

# ERCIM Institutional Repository Meeting

Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo"  
Area della Ricerca del CNR di Pisa  
December 15, 2006

## Institutional Repository: CNR – PUMA

Stefania Biagioni  
ISTI-CNR  
Pisa

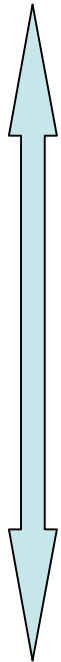




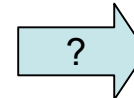
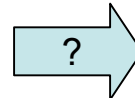
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Stefania Biagioni  
Computer Science Library  
Head Librarian

- The contest
- The past
- Today
- The evolution



PUMA  
PUMA



IR-ERCIM

# The contest - National Research Council (CNR)



CNR

About CNR

11 Departments

## •ICT Information and Communication Technologies

- Patrimonio Culturale
- Terra e Ambiente
- E nergia e Trasporti
- Agroalimentare
- Medicina
- Scienze della Vita
- Progettazione Molecolare
- Materiali e Dispositivi
- Sistemi di Produzione
- Identità Culturale

## CNR in few words

The National Research Council is the greatest research public body of our Country.

It was founded on November 18 of 1923; in 1945, it became a public body. It has mainly carried out training, promotion and research coordination activities in every scientific and technological sector.

In 2003, following the [legislative decree of 4 June 2003 No. 127](#) , CNR became a "national public organization committed to carry out, promote, spread, transfer and improve research activities in the main sectors of knowledge growth and of its applications for the scientific, technological, economic and social development of the Country.

### Mission

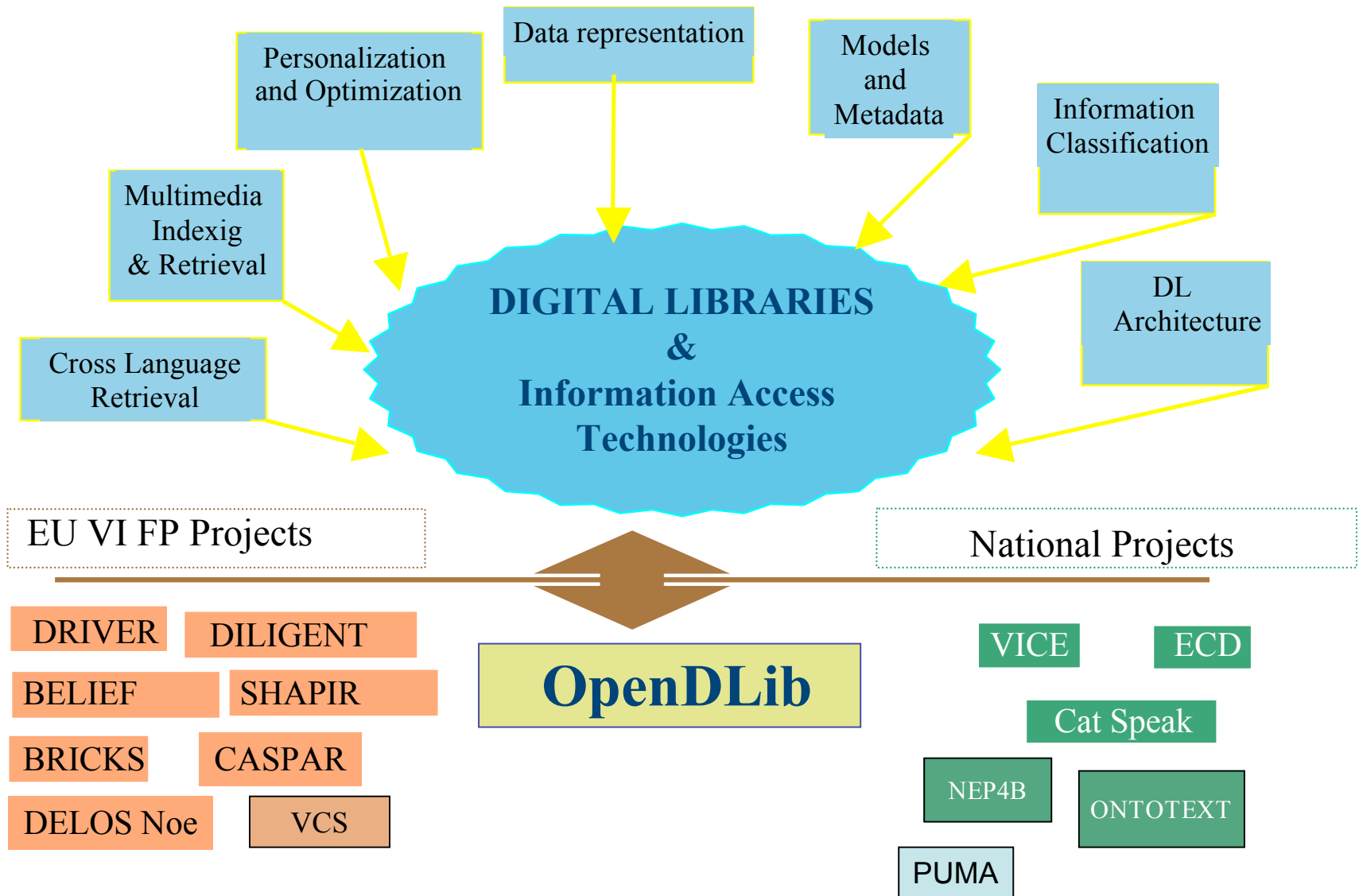
To perform research in its own labs both promoting innovation and competitiveness of the industrial system and providing technologies and solutions to emerging public and private needs. To promote the internationalization of the research system; to advise the Government and other public bodies on strategic themes for the Country and the collectivity; to contribute to the qualification of human resources.

