

2010 年

第 8 期 总第 32 期（半月刊）

# 信息学研究与应用

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：

- 美国发布 2010 年国家教育技术计划
- 美国、欧洲、亚洲 ICT 战略政策动向
- 日本公布新信息通信技术战略的要点
- 美国国家宽带计划：聚焦网络安全
- 欧盟发布 E-health 协作宣言
- 美国参议院商务委员会通过《网络安全法案》
- OECD 发布《有线宽带网络发展报告》
- 美国启动气候变化预测联合研究计划
- 科学计算软件并行化最新进展

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## 2010

2010 3 5  
Technology

Office of Education  
2010

21

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1.

21

3D

2.

connected teaching

7 24

4.

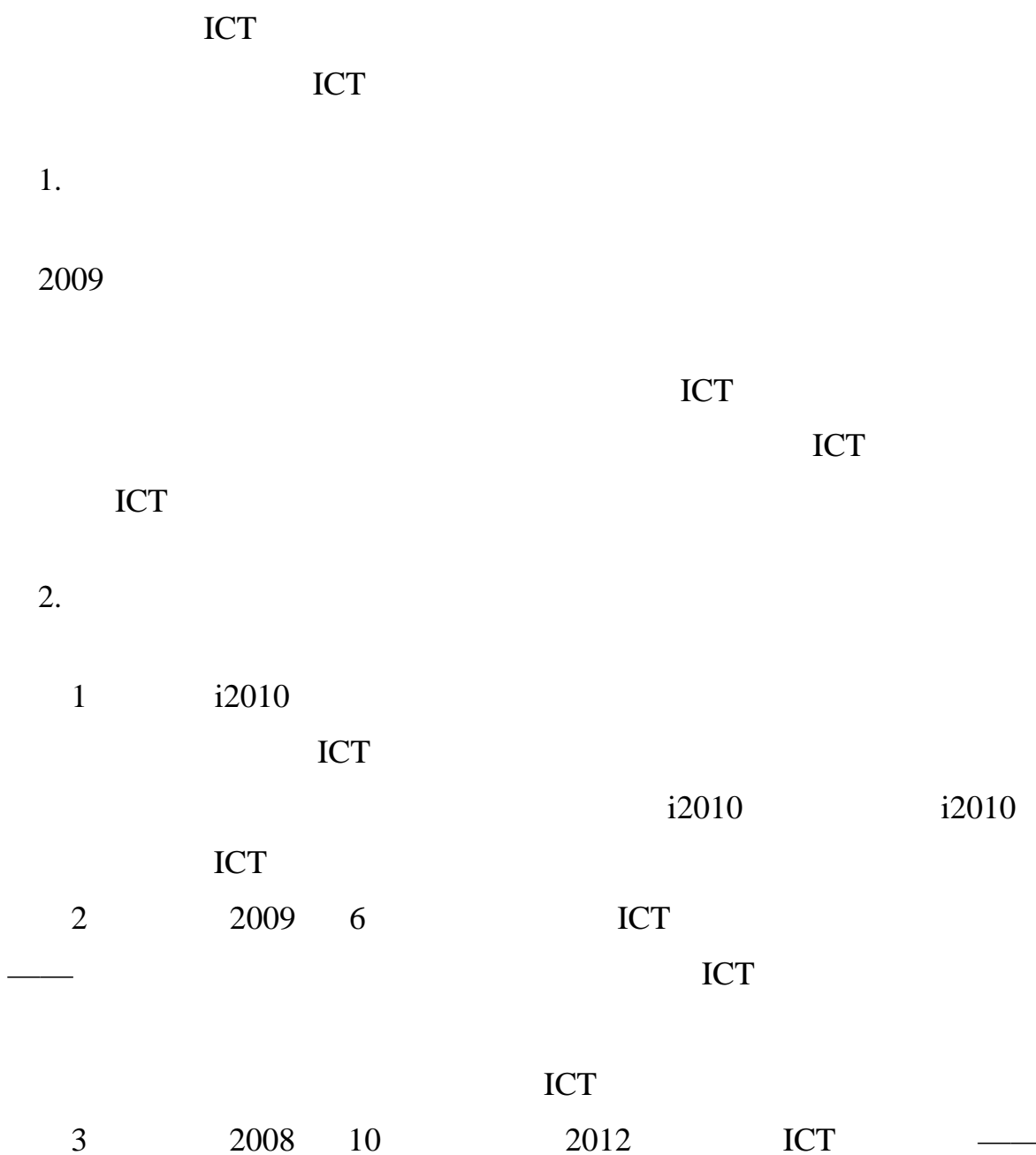
5.

seat-time

10

<http://www.ed.gov/technology/netp-2010>

# ICT



2012  
 ICT GDP 6% 12% 154  
 ICT 2012

3.

