

编者按： 20

	Big Data	Volume	Velocity
Variety	Value		
		2012 3	"
		1993 "	"
1985	"	"	"
7 "	"	"	"
2014			2015

大数据时代的汉语国别化教材研发 ——兼论教材实时修订功能

361005

361102

收稿日期:2015-02-15

作者简介:

Email tongtao@xmu.edu.cn

Email xiaoyanzeng0313@163.com

项目基金:

ZX2014029

摘要：

①
③ ②
⑤ ④
" "

关键词：

中图分类号:H195 文献标志码:A 文章编号:2221-9056 2016 03-0291-12

DOI 编码:10.14095/j.cnki.oce.2016.03.001

textbook

2015

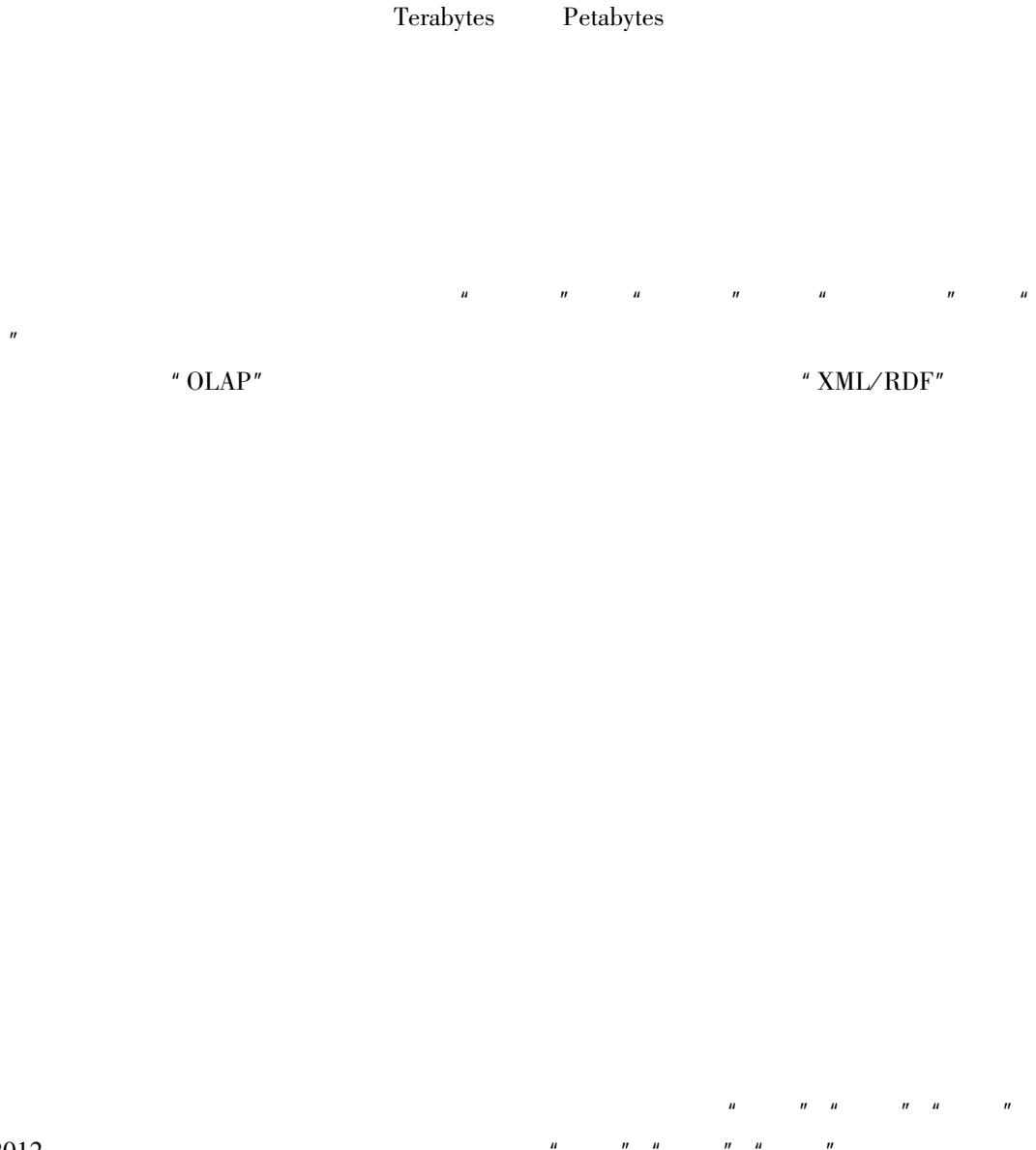
" "