These are the strategic points of the mission of CNR (Italian National Research Council), whose aims can be summed up by the Eighty five projects on acquired strategic subjects such as Energy & Transportation, Earth & Environment, Agriculture & Food, Medicine, Life Sciences, Molecular Design, Materials & Devices, Advanced Manufacturing Systems, Information and Communication Technologies, Cultural Identity, Cultural heritage which are the tasks in which the Italian National Research Council is engaged. Cooperation with Universities and industrial companies is a systematic choice with the general aim of "**creating value for the Country by competences through scientific research**".

Since 14 July 2004 Prof. **Fabio Pistella** has been CNR Chairman.

# The contest - NMIS Laboratory at ISTI-CNR

**Research Areas**





## The past - ETRDL (1997-2000): an experience begun in the 90s

1996-97 Ercim Librarians and Members of DL WG decide to build the  
**ERCIM Technical Reference Digital Library**

as a specialized sub-collection of

**NCSTRL** - U.S. Networked Computer Science Technical Reference Library  
with extended functionality to meet the requirements of a European Digital  
Library service

using **Dienst** technology (developed by US Cornell University DL Group)  
which allows:

***networked access*** to a globally distributed collection of grey resources  
and ***on-line services*** to assist scientists in publishing their work  
results, to review papers and administrate the repositories



## The past - ETRDL (1997-2000): an experience begun in the 90s (cont.)

The project, funded by ERCIM DELOS Working Group, was a collaborative effort among the following National Research Institutions

**CNR - Italy**  
**CWI - The Netherlands**  
**FORTH - Greece**  
**GMD - Germany**  
**INRIA - France**  
**SICS - Sweden**  
**SZTAKI - Hungary**  
**ERCIM - Czech Republic**

The system was developed by CNR and was operational after a one-year period of testing and refining by Ercim librarians and developers



(<http://dienst.isti.cnr.it>)



- is a software infrastructure for institutional repositories of technical or scientific documents, published or unpublished
- serves CNR researchers by facilitating their self-archiving, ensuring the long-term preservation of their documents and by providing world-wide easy access to their papers
- offers a common user interface, both in English and in Italian to

**Search and Browse:**

- Browsing extensions by subject (ACM, MSC, Free keywords)
- Search extensions by subject, selection by date, language, type
- more complex query structures

**Archive:**

- Submission of metadata (qualified DC + administrative metadata) and document full text
- Author has the control of the access rights of the documents according to the editor's policies
- Approval, administration

**Bilingual information access:**

- user interface localization - Italian and English languages
- different character set manipulation - [ISO/IEC 8859-1](#)
- cross language search



# PUMA

## PUBlication MANagement

### Today - PUMA: the evolution of ETRDL

- every CNR Institute implements its own policies
- is integrated in the context of the CNR Library Information Systems
- reuses the same documents to serve different types of services
  - exchanges metadata with centralized CNR grey literature database
  - realizes the bibliography of the Institutes via PUMA-METAPUB
  - realizes annual report of activity via PUMA-METAPUB

