

Tóm tắt văn bản

Lê Thanh Hương

Bộ môn Hệ thống thông tin

Khoa CNTT - ĐHBKHN

The BIG problem

- Quá tải thông tin: 3 tỉ+ URLs theo danh sách của Google
- Các cách giải quyết:
 - tìm kiếm thông tin
 - phân cụm văn bản
 - trích rút thông tin
 - hiển thị trực quan
 - hỏi đáp
 - tóm tắt văn bản

Một số khái niệm

- **TT trích rút** là quá trình xác định các câu quan trọng trong văn bản nguồn và đưa vào bản tóm tắt.
- **TT tóm lược** áp dụng các kỹ thuật XLNNTN để cắt-dán các phần quan trọng từ văn bản nguồn, có thể kết hợp với các từ, ngữ bên ngoài để tạo ra bản tóm tắt.

Các kiểu tóm tắt


- Theo số lượng
 - đơn / đa văn bản
- Theo nội dung
 - Hướng truy vấn / tóm tắt chung
- Theo thể loại
 - Headlines
 - Tóm tắt cốt truyện
 - Tóm tắt tiểu sử
 - Tóm tắt nội dung phim
 - ...

ProSum - Netscape

File Edit View Go Communicator Help


Back Forward Reload Home Search **Guide** Print Security Stop

Bookmarks Location: ftob.sourcen%26profile%3d%26compact%3don%26mode%3dp%26percent%3d27%26words%3d178




ProSum

... on-line



URL or text:

Optional profile - keywords and phases:



Reset **Help**

Summarise

☐ compact display

☒ 27 percent


☐ 17% words

☐ lesser of above

25p will be charged for each **new** URL or text. **Resubmits are free.**

Max text entry: 30k, Max page length: 100k

Summarisation may alter the emphasis or meaning of a document. BT accepts no responsibilities for any consequences arising from this. BT also accepts no responsibility for any infringement of copyright resulting from the use of the ProSum text summariser. [Terms and Conditions](#)

You will need to purchase  in order to use this service.

Example (New York Times)

Net Tax Moratorium Clears House

The House passed a bill to extend the current moratorium on new Internet taxes until 2006.

The moratorium forbids states from trying to find new ways of taxing Internet use, like imposing taxes on monthly access charges for Internet service providers.

House Votes to Ban Internet Taxes for 5 More Years

By LIZETTE ALVAREZ

WASHINGTON, May 10 -- In a Republican bid to woo the high-technology industry and please taxpayers, the House today rushed to the floor and then handily passed a bill to extend the current moratorium on new Internet taxes until 2006.

The moratorium, which is due to expire in October 2001, forbids states to try to find new ways of taxing Internet use, like imposing taxes on monthly access charges for Internet service providers.

The legislation passed today, which faces an uncertain future in the Senate, does not directly address the question of sales taxes; it would not stop states from trying to collect taxes for goods sold on the Internet.

By failing to address sales taxes, however, the measure alarmed some traditional retailers, as well as state governments that say they have found it nearly impossible to collect taxes for goods sold online.

"The single largest contributor to our economic prosperity has been the growth of information technology -- the Internet," said

Representative John R. Kasich, an Ohio Republican. "Why would we try to tax something, why would we try to abuse something, why would we try to limit something that generates unprecedented growth, wealth, opportunity and unprecedented individual power?"

Critics of the bill say the moratorium, while seemingly benign, ignores the thorny question of how state and local governments can best collect taxes on the billions of dollars of merchandise sold over the Internet each year. These taxes are expected to provide a crucial future source of revenue for states, especially as more consumers buy goods online.

The bill's opponents -- a consortium of retailers, small-business groups and governors -- say that consumers who buy merchandise over the Internet can easily circumvent the sales and "use" taxes that would be collected automatically if the same merchandise is bought at a bricks-and-mortar retail store.

The National Governors' Association is working on the best way to collect electronic sales tax. Estimates have put the loss in sales tax revenue to the states at \$8 billion a year by 2004.

Retailers and small businesses have complained that the current system unfairly places at a disadvantage the traditional retailers that do not sell their wares online and must charge sales tax.

"It's easy to imagine how these kinds of losses can affect state and local governments' ability to provide essential services," said Representative William D. Delahunt, a Massachusetts Democrat, citing the concerns of many governors. "They will be compelled to cut back local services or raise income taxes or property taxes."

The bill even drew criticism from a few Republicans. Representative Ernest J. Istook Jr. of Oklahoma circulated a letter stating, "The Internet should not be singled out to be taxed, nor to be freed from tax."

Still, the House voted overwhelmingly, 352 to 75, to pass the bill. A number of Democrats approved the measure after they received assurance that Congress would hold hearings concerning sales taxes and would try to come up with a solution.

The moratorium "has absolutely nothing to do with the sales tax -- we will have the opportunity to have that debate," said Representative Robert Goodlatte, a Virginia Republican.