134

1500

21

Facebook Twitter



1.

2012

2.

3.

4.

5.

6.

" " "

7.

QQ Skype

8.

1.

Tables/Transaction/Legacy Data
XML web
" RDF"

2.

3.

4.

XML
Search

MapReduce

SQL Impala

Cloudera

5.

6.

Speech corpus

Spoken corpus

" " " "

" " " " " " "

" "

" "

" U.S. Department of Education Office of Educational Technology 2010 35 Philip J. Goldstein 2005
performance analysis what-if decision support predictive modeling
automatic response triggers May 2011

"

"

"

1.

Mayer-Schönberger & Cukier 2013

"

"

" "

2014

2.

Mehrabian 1967 38%
7% 55%
2-2.5

Giora 1997

"

" Graded Salience Hypothesis

" " " "

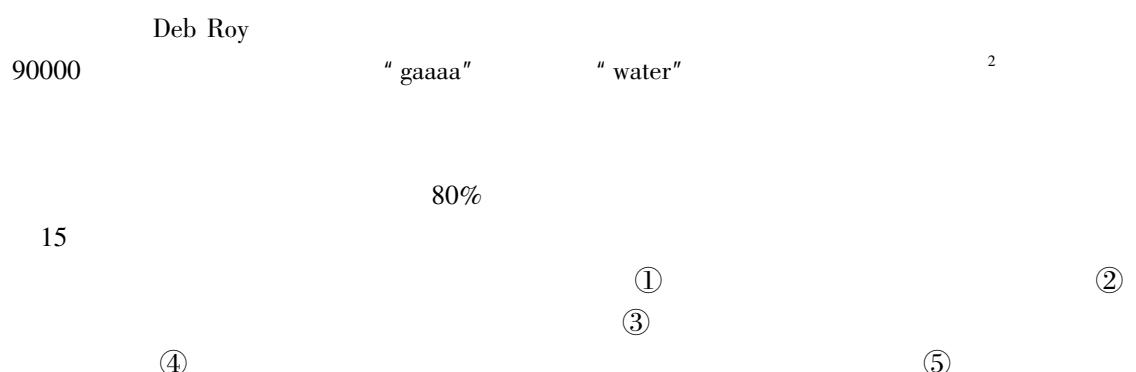
(1)

" "

(2)

(3)

(4)



IOS ePUB Android tablets MOBI Amazon Kindle
/IPad/

HTML iBook IPad and Mac

/

注释：

- 1 Gabrielatos Costas. Corpora and Language Teaching Just a fling or wedding bells . Teaching English as a Second or Foreign Language.2005 8 4 1-37. EB/OL .<http://www.tesl-ej.org/ej32/a1.html>. 2015-5-6.
- 2 Deb Roy. The birth of a word EB/OL .<http://blog.ted.com/ted-weekends-big-data-gets-personal-2/>. 2013-02-09.