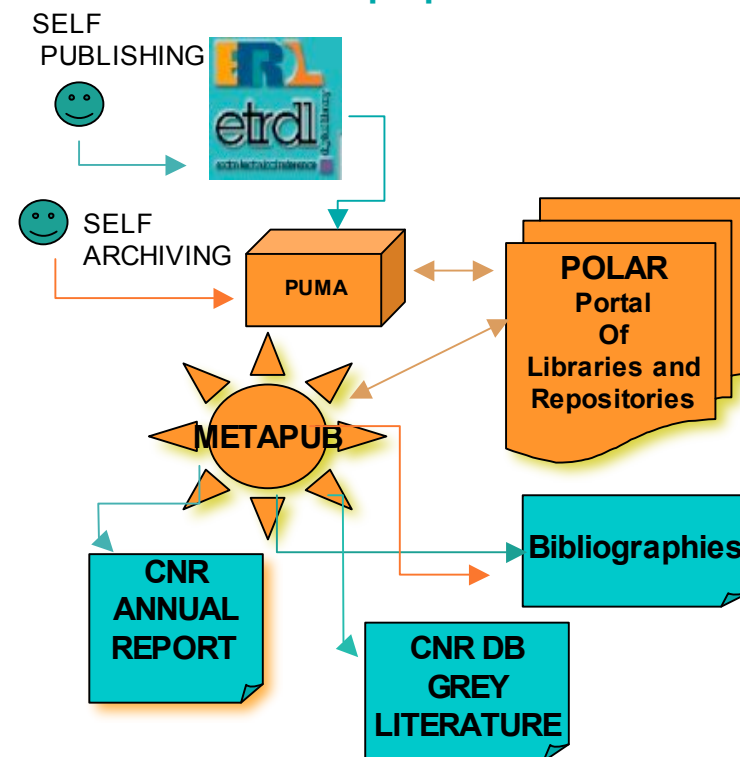
**Users:** Information seekers, providers, administrators

**Documents:** (grey and published literature of CNR Institutions)

- TR, EC deliverables, Pre-prints, Theses, Project reports, Ercim News, Proceedings, Journal articles, Books, Contribution to books, Patents, Editorials ..

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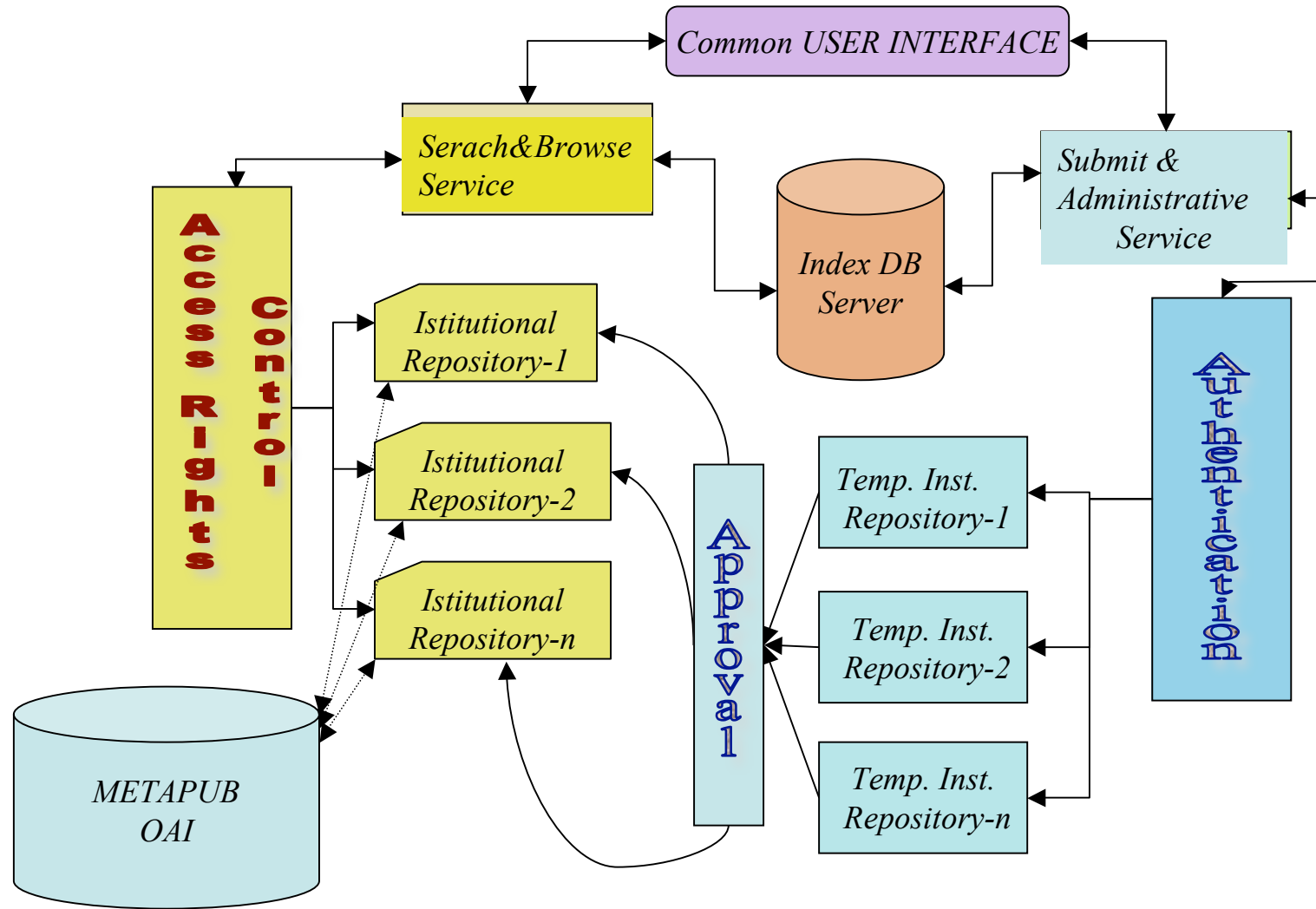