The House bill faces a murkier future in the Senate. Senator John McCain, chairman of the Commerce Committee, who advocates a permanent tax moratorium, canceled a hearing on the bill last month after Republican senators, some of them former governors, expressed reservations about extending the moratorium.

The legislation also faces opposition from the Clinton administration, which signaled support today for a two-year moratorium. The full House today rejected a two-year extension in a separate vote.

Gov. George W. Bush, the likely Republican presidential nominee, has said he will support an extension of the moratorium. But the governor must tread carefully around the issue because Texas, which does not have a state income tax, would stand to lose substantial revenue if sales taxes are not made workable on the Internet.

A spokesman for Al Gore said the vice president supported a two-year extension of the moratorium "at a minimum." If a five-year moratorium is put into place, "it should include flexibility" to adjust federal policies on Internet taxation "to take into account the fast-paced change in the Internet world."

Microsoft Autosummarize output - 10% summary

House Votes to Ban Internet Taxes for 5 More Years

By LIZETTE ALVAREZ

WASHINGTON, May 10 -- In a Republican bid to woo the high-technology industry and please taxpayers, the House today rushed to the floor and then handily passed a bill to extend the current moratorium on new Internet taxes until 2006.

The moratorium, which is due to expire in October 2001, forbids states to try to find new ways of taxing Internet use, like imposing taxes on monthly access charges for Internet service providers.

The legislation passed today, which faces an uncertain future in the Senate, does not directly address the question of sales taxes; it would not stop states from trying to collect taxes for goods sold on the Internet.

By failing to address sales taxes, however, the measure alarmed some traditional retailers, as well as state governments that say they have found it nearly impossible to collect taxes for goods sold online.

"The single largest contributor to our economic prosperity has been the growth of information technology -- the Internet," said

Representative John R. Kasich, an Ohio Republican. "Why would we try to tax something, why would we try to abuse something, why would we try to limit something that generates unprecedented growth, wealth, opportunity and unprecedented individual power?"

Critics of the bill say the moratorium, while seemingly benign, ignores the thorny question of how state and local governments can best collect taxes on the billions of dollars of merchandise sold over the Internet each year. These taxes are expected to provide a crucial future source of revenue for states, especially as more consumers buy goods online.

The bill's opponents -- a consortium of retailers, small-business groups and governors -- say that consumers who buy merchandise over the Internet can easily circumvent the sales and "use" taxes that would be collected automatically if the same merchandise is bought at a bricks-and-mortar retail store.

The National Governors' Association is working on the best way to collect electronic sales tax. Estimates have put the loss in sales tax revenue to the states at \$8 billion a year by 2004.

Microsoft Autosummarize output - 10% summary

Retailers and small businesses have complained that the current system unfairly places at a disadvantage the traditional retailers that do not sell their wares online and must charge sales tax.

"It's easy to imagine how these kinds of losses can affect state and local governments' ability to provide essential services," said Representative William D. Delahunt, a Massachusetts Democrat, citing the concerns of many governors. "They will be compelled to cut back local services or raise income taxes or property taxes."

The bill even drew criticism from a few Republicans. Representative Ernest J. Istook Jr. of Oklahoma circulated a letter stating, "The Internet should not be singled out to be taxed, nor to be freed from tax."

Still, the House voted overwhelmingly, 352 to 75, to pass the bill. A number of Democrats approved the measure after they received assurance that Congress would hold hearings concerning sales taxes and would try to come up with a solution.

The moratorium "has absolutely nothing to do with the sales tax -- we will have the opportunity to have that debate," said Representative Robert Goodlatte, a Virginia Republican.

The House bill faces a murkier future in the Senate. Senator John McCain, chairman of the Commerce Committee, who advocates a permanent tax moratorium, canceled a hearing on the bill last month after Republican senators, some of them former governors, expressed reservations about extending the moratorium.

The legislation also faces opposition from the Clinton administration, which signaled support today for a two-year moratorium. The full House today rejected a two-year extension in a separate vote.

Gov. George W. Bush, the likely Republican presidential nominee, has said he will support an extension of the moratorium. But the governor must tread carefully around the issue because Texas, which does not have a state income tax, would stand to lose substantial revenue if sales taxes are not made workable on the Internet.

A spokesman for Al Gore said the vice president supported a two-year extension of the moratorium "at a minimum." If a five-year moratorium is put into place, "it should include flexibility" to adjust federal policies on Internet taxation "to take into account the fast-paced change in the Internet world."

Microsoft Autosummarize output - 25% summary

House Votes to Ban Internet Taxes for 5 More Years

By LIZETTE ALVAREZ

WASHINGTON, May 10 -- In a Republican bid to woo the high-technology industry and please taxpayers, the House today rushed to the floor and then handily passed a bill to extend the current moratorium on new Internet taxes until 2006.

The moratorium, which is due to expire in October 2001, forbids states to try to find new ways of taxing Internet use, like imposing taxes on monthly access charges for Internet service providers.

