

2010 年

第 11 期 总第 35 期（半月刊）

信息研究与应用

主办：中国科学院信息化工作领导小组办公室 承办：中国科学院国家科学图书馆成都分馆

本期视点：

- 欧盟 BELIEF 项目讨论信息化基础设施的未来
- 日本发布新的 IT 战略案
- 欧洲 2020 战略拟利用 ICT 实现经济发展
- 日本发布“智能云战略”
- 芬兰 IT 科学中心 2009 年度报告回顾信息管理服务
- 美国防部政策官员谈网络安全面临的挑战
- “新一代宽带无线移动通信网”国家科技重大专项 2011 年度课题申报指南
- 美国联邦通信委员会批准国家公共安全网络建设
- 高性能云计算用例指南

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信息化技术与基础设施

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e-Infrastructure

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Council on Competitiveness

Cynthia R. McIntyre e-Infrastructure 21

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DRIHMS

e-Infrastructure

<http://www.beliefproject.org/zero-in/zero-in-fifth-issue/blf-zin-052010-web.pdf>

<http://www.beliefproject.org/zero-in/zero-in-fifth-issue/zero-in-issue-5>

IT

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IT 3
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<http://www.kantei.go.jp/jp/singi/it2/dai53/siryou.pdf>

2020

ICT

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2020-

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1

2020

2013

30 Mbps

100 Mbps

2

ICT

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1

2

SET

2050

ICT

<http://ec.europa.eu/eu2020/pdf/COMPLET%20EN%20BARROSO%20%20%20007%20-%20Europe%202020%20-%20EN%20version.pdf>

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1.

1 ICT

BCP

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http://www.soumu.go.jp/main_content/000066036.pdf

2.0 “ ICT ”

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12

2.0 ICT

1 100%

2015

2 ICT 3%

ICT 2020

ICT 2020

2013

2020 50

2015 2
 2020 5000
 2020 10
 2012
 ICT 2020 35 ICT
 2013 ICT
 ICT 2020 ICT
 ⑪ ICT
 3
 ICT 2020 ICT 10%

http://www.soumu.go.jp/main_content/000064871.pdf

信息化管理与创新

IT 2009
 2010 4 26 IT CSC 2009
 CSC FUNET
 CSC 2009 RAKETTI

1 XDW

2 OPI

eAdministration

3 KOKOA

4 TUTKI

1. XDW

XDW

2009

2010

2010

2. OPI

OPI

ProAMK

OhaTV

2009

3. KOKOA

KOKOA

IT

4. TUTKI

TUTKI

IT

2009

<http://www.csc.fi/english/csc/publications/reports/annualreport2009>

NSF

NSF

NSF

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NSF

NSF

NSF

OCI

DataNet

OCI

Open

Government Directive

NSF

NSF

http://www.nsf.gov/news/news_summ.jsp?cntn_id=116928&WT.mc_id=USNSF_51&WT.mc_e
v=click

IDRC IDRC 1996
IDRC Web

1 IDRC

IDRC 11
2000
2010 ICT
ICT
ICT

2 IDRC

1

IDRC DrumNet

DrumNet

GSM

DrumNet

DrumNet

DrumNet

kiosk

2

1988

INTOX

IDRC

CCOHS

INTOX

60

100

http://www.innovations-report.com/html/reports/information_technology/bridging_digital_divide_154076.html

专家视点

James N. Miller

<http://www.defense.gov/news/newsarticle.aspx?id=59143>

信息化技术与基础设施

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2011

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2011

LTE

LTE-Advanced

1 LTE LTE-Advanced

LTE

LTE-Advanced

2011

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TD-LTE

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TD-LTE

TD-LTE

2

IT

2011

IPv6

3

IMT-Advanced

8% IMT-Advanced

2 3

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IMT-Advanced

IMT-Advanced SON

IMT-Advanced

4

2011

5

2011

M2M 3G/LTE

<http://www.miit.gov.cn/n11293472/n11293832/n11379108/13193523.html>

<http://www.miit.gov.cn/n11293472/n11293832/n11293907/n11368223/13193465.html>

FCC

21

LTE

FCC

LTE

700 MHz

FCC

LTE

1

LTE

HyperSafe

hypervisor

HyperSafe

hypervisor

HyperSafe

non-bypassable memory

lockdown

hypervisor

HyperSafe

restricted pointer

indexing

hypervisor

U.S. Army Research Office

NSF

<http://news.ncsu.edu/releases/wmsjianghypersafe/>

ORNL

Knowledge Acquisition Ubiquitous Agent

Infrastructure KAUI

Java

KAUI ORNL

<http://gcn.com/Articles/2010/05/14/KAUAI-info-mgt-051410.aspx?Page=1>

W3C

XML

XProc

World Wide Web Consortium W3C

XML

XProc

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XML

XSLT

HTML XQuery XSLT-FO

XForms

XProc

W3C

XML

XML

EXI

XML

XML

Linked Data

NoSQL

http://www.devx.com/xml/Article/44823?trk=DXRSS_LATEST

<http://www.w3.org/TR/xproc>

信息化应用与环境

1 http://www.hpcadvisorycouncil.com/advanced_hpc_cloud.php

From Computational Science to Science Discovery: The Next Computing Landscape

2 Google <http://groups.google.com/group/cloud-computing-use-cases?pli=1>

3 http://www.sit.fraunhofer.de/pressedownloads/artikel/bestellung_ccs.jsp SOA

4 Complutense University of Madrid <http://dsa-research.org/doku.php?id=publications:grid:virtualization>

5 <http://arxiv.org/ftp/arxiv/papers/1001/1001.3259.pdf>

6 <http://www.cloudbus.org/reports/EE-SchedulingAcrossClouds-2009.pdf>

7 http://www.snia.org/tech_activities/publicreview/CloudStorageUseCasesv0.5.pdf Storage Network Industry Association SNIA

8 <http://www.silicon.com/white-papers/it-infrastructure/2010/01/01/top-hpc-use-cases-in-life-sciences-60980132/#> Sun

9 LinkedIn <http://hpccloud.org/doku.php> 600

10

<http://www.opennebula.org/start>
<http://necloud.org/>
<http://hpccommunity.org/>
<http://futuregrid.org/>

<http://deisa.eu/>
NIST 2010 3

<http://www.hpcinthecloud.com/features/25-Sources-for-In-Depth-HPC-Cloud-Use-Cases-93886489.html>

<http://www.lansingstatejournal.com/article/20100517/NEWS03/5170323/1004>

NAG GPU

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http://www.innovations-report.com/html/reports/information_technology/gpu_routines_scientific_research_numerical_154077.html

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