## PUMA Partners

- **IAMC - Institute for Coastal Marine Environment (Taranto)**
- **IBF - Institute of Biophysics (Genova, Pisa)**
- **IEIT- Institute of Electronics, Computer and Telecommunication Engineering (Genova)**
- **IENI - Institute for Energetics and Interphases (Genova)**
- **IFAC - Institute for Applied Physics “Nello Carrara” (Florence)**
- **IFC - Institute of Clinical Physiology (Pisa)**
- **IGG - Institute of Geosciences and Earth Resources (Pisa)**
- **IIT - Institute for Informatics and Telematics (Pisa)**
- **ILC - Institute of Computational Linguistics (Pisa, Genova)**
- **IMATI - Institute for Applied Mathematics and Information Technologies (Genova)**
- **IRPPS - Institute for Research on Population and Social Policies (Roma)**
- **ISEM - Institute of Mediterranean Europe History (Genova)**
- **ISIB - Institute of Biomedical Engineering (Padova)**
- **ISMAC - Institute for macromolecular studies (Genova)**
- **ISMAR - Marine Science Institute (Genova)**
- **ISSIA - Institute of Intelligent Systems for Automation (Genova)**
- **ISTI - Institute of Information Science and Technologies (Pisa)**
- **ITD - Institute for Educational Technology (Genova)**

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# TODAY - PUMA-SS = PUMA Standard Site



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**Italian National Research Council (CNR)**

[ Italian ]

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16	1985	7	1986	15	1987
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24	1991	24	1992	12	1993
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10	1997	26	1998	24	1999
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**ISTI - Istituto di Scienza e Tecnologie dell'Informazione (Pisa)**

Selection from: 1 to: 993

<a href="#">cnr.isti/2001-A0-56</a>	A multifrequency TD operating in Ka band
<a href="#">cnr.isti/2001-A1-08</a>	GaliLEO: a simulator
<a href="#">cnr.isti/2001-A2-56</a>	A Software Development Flight
<a href="#">cnr.isti/2001-A2-58</a>	A computing direct variation versus altitude
<a href="#">cnr.isti/2001-A3-49</a>	Maximizing TLP with
<a href="#">cnr.isti/2002-A0-57</a>	Integrated Performance Architectures
<a href="#">cnr.isti/2002-A0-58</a>	Relaxed energy for
<a href="#">cnr.isti/2002-A1-05</a>	GaliLEO. A simulator Presentation of the



