

2010 年

第 9 期 总第 33 期（半月刊）

# 信息化研究与应用快报

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TeraGrid

2010

OECD

2010

2011

7

IT

IBM

TeraGrid

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# TeraGrid

## TeraGrid

TeraGrid            2001    8                            NSF

" TeraGrid                            " TeraGrid Science Gateways                            2004

TeraGrid    TeraGrid            34                            TeraGrid

## TeraGrid

- 1
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6

7

1 OLSGW

" " Open Life Science Gateway OLSGW

TeraGrid

GRAM

GridFTP

PB

GRAM

TeraGrid

2008

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10

OLSGW

TeraGrid

15000

2 GridChem

NSF 2004

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" Computational Chemistry Grid

" GridChem

" www.gridchem.org

" NSF

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GridChem

GridChem

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" metascheduling

GridChem

TeraGrid

3 NanoHUB

2002

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Network for

Computational Nanotechnology

NCN

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NCN

" NanoHUB

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nanoHUB.org

2007

9

2008

8

172

77000

6300

NanoHUB

34

NanoHUB

Web2.0

NanoHUB

4 HUBzero

NCN

" HUBzero

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http://hubzero.org Joomla nanoHUB  
 HUBzero  
 cceHUB.org  
 manufacturingHUB.org GlobalHUB.org  
 pharmaHUB.org thermalHUB.org HUB

5 LEAD  
 " LEAD "  
 2008  
 LEAD  
 2007 10 LEAD  
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[http://ieeexplore.ieee.org/search/srchabstract.jsp?tp=&arnumber=4668681&queryText%3DScience+Gateway%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/srchabstract.jsp?tp=&arnumber=4668681&queryText%3DScience+Gateway%26openedRefinements%3D*%26searchField%3DSearch+All)

## TeraGrid

PSEs TeraGrid  
 PSEs PSEs  
 TeraGrid  
 PSE PSE  
 PSEs  
 TeraGrid TeraGrid  
 GSI GRAM GridFTP  
 RFT  
 /PSE

TeraGrid

APIs PSE/

TeraGrid

TeraGrid

30

PSE

PSE

1

SIDGrid

2

GEON

GEON

PSE

3 QuakeSim

QuakeSim

PSE

4

CIG

CIG

TeraGrid

DoD

Department of Defense  
DoD

" " System of Systems SoS

1.

DoD

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2.

DoD

Information Assurance Certification and Accreditation Process DIACAP

1

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3

3.

1

		8510.01		System
Identification Profile	SIP	DIACAP	DoD	

Office of Management and Budget OMB

DoD

"	"	Plan of Actions and Milestones	POA&M	DoD
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DoD

2

DoD

DoD SoS

[http://www.rand.org/pubs/monographs/2010/RAND\\_MG951.pdf](http://www.rand.org/pubs/monographs/2010/RAND_MG951.pdf)

**2010**

2010 4

ENISA

2010



" " Multi-annual Thematic Programmes MTP  
" " Preparatory Actions PAs 2010

ENISA  
ENISA

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WPK

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ICT

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ENISA

1

ENISA

2

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3

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2010

2011

<http://www.enisa.europa.eu/media/key-documents/enisa-work-programme-2010>

2010

European Association of Distance Teaching Universities

EADTU

Universidad Nacional de Educación a

Distancia UNED

10

students

employable students

educated

entrepreneurial

students

1.

1

Independent Learning MORIL  
and Flora Hewlett Foundation

Multilingual Open Resources for

William

2

Assisted Lifelong Learning EU4ALL

European Unified Approach for

2.

1 Cross Sector Virtual Mobility CSVM

2 " " The Employability ' Clinique' TEC  
CSVM

3 Networked Open Polytechnic NOP  
ICT

3.

1 Cross Border Virtual Entrepreneurship CBVE

2 Cross Border Virtual Incubator CBVI

<http://www.elearningeuropa.info/files/media/media21854.pdf>

## OECD

2010 4 OECD

1

ISP

2

" "

3 2008  
1.4%

GDP

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2.5%      0.2%      0.57%      GDP      0.6%  
4      1%      /      IP      GDP  
Web

5

<http://www.oecd.org/dataoecd/49/4/44949023.pdf>

**2010**

2010    4

1.

ICT

2.

1

2008

2

3

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# JISC

JISC

Virtual Research Community

VRC

JISC

Virtual Research

Environment

VRE

VRE

VRE

VRC

Virtual Organisation

VO

Collaborative Virtual Environment CVE

VRE

VRE

1

VRE

VRE

2

VRE

3

VRE

VRE

4

Web 2.0

5

VRE

6 VRE  
7

8 VRE

<http://www.jisc.ac.uk/publications/reports/2010/vrelandscapestudy.aspx>, <http://www.jisc.ac.uk/media/documents/publications/vrelandscape-report.pdf>

**2011 7 IT**

FedSources 2011  
7 IT 2011  
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3.023  
2

IT 8300

3 DOT 5400

4 (CMS)  
CMS



5030

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4000

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3040

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IT

BOPnet

1510

<http://washingtontechnology.com/articles/2010/04/16/seven-hot-projects-2011.aspx>

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	TD				TD	

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HeMoLab

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" " Sentinel

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EGEE

HeMoLab " "

<http://www.hpcwire.com/offthewire/EGEE-User-Forum-Demos-Health-e-Grids-90845339.html>

**ESnet SURFnet NORDUnet**

ESnet

SURFnet

NORDUnet

ESnet

SURFnet

NORDUnet

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ESnet

ESnet NORDUnet SURFnet

ESnet

OSCARS

DRAC

<http://www.lbl.gov/cs/Archive/news030910.html>

4

100

RDAV

RDAV

RDAV

RDAV

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NSF TeraGrid XD

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RDAV

TeraGrid XD

NSF

<http://www.lbl.gov/cs/CSnews/CSnews041210.html>

2010 4

ENISA

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[http://www.enisa.europa.eu/act/rm/files/deliverables/behavioural-biometrics/at\\_download/fullReport](http://www.enisa.europa.eu/act/rm/files/deliverables/behavioural-biometrics/at_download/fullReport)

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[http://www.stdaily.com/kjrb/content/2010-04/08/content\\_172808.htm](http://www.stdaily.com/kjrb/content/2010-04/08/content_172808.htm)

**IBM**

IBM

IBM

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IBM

IBM

<http://bulletin.sciencebusiness.net/ebulletins/showissue.php3?page=/548/art/17504&print=1>

## NASA

NASA

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NASA

web

NASA

NASA

NASA 2010

5900

NEX NASA

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<http://www.informationweek.com/news/government/info-management/showArticle.jhtml?article>

ID=224400442



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