1 2009 9 IT  
 2013 GDP 0.5% IT  
 IT 5 5  
 ICT 189 1 =0.0066  
 14.1 175.2  
 2 2015 2015 iN2015  
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3 2009 7 i-Japan 2015  
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<http://www.kantei.go.jp/jp/singi/it2/dai52/siryou3.pdf>

2010 3 16

FCC

The National Broadband Plan

2009

72

IP



1.

1 -

SBA

2

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5 FCC

2 FCC

FCC

1 180

2 ISPs

3 FCC ① FCC

VoIP ②

③

4 IP

5 NCS

6

<http://tech.sina.com.cn/i/2010-03-29/16443998773.shtml>

2010 3 24

24

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[http://news.xinhuanet.com/tech/2010-03/25/content\\_13242454.htm](http://news.xinhuanet.com/tech/2010-03/25/content_13242454.htm)

Lord Jopling

ENISA

ENISA

3

E-health

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E-health

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E-health

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E-health

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E-health

## 5. E-health

1 E-health

2

3 E-health

[http://ec.europa.eu/information\\_society/newsroom/cf/itemdetail.cfm?item\\_id=5706](http://ec.europa.eu/information_society/newsroom/cf/itemdetail.cfm?item_id=5706)

[http://ec.europa.eu/information\\_society/newsroom/cf/document.cfm?action=display&doc\\_id=658](http://ec.europa.eu/information_society/newsroom/cf/document.cfm?action=display&doc_id=658)

## OECD

2010 3 OECD

OECD

1

DBS

IPTV

DTT

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2

40%

70%

3 10 OECD

4

DOCSIS 3.0

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IP

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VoIP

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OECD

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10 OECD

DSL

DSL

FTTH

# NIST

2010 3 18

NIST

SCM

SCM

SCM

SCM

1 SCM

SCM

SCM

2

configuration items CIs

3

4

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## SCAP

[http://csrc.nist.gov/publications/drafts/800-128/draft\\_sp800-128-ipd.pdf](http://csrc.nist.gov/publications/drafts/800-128/draft_sp800-128-ipd.pdf)

2010 3 24

## IPA

1.

1

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2.

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IPA

KVM

4.

IT

[http://www.ipa.go.jp/about/research/2009cloud/pdf/100324\\_cloud\\_extract.pdf](http://www.ipa.go.jp/about/research/2009cloud/pdf/100324_cloud_extract.pdf)

## ENISA

ENISA

Cloud Security Alliance

· Jim Reavis

—

University of Namur IT

<http://www.computerweekly.com/Articles/2010/03/26/240731/cloud-security-weaknesses-prompt-call-for-global-data-protection.htm>

## iSGTW

1	Excel			Excel			
		excel		Windows HPC		2008 R2	
2	Maple	Maple	2007				Maple
	2009	4	27	Maple13			
3	Mathematica	2005		Mathematica			
	CPU		CPU			2008	
				Mathematica			
	Mathematica						CPU
4	Matlab	MATLAB					
				spmd			
5	Stata	2009	7	Stata	Stata 11	Stata/MP	
109				Mata	Stata/MP		

6 Statistica StatSoft 2004 1  
WebSTATISTICA Statistica

StatSoft

<http://www.isgtw.org/?pid=1002446>

2010 3 30 NICT  
NTT NEC

NICT  
NTT

NEC

<http://www2.nict.go.jp/pub/whatsnew/press/h21/100330/100330.html>

Sort Benchmark      JouleSort      1TB  
0.2

<http://www.networkworld.com/news/2010/032910-uk-technology-development-centres-to.html>

2010	3	22		DOE		USDA
			NSF			

### Decadal and Regional Climate Prediction Using Earth System

Models EaSM

1

EaSM		2014		2010		NSF
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DOE	USDA		3000	1000	900	
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2

NSF

DOE

USDA

3

EaSM

①EaSM

②EaSM

<http://www.energy.gov/news/8777.htm>

### e-Learning

		e-Learning		2009
e-Learning			e-Learning	
				2009
e-Learning		2.910	17	
11.8%	e-Learning	1368	19.5%	14.2%
13.4%			4.7%	22679
	1256			
	6	19	e-Learning	50
	30			
e-Learning			e-Learning	
38.0%		26.6%	26.4%	17.1%
		27.7%	15.5%	e-Learning
	1.9%		1.8%	
0.9%				
	e-Learning	80.0%	3.2	
		e-Learning	76.4%	
17.0				

<http://www.online-edu.org/newweb/html/2010/1122.html>

## 2009

2010 3 30

CNNIC

CNCERT

2009

2009

52%

153

4.4%

8%

21.2%

43.9%

61.7%

<http://www.cnnic.net.cn/html/Dir/2010/03/30/5805.htm>



# 内部刊物

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