The legislation passed today, which faces an uncertain future in the Senate, does not directly address the question of sales taxes; it would not stop states from trying to collect taxes for goods sold on the Internet.

By failing to address sales taxes, however, the measure alarmed some traditional retailers, as well as state governments that say they have found it nearly impossible to collect taxes for goods sold online.

"The single largest contributor to our economic prosperity has been the growth of information technology -- the Internet," said

Representative John R. Kasich, an Ohio Republican. "Why would we try to tax something, why would we try to abuse something, why would we try to limit something that generates unprecedented growth, wealth, opportunity and unprecedented individual power?"

Critics of the bill say the moratorium, while seemingly benign, ignores the thorny question of how state and local governments can best collect taxes on the billions of dollars of merchandise sold over the Internet each year. These taxes are expected to provide a crucial future source of revenue for states, especially as more consumers buy goods online.

The bill's opponents -- a consortium of retailers, small-business groups and governors -- say that consumers who buy merchandise over the Internet can easily circumvent the sales and "use" taxes that would be collected automatically if the same merchandise is bought at a bricks-and-mortar retail store.

The National Governors' Association is working on the best way to collect electronic sales tax. Estimates have put the loss in sales tax revenue to the states at \$8 billion a year by 2004.

Microsoft Autosummarize output - 25% summary

Retailers and small businesses have complained that the current system unfairly places at a disadvantage the traditional retailers that do not sell their wares online and must charge sales tax.

"It's easy to imagine how these kinds of losses can affect state and local governments' ability to provide essential services," said Representative William D. Delahunt, a Massachusetts Democrat, citing the concerns of many governors. "They will be compelled to cut back local services or raise income taxes or property taxes."

The bill even drew criticism from a few Republicans. Representative Ernest J. Istook Jr. of Oklahoma circulated a letter stating, "The Internet should not be singled out to be taxed, nor to be freed from tax."

Still, the House voted overwhelmingly, 352 to 75, to pass the bill. A number of Democrats approved the measure after they received assurance that Congress would hold hearings concerning sales taxes and would try to come up with a solution.

The moratorium "has absolutely nothing to do with the sales tax -- we will have the opportunity to have that debate," said Representative Robert Goodlatte, a Virginia Republican.

The House bill faces a murkier future in the Senate. **Senator John McCain, chairman of the Commerce Committee, who advocates a permanent tax moratorium, canceled a hearing on the bill last month after Republican senators, some of them former governors, expressed reservations about extending the moratorium.**

The legislation also faces opposition from the Clinton administration, which signaled support today for a two-year moratorium. The full House today rejected a two-year extension in a separate vote.

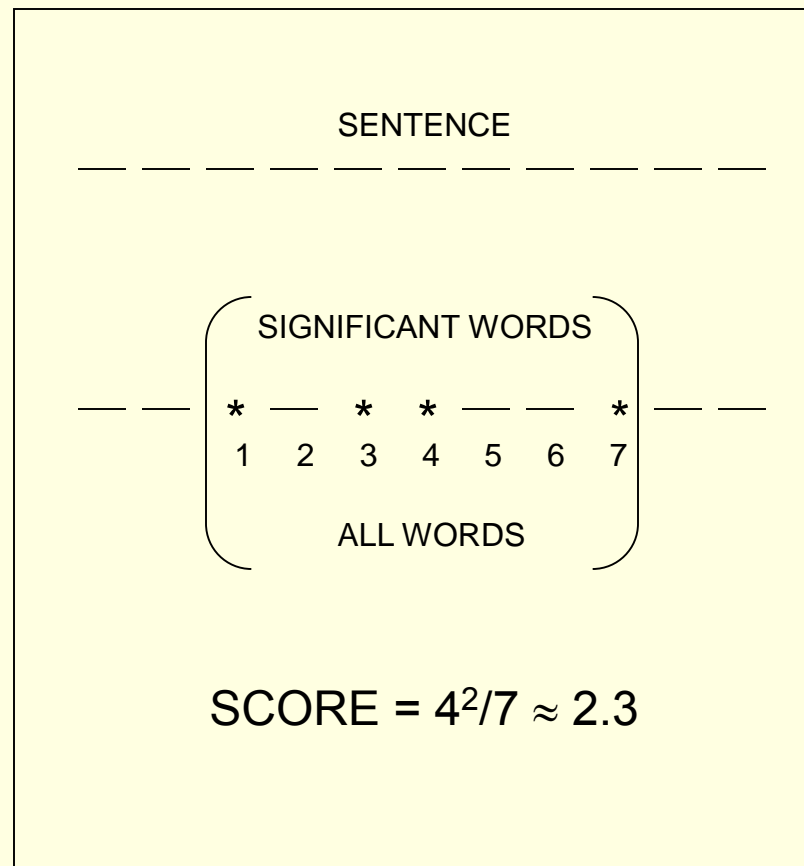
Gov. George W. Bush, the likely Republican presidential nominee, has said he will support an extension of the moratorium. But the governor must tread carefully around the issue because Texas, which does not have a state income tax, would stand to lose substantial revenue if sales taxes are not made workable on the Internet.