参考文献：

					2014
		2014	1		
		2012	5		
"	"	2015	4		
				2012	6
<hr/>					
2015	4				
EDU2.0		2010	1		
"		2010	1		

- ity. 2014 5 1–13.
- Lisrw. *The Potential of Learning Analytics and Big Data*. Published on Ariadne. 2013.
- Long P. D. & Siemens G.. Penetrating the fog Analytics in learning and education. *EDUCAUSE Review*. 2011.
- Lovett M. Meyer O. Thille C. The Open Learning Initiative Measuring the effectiveness of the OLI learning course in accelerating student learning. *Journal of Interactive Media in Education*. 2008.
- Manyika J. Chui M. Brown B. et al. The Big Data The Next Frontier for Innovation Competition and the Productivity EB/OL .http://www.mckinsey.com/insights/business_technology/big_data_the_next_frontier_for_innovation. 2011-05-1.
- Mayer-Schönberger V. & Cukier K. Big Data A Revolution that Will Transform How We Live. *Work and Think*. Boston Houghton Mifflin Harcourt 2003.
- May T. A. 2011 . Analytics University 3.0 and the future of information technology. *EDUCAUSE Review* EB/OL .
<http://net.educause.edu/ir/library/pdf/ERM1159.pdf>. 2011-09-1.
- Mehrabian A. and Wiener M. Decoding of inconsistent communications. *Journal of personality and social psychology* 1967 6 1 109 – 114.
- Philip J. Goldstein. Academic analytics The uses of management information and technology in higher education. EDUCAUSE Center for Applied Research EB/OL .<http://net.educause.edu/ir/library/pdf/ekf/ekf0508.pdf>. 2005-12-1.
- Sylviane Granger. Computer Learner Corpus Research Current Status and Future Prospects. In *Language and Computers Applied Corpus Linguistics A Multidimensional Perspective* 2005 23 123–145.
- The Davos World Economic Forum. Big Data Big Impact New possibilities for International Development 2012. EB/OL .<http://www.weforum.org/reports/big-data-big-impact-new-possibilities-international-development>. 2012-01-22.
- U.S. Department of Education Office of Educational Technology. *Transforming American Education Learning Powered by Technology* Washington D.C. 2010.
- U.S. Department of Education Office of Educational Technology. *Enhancing Teaching and Learning Through Educational Data Mining and Learning Analytics*. Washington D.C. 2012.
- Wei Fan. & Albert Bifet. Mining Big Data Current Status and Forecast to the Future. *SIGKDD Explorations* 2013 14 2 1–5.

Study on Development of Chinese Country-specific Teaching Materials Based on Big Data

ZHENG Tongtao & ZENG Xiaoyan

Collaborative Innovation Center for Peaceful Development of Cross–Strait Relations

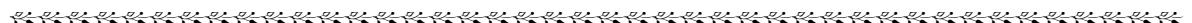
Xiamen University Xiamen 361005 China

Overseas Education College Xiamen University Xiamen 361102 China

Abstract The record form of human language has great diversity. Traditional textbooks can neither provide support for the development of digital teaching and individualized teaching nor meet the demand of various types and levels of learning. Big data can provide a new perspective for the development of Chinese country-specific teaching materials. The linguistic data in the era of big data has eight characteristics complexity dynamicity authenticity universality historicality interdisciplinary and multimedia and accessibility. There are five reasons for the development of Chinese country-specific teaching materials the basement of the source of the teaching materials teaching resources based on big data he innov-

vation of the teaching material extract the oral features the trend of the teaching materials' development learners' learning behavior analysis The accept or reject of the teaching materials the language cognitive process and multiple sensory systems The arrangement of the teaching materials "Graded Salience Hypothesis". There are also four principles of development including analysis based on the learning behavior language product based on the multiple sensory systems development of teaching materials based on the corpus design and the real-time revise of teaching materials development based on the complex dynamic data.

Key words big data complex dynamic system Teaching Chinese as a Second Language country-specific teaching materials corpus



首届语言类型与汉语特征国际学术研讨会

第一号通知

2016

12 17-19

1.

1

2

3

4

2.

1

2

3

12 Times New Roman

A4

4

WORD PDF

3.

2016 10

30

4.

1 2016 9 30

2 2016 10 30

3 2016 12 17 -19

5.

hwjydt@xmu.edu.cn

0592-2187029 15980961283