<b>Institute</b>	cnr.isti
<b>Site</b>	cnr.isti
<b>Title</b>	GaliLEO: a simulation tool for LEO satellite constellations
<b>Author(s)</b>	Franck, Laurent
<b>Author(s)</b>	Potori, Francesco
<b>E-Mail</b>	<a href="mailto:Potori@isti.cnr.it">Potori@isti.cnr.it</a>
<b>Abstract language</b>	English
<b>English abstract</b>	We present Galleo, a simulator for the transmission of both connection-oriented and connectionless traffic over a constellation of LEO/MEO (Low / Medium Earth Orbit) satellites. Its scope is limited to the satellites and the stations accessing them, without any modelling of the terrestrial network, but inside this scope the goal is to study the performance of satellite-based communication networks from as many as possible points of view. Typical applications include simulation of access techniques, routing policies, fault management. The simulator is written in Java, and it makes use of dynamic loading to easily integrate user-written modules. A draft manual is available, and a preliminary version of the program will be published by the end of 2000.
<b>Document language</b>	English
<b>Document URL</b>	<a href="http://www.wkap.nl/prod/b/0-7923-7547-5">http://www.wkap.nl/prod/b/0-7923-7547-5</a>
<b>Subject(s)</b>	COST
<b>Subject(s)</b>	LEO
<b>Subject(s)</b>	Satellite
<b>Subject(s)</b>	Simulation
<b>Subject_ACM</b>	I-6-3 Simulation and Modeling, Applications
<b>Type</b>	A1 Contribution to International Books/Monographs
<b>Edited by</b>	Ince, Nejat A. (eds.)
<b>Pub. place</b>	Dordrecht (NL)
<b>Publisher</b>	Kluwer International
<b>Year</b>	2001
<b>Pages</b>	pp. chapter 11
<b>ISBN</b>	0-7923-7547-5
<b>Note</b>	Proceedings of the European COST telecommunications symposium - COST 256 - The Kluwer International series in Engineering and Computer Science: volume 845
<b>Entry date</b>	July 15, 2004
<b>Access rights</b>	1
<b>Code</b>	/cnr.isti/2001-A1-08

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[cnr.isti/2005-A2-67](#) Realistic realtime illumination of complex environment for immersive systems a case study: the Parthenon

http://puma.isti.cnr.it - PUMA - PUblication MAnagement

<b>Institute</b>	cnr.isti
<b>Site</b>	cnr.isti
<b>Title</b>	Realistic realtime illumination of complex environment for immersive case study: the Parthenon
<b>Author(s)</b>	Callieri, Marco
<b>Author(s)</b>	Debevec, Paul
<b>Author(s)</b>	Pair, Jarrel
<b>Author(s)</b>	Scopigno, Roberto
<b>E-Mail</b>	<a href="mailto:callieri@isti.cnr.it">callieri@isti.cnr.it</a>
<b>Abstract language</b>	English
<b>English abstract</b>	Off-line rendering techniques have nowadays reached an astonishing realism but pay the cost of long computational times. The new generation programmable graphic hardware, on the other hand, gives the possibility to implement in realtime some of the visual effects previously available in cinematographic production. We describe the design of an interactive movie 'The Parthenon' presented at Siggraph 2004. The application is run on a specific immersive reality system, making possible for a user to interact with the virtual environment with a nearly cinematographic visual quality. In this paper we present the principal ideas of the project, discussing the design and technical solutions used to implement the realtime demo.
<b>Document language</b>	English

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Logic operator between fields:

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## Publications

2 record/s selected by type and year

2(1,2) Records sent of 2 selected

### Conference papers

1. Callieri M., Debevec P., Pair J., Scopigno R. - [Realistic realtime illumination of complex environment for immersive systems a case study: the Parthenon](#). In: SPIE International Symposium on Optical Metrology and Metrology for Manufacturing, Germany, June, 13-17, 2005). Proceedings SPIE 5887. The International Society for Optical Engineering, 2005.
2. Scopigno R., Cignoni P., Callieri M., Ganovelli F., Impoco G., Pingi P., Debevec P., Callieri M., Ganovelli F., Impoco G., Pingi P., Scopigno R. - [Using optically scanned 3D data in the restoration of Michelangelo's David](#). SPIE International Symposium on Optical Metrology and Metrology for Manufacturing (D), 23-26 June 2003). Proceedings, Vol. 5146, p.44-53. SPIE 2003.

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## Publications

### Bibliographic record ISTI-A2-67

**Title:** Realistic realtime illumination of complex environment for immersive systems a case study: the Parthenon  
**Author/s:** [Callieri M.](#); [Debevec P.](#); [Pair J.](#); [Scopigno R.](#);  
**Year of publication:** 2005  
**Classificazione ACM:** [1.3.7](#);  
**Subject/s:**

1. [Three-Dimensional Graphics and Realism](#)

**Abstract:** Off-line rendering techniques have nowadays reached an astonishing level of realism but pay the cost of long computational times. The new generation of programmable **graphic hardware**, on the other hand, gives the possibility to implement in realtime some of the visual effects previously available only for cinematographic production. We describe the design of an interactive system which is able to reproduce in realtime one of the crucial sequences from the short movie 'The Parthenon' presented at Siggraph 2004. The application is designed to run on a specific immersive reality system, making possible for a user to perceive the virtual environment with a nearly cinematographic visual quality. In this paper we present

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<b>* E-Mail:</b>	<input type="text" value="fabrizio.potorti@isti.cnr.it"/>						
<b>* Subject(s):</b>	Free Keyword(s) ( <a href="#">browse</a> ) COST Satellite ACM - Computing Classification System ( <a href="#">ACM</a> ) I.6.3 Simulation and Modeling. Applications MSC - Mathematics Subject Classification ( <a href="#">MSC</a> )						
<b>* English abstract:</b>	routing policies, fault management. The simulator is in Java, and it makes use of dynamic loading to easil integrate user-written modules. A draft manual is ava and a preliminary version of the program will be publ by the end of 2000.						
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<b>Sezione</b>	cnr.isti
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<b>Autore/i</b>	Deluca, Rosaria
<b>E-Mail</b>	<a href="mailto:Rosaria.DeLuca@isti.cnr.it">Rosaria.DeLuca@isti.cnr.it</a>
<b>Lingua sommario</b>	English
<b>Sommario in Inglese</b>	not available
<b>Altra Lingua sommario</b>	Italian
<b>Sommario in altra lingua</b>	Analisi dettagliata degli aspetti fondamentali del "Testo Unico della Privacy", allo scopo di fornire uno strumento adeguato di lettura per una corretta conoscenza e comprensione della normativa vigente in relazione ai principi che la regolano, ai diritti, agli adempimenti, alle sanzioni.
<b>Lingua documento</b>	Italian
<b>Soggetti</b>	security
<b>Soggetti</b>	privacy
<b>Soggetto_ACM</b>	A. General literature
<b>Tipo</b>	B4 Internal notes
<b>Tipologia</b>	Rapporti tecnici, manuali, carte geologiche e tematiche e prodotti multimediali
<b>Descrizione</b>	Analisi dettagliata degli aspetti fondamentali del "Testo Unico della Privacy"
<b>Data di creazione</b>	2006-12-05
<b>Data inserimento</b>	14/12/2006
<b>Diritti di accesso</b>	0

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<b>Titolo</b>	Sicurezza dei Dati e Applicazione del Codice della Privacy(D.L.gs 196/2003)
<b>Autore/i</b>	Deluca, Rosaria
<b>E-Mail</b>	<a href="mailto:Rosaria.DeLuca@isti.cnr.it">Rosaria.DeLuca@isti.cnr.it</a>
<b>Lingua sommario</b>	English
<b>Sommario in Inglese</b>	not available
<b>Altra Lingua sommario</b>	Italian
<b>Sommario in altra lingua</b>	Analisi dettagliata degli aspetti fondamentali del "Testo Unico della Privacy", allo scopo di fornire uno strumento adeguato di lettura per una corretta conoscenza e comprensione della normativa vigente in relazione ai principi che la regolano, ai diritti, agli adempimenti, alle sanzioni.
<b>Lingua documento</b>	Italian
<b>Soggetti</b>	security
<b>Soggetti</b>	privacy
<b>Soggetto_ACM</b>	A. General literature
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<b>Descrizione</b>	Analisi dettagliata degli aspetti fondamentali del "Testo Unico della Privacy"
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<b>Data inserimento</b>	14/12/2006
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- Migration to more advanced DLMS ?
- To be part of ERCIM-IR ?