A spokesman for Al Gore said the vice president supported a two-year extension of the moratorium "at a minimum." If a five-year moratorium is put into place, "it should include flexibility" to adjust federal policies on Internet taxation "to take into account the fast-paced change in the Internet world."

Cách tiếp cận truyền thống

Luhn 58

- Đo khoảng cách ảnh hưởng
- Từ:
 - gốc từ
 - túi từ
- Câu:
 - tập trung vào các từ điểm cao



Edmundson 69

- Dựa trên từ gợi ý:
 - stigma words (“hardly”, “impossible”)
 - bonus words (“significant”)
- Dựa trên từ khóa
- Dựa trên tiêu đề
- Dựa trên vị trí:
 - các câu sau câu tiêu đề
 - các câu gần đầu/cuối tài liệu/đoạn

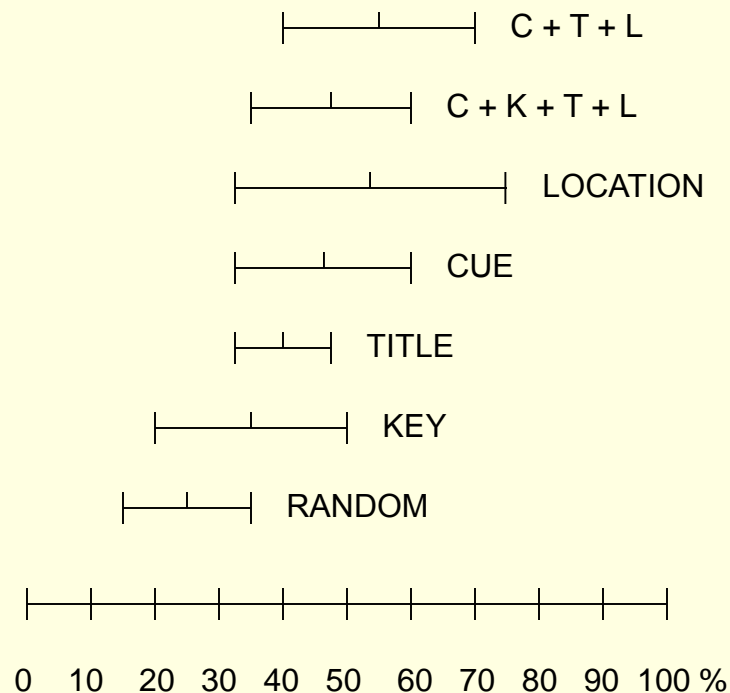
Edmundson 69

- Kết hợp tuyến tính 4 yếu tố:

$$\alpha_1 C + \alpha_2 K + \alpha_3 T + \alpha_4 L$$

- Gán nhãn thủ công tập dữ liệu luyện
- Từ khóa không quan trọng

$\mu \pm 1 \sigma$

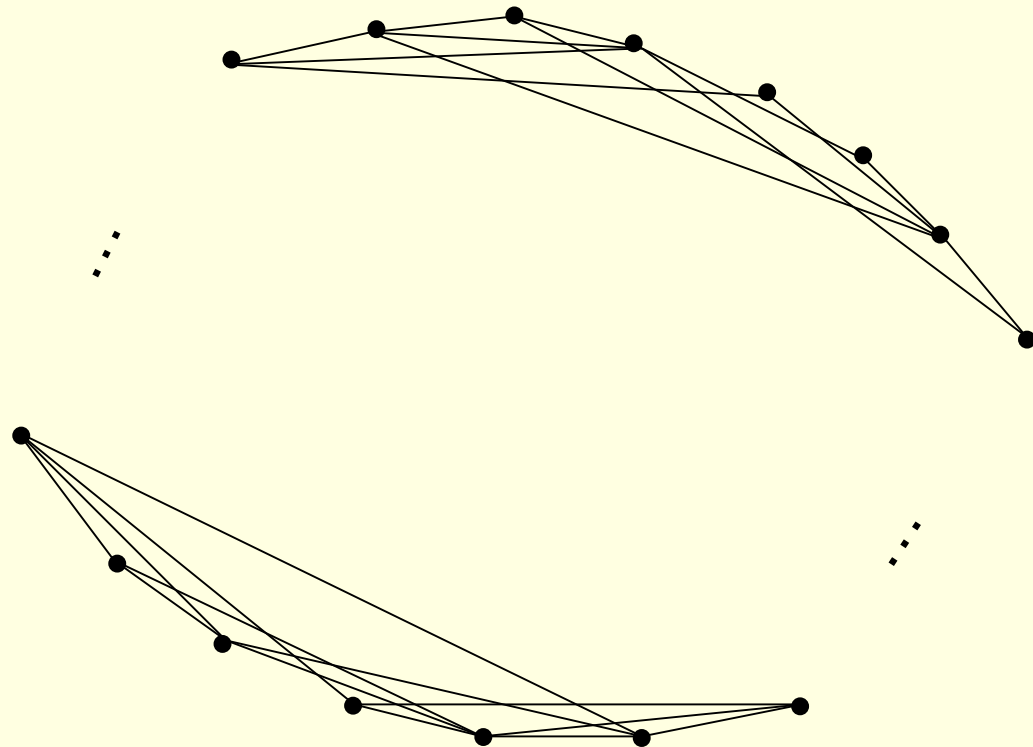


Brandow et al. 95

- ANES: tin tức kinh tế từ 41 nhà xuất bản (20,997 tài liệu)
- từ được chọn dựa trên $tf*idf$
- các đặc trưng dựa trên câu:
 - từ hiệu
 - vị trí
 - từ đồng tham chiếu
 - độ dài bản tóm tắt

Salton et al. 97

- phân tích tài liệu dựa trên liên kết nghĩa giữa các cặp đoạn - dựa trên độ tương đồng từ vựng
- Các đường nối nhiều đoạn có vẻ chứa thông tin chính của tài liệu



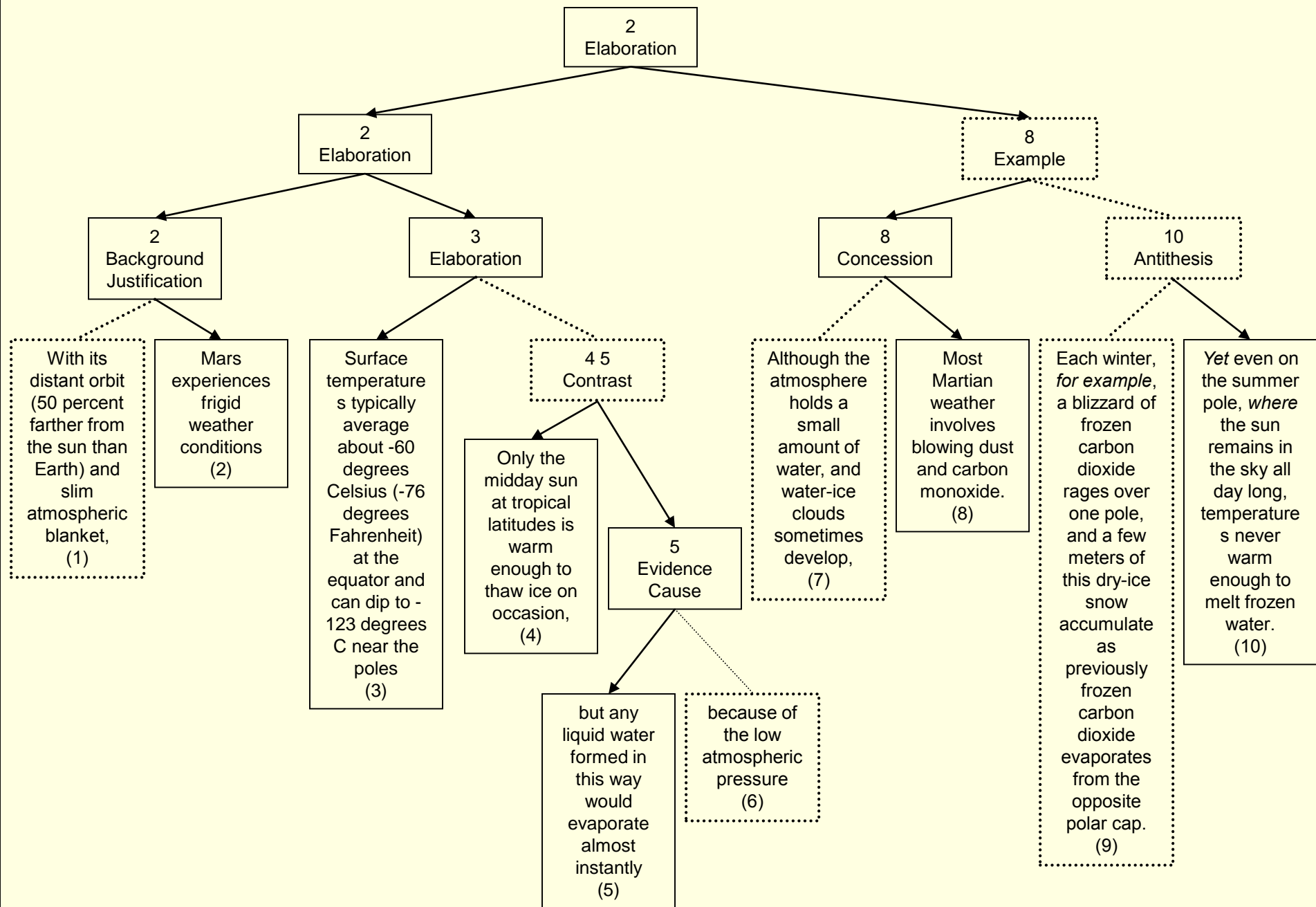
Salton et al. 97

Sự trùng nhau giữa các bản tóm tắt thủ công: 46%

Algorithm	Optimistic	Pessimistic	Intersection	Union
Global bushy	45.60%	30.74%	47.33%	55.16%
Global depth-first	43.98%	27.76%	42.33%	52.48%
Segmented bushy	45.48%	26.37%	38.17%	52.95%
Random	39.16%	22.07%	38.47%	44.24%

