpa.unisa.it](mailto:ritrovato@crmpa.unisa.it)

### Programme Committee

Giovanna Albano, Italy  
 Giuliano Gargiulo, Italy  
 Nicola Capuano, Italy  
 Matteo Desiderio, Italy  
 Francesco D'Andria, Italy  
 Angelo Gaeta, Italy  
 Giuseppe Laria, Italy  
 Sergio Miranda, Italy  
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 M. Xenos, Greece  
 Cornelia Boldyreff, UK  
 Paul Lefrere, UK  
 Colin Allison, UK  
 Christian Saguez, France  
 Pierre Michaud, France  
 Marc Drabik, France  
 Antoni Riu, Spain  
 Santi Ristol, Spain  
 Stefan Wesner, Germany  
 Paul Held, Germany  
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## Call For Papers

**TOWARDS A EUROPEAN LEARNING GRID INFRASTRUCTURE** is a series of workshops organised by the **Learning GRID of Excellence Working Group (LeGE-WG)**, which is a thematic network sponsored by the Information Society Technologies Program (IST) of the European Commission in order to facilitate the emergence of a European GRID infrastructure for e-Learning. **LeGE-WG** is funded by the European Commission under the contract IST-2001-38763.

The 3rd International LeGE-WG Workshop, organised by the Italian Node, with the special theme “GRID infrastructure to support future technology enhanced Learning”, will take place on 3rd December, 2003 in Berlin, in parallel with the Online Educa Berlin, 9th International Conference on Technology Supported Learning & Training.

### TOPICS

In current practices, learning processes are based mainly on the information transfer paradigm and are devoted to find the best way for presenting contents in order to transmit information to learners. Most of the e-learning solutions available on the market are focused on supporting only a specific aspect of the learning process, notably the content delivery (content centred approach). This traditional paradigm of Information transfer oversimplifies the real human learning situations, as it considers “ideal” learners to react identically. Learning is a non linear process dependent on a great number of variables, so the only good quality of teaching does not determine the effectiveness of the learning phase. For this reason it is necessary takes into account the fundamental importance of the pedagogical component, in order to foster a more effective learning. The learning process, according to recent cognitive theories, can be effective using an approach which considers in a unitary way some fundamental characters of learning such as active, situated and collaborative learning.

In many recent studies the importance of the particular learning style of each student has been stressed in order to foster better learning results. Among the fundamental and innovative aspect of future e-learning services there is the possibility of personalising the learning process with respect to each learner. Therefore it is necessary to investigate strategies and methods to determine the learning style preferred by or peculiar of the individual student. On this basis, suitable teaching methodologies can be defined, which allow to generate a personalised educational process, related to the specific characteristics of the learner.

Grid technologies show many suitable characteristics to achieve an effective learning as they shift the focus from the delivery of ready to use services to the dynamic generation of services tuned with the context. They are the most promising approach to realise an infrastructure that will allow learning process actors to collaborate, to use and share high quality learning data and to innovate solutions of learning and training. Grid technologies will be able to support learning processes allowing each learner to use, in a transparent and collaborative manner, the resources already existing on-line, by facilitating and managing dynamic conversations with other human and artificial actors available on the GRID, that offer services including those resources.

Moreover, the next generation of GRID infrastructures (Semantic and Knowledge GRID) will facilitate the implementation of the ISTAG vision of Ambient Intelligence for Learning.

For these reasons the workshop will be focused, but not limited to:

- new pedagogical approaches for e-learning;
- learner models and knowledge representation;
- knowledge and Semantic GRID;
- Virtual Learning Organisations and Communities;
- Advanced Web based Collaboration Systems
- Service Oriented Software Architecture

### SUBMISSION

Full camera-ready paper submissions are expected to be using the templates of the British Computing Society (BCS, see below). The paper preparation guidelines of the BCS have to be followed accordingly. Submissions should not exceed four A4 pages in length. The Conference language is English. Only electronic submissions are acceptable. After the review process has taken place, all accepted papers will be included in the Workshop Proceedings.

#### Address for paper submissions:

Dipartimento di Ingegneria dell'Informazione e Matematica Applicata (DIIMA),  
 Via Ponte don Melillo, I-84084 - Fisciano (SA), Italy  
 E-mail: [lege-wg3rdworkshopsubmission@crmpa.unisa.it](mailto:lege-wg3rdworkshopsubmission@crmpa.unisa.it)  
 Templates to be used and further layout instructions:  
<http://www1.bcs.org.uk/DocsRepository/02400/2439/default.htm>

#### Deadlines for Authors:

Electronic submission papers by Friday, October 31, 2003  
 Notification of acceptance will be mailed to you by Monday, November 10, 2003  
 Electronic submission of camera-ready papers by Friday, November 21, 2003