Marcu 97-99

- Dựa trên RST
- RST: rhetorical structure theory, phát hiện các quan hệ chính - phụ
 - VD: bằng chứng (evidence)
 - [The truth is that the pressure to smoke in junior high is greater than it will be any other time of one's life:][we know that 3,000 teens start smoking each day.]
 - Evidence: Kết hợp C - P tăng sự tin tưởng của người đọc vào C
- dựa trên sự kết nối văn bản
- so khớp các thành phần quan trọng nhất trong tài liệu: 70% P và R

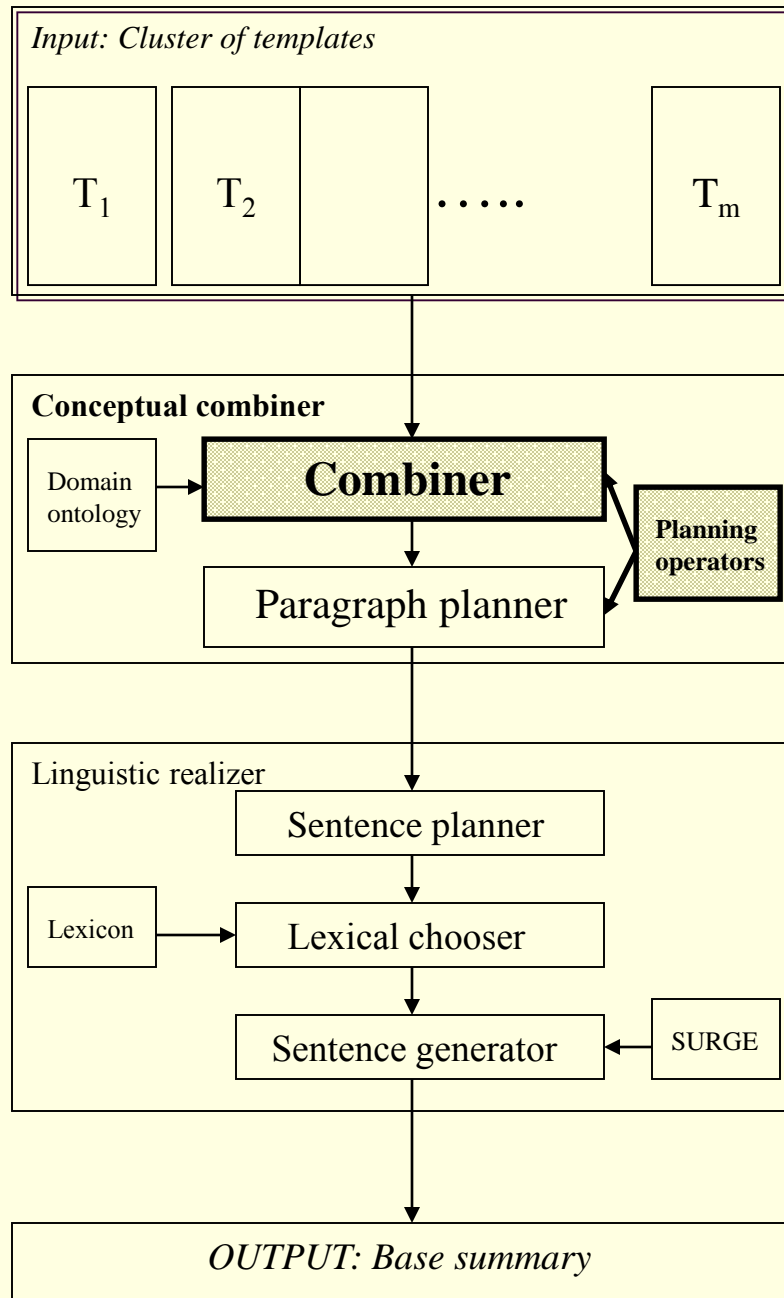


Các cách tiếp cận dựa trên tri thức

Radev and McKeown 98

Sinh văn bản từ các mẫu

MESSAGE: ID	TST3-MUC4-0010
MESSAGE: TEMPLATE	2
INCIDENT: DATE	30 OCT 89
INCIDENT: LOCATION	EL SALVADOR
INCIDENT: TYPE	ATTACK
INCIDENT: STAGE OF EXECUTION	ACCOMPLISHED
INCIDENT: INSTRUMENT ID	
INCIDENT: INSTRUMENT TYPE	
PERP: INCIDENT CATEGORY	TERRORIST ACT
PERP: INDIVIDUAL ID	"TERRORIST"
PERP: ORGANIZATION ID	"THE FMLN"
PERP: ORG. CONFIDENCE	REPORTED: "THE FMLN"
PHYS TGT: ID	
PHYS TGT: TYPE	
PHYS TGT: NUMBER	
PHYS TGT: FOREIGN NATION	
PHYS TGT: EFFECT OF INCIDENT	
PHYS TGT: TOTAL NUMBER	
HUM TGT: NAME	
HUM TGT: DESCRIPTION	"1 CIVILIAN"
HUM TGT: TYPE	CIVILIAN: "1 CIVILIAN"
HUM TGT: NUMBER	1: "1 CIVILIAN"
HUM TGT: FOREIGN NATION	
HUM TGT: EFFECT OF INCIDENT	DEATH: "1 CIVILIAN"
HUM TGT: TOTAL NUMBER	



Tóm tắt từ nhiều bản tin

1	JERUSALEM - A Muslim suicide bomber blew apart 18 people on a Jerusalem bus and wounded 10 in a mirror-image of an attack one week ago. The carnage could rob Israel's Prime Minister Shimon Peres of the May 29 election victory he needs to pursue Middle East peacemaking. Peres declared all-out war on Hamas but his tough talk did little to impress stunned residents of Jerusalem who said the election would turn on the issue of personal security.
2	JERUSALEM - A bomb at a busy Tel Aviv shopping mall killed at least 10 people and wounded 30, Israel radio said quoting police. Army radio said the blast was apparently caused by a suicide bomber. Police said there were many wounded.
3	A bomb blast ripped through the commercial heart of Tel Aviv Monday, killing at least 13 people and wounding more than 100. Israeli police say an Islamic suicide bomber blew himself up outside a crowded shopping mall. It was the fourth deadly bombing in Israel in nine days. The Islamic fundamentalist group Hamas claimed responsibility for the attacks, which have killed at least 54 people. Hamas is intent on stopping the Middle East peace process. President Clinton joined the voices of international condemnation after the latest attack. He said the "forces of terror shall not triumph" over peacemaking efforts.
4	TEL AVIV (Reuter) - A Muslim suicide bomber killed at least 12 people and wounded 105, including children, outside a crowded Tel Aviv shopping mall Monday, police said. Sunday, a Hamas suicide bomber killed 18 people on a Jerusalem bus. Hamas has now killed at least 56 people in four attacks in nine days. The windows of stores lining both sides of Dizengoff Street were shattered, the charred skeletons of cars lay in the street, the sidewalks were strewn with blood. The last attack on Dizengoff was in October 1994 when a Hamas suicide bomber killed 22 people on a bus.

4 khuôn mẫu

<p>MESSAGE: ID SECSOURCE: SOURCE SECSOURCE: DATE PRIMSOURCE: SOURCE INCIDENT: DATE INCIDENT: LOCATION INCIDENT: TYPE HUM TGT: NUMBER</p> <p>1</p> <p>PERP: ORGANIZATION ID</p>	<p>TST-REU-0001 Reuters March 3, 1996 11:30</p> <p>March 3, 1996 Jerusalem Bombing "killed: 18" "wounded: 10"</p>	<p>MESSAGE: ID SECSOURCE: SOURCE SECSOURCE: DATE PRIMSOURCE: SOURCE INCIDENT: DATE INCIDENT: LOCATION INCIDENT: TYPE HUM TGT: NUMBER</p> <p>2</p> <p>PERP: ORGANIZATION ID</p>	<p>TST-REU-0002 Reuters March 4, 1996 07:20 Israel Radio March 4, 1996 Tel Aviv Bombing "killed: at least 10" "wounded: more than 100"</p>
<p>MESSAGE: ID SECSOURCE: SOURCE SECSOURCE: DATE PRIMSOURCE: SOURCE INCIDENT: DATE INCIDENT: LOCATION INCIDENT: TYPE HUM TGT: NUMBER</p> <p>3</p> <p>PERP: ORGANIZATION ID</p>	<p>TST-REU-0003 Reuters March 4, 1996 14:20</p> <p>March 4, 1996 Tel Aviv Bombing "killed: at least 13" "wounded: more than 100" "Hamas"</p>	<p>MESSAGE: ID SECSOURCE: SOURCE SECSOURCE: DATE PRIMSOURCE: SOURCE INCIDENT: DATE INCIDENT: LOCATION INCIDENT: TYPE HUM TGT: NUMBER</p> <p>4</p> <p>PERP: ORGANIZATION ID</p>	<p>TST-REU-0004 Reuters March 4, 1996 14:30</p> <p>March 4, 1996 Tel Aviv Bombing "killed: at least 12" "wounded: 105"</p>

Bản tóm tắt trôi chảy

Reuters reported that 18 people were killed on *Sunday* in a bombing in Jerusalem. *The next day*, a bomb in Tel Aviv killed at least 10 people and wounded 30 according to Israel radio. Reuters reported that *at least 12 people* were killed and *105* wounded *in the second incident*. *Later the same day*, Reuters reported that Hamas has claimed responsibility for the act.

(OUTPUT OF SUMMONS)

Các thao tác

- If there are two templates
 AND
 the location is the same
 AND
 the time of the second template is after the time of the first template
 AND
 the source of the first template is different from the source of the second template
 AND
 at least one slot differs
 THEN
 combine the templates using the contradiction operator...

Các thao tác

Thay đổi thông tin: Cùng nguồn tin nhưng thay đổi nhỏ ở một số chỗ

March 4th, Reuters reported that a bomb in Tel Aviv killed at least 10 people and wounded 30. *Later the same day*, Reuters reported that *exactly 12 people* were *actually* killed and *105* wounded.

Đổi lập: Khác nguồn thông tin, các giá trị khác nhau ở một số chỗ

The afternoon of February 26, 1993, Reuters reported that a suspected bomb killed *at least six people* in the World Trade Center. *However*, Associated Press announced that *exactly five people* were killed in the blast.

Các thao tác

Làm mịn

On Monday morning, Reuters announced that a suicide bomber killed at least 10 people in Tel Aviv. *In the afternoon*, Reuters reported that *Hamas* claimed responsibility for the act.

Thống nhất

The morning of March 1st 1994, *both* UPI and Reuters reported that a man was kidnapped in the Bronx.

Sinh văn bản

According to UPI, three terrorists were arrested in Medellín last Tuesday. Reuters announced that the police arrested two drug traffickers in Bogotá the next day.

A total of five criminals were arrested in Colombia last week.

Đánh giá

	Thuộc bản tóm tắt	Không thuộc bản tóm tắt
Hệ thống chọn	A	B
Hệ thống không chọn	C	D

$$\text{Precision : } P = \frac{A}{A + B}$$

$$\text{Recall : } R = \frac{A}{A + C}$$

$$F = \frac{2PR}{(P + R)}$$

NewsInEssence [Radev & al. 01]

NewsInEssence: Web-based News Summarization - Microsoft Internet Explorer provided by AT&T WorldNet Service

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Copy Paste

Links Customize Links Free Hotmail Windows Media Windows Like Music - Try AOL! WorldNet Customer Care WorldNet Home Page WorldNet Member Services

Address http://www.newsInEssence.com/nie.cgi Go

...www...NewsInEssence...com...

Interactive Multi-source News Summarization

Home
[Current Clusters](#)
[Create Cluster](#)
[Summarize Cluster](#)
[Track Cluster](#)
[User Cluster Archive](#)
[CIDR Cluster Archive](#)
[Google Cluster Archive](#)

Help
[About News InEssence](#)
[Contact Us](#)

CLAIR
MEAD
[summarization.com](#)

4 Killed In Florida Fireworks Blast July 2, 2003 19:10:48

4 Killed In Florida Fireworks Blast July 2, 2003 19:10:48. BONITA SPRINGS, Fla., July 2, 2003 Investigators and firefighters gather at the scene of a tractor-trailer that exploded as workers were unloading fireworks in Bonita Springs, Fla., Wednesday, July 2, 2003. Kevin McKenzie was mowing a strip of grass at Lover's Key about 300 feet from the tractor trailer when the explosion happened at 2:10 p.m., shooting flames and fireworks from the truck.

[\[8 Articles from 7 Sources\]](#) [\[4 Summaries\]](#)

Recent User Clusters (more)

- ['Liberia's Taylor bans church radio station'](#)
11 articles, 3 summaries: 07/02, 9:57 PM
- ['Knesset backs Sharon on roadmap'](#)
7 articles, 3 summaries: 07/01, 11:48 AM
- ['Israel pulls out of Bethlehem'](#)
5 articles, 4 summaries: 07/01, 11:25 AM

Recent CIDR Clusters (more)

- ['Bush challenge to Iraq attackers: Bring them on'](#)
25 articles, 4 summaries: 07/02, 7:40 PM
- ['Bill sparks massive Hong Kong protest'](#)
14 articles, 4 summaries: 07/02, 7:40 PM
- ['Edinburgh Evening News - Top Stories - Palestinian police back in Bethlehem'](#)
13 articles, 4 summaries: 07/02, 7:40 PM

NIE Headlines
[Build your own cluster of articles.](#)

NewsTroll from URL:
URL must be from [CNN](#), [Yahoo!](#), [MSNBC](#), [BBC](#), or [USA Today](#).

NewsTroll from query:

[Advanced Options](#)

User Clusters (Archive)

- ['Liberia's Taylor bans church radio station'](#)
11 articles, 3 summaries: 07/02, 9:57 PM
- ['Knesset backs Sharon on roadmap'](#)
7 articles, 3 summaries: 07/01, 11:48 AM
- ['Israel pulls out of Bethlehem'](#)
5 articles, 4 summaries: 07/01, 11:25 AM
- ['India cool on Pakistan offer'](#)
1 article, 3 summaries: 06/25, 10:33 AM

4 Killed In Florida Fireworks Blast July 2, 2003 19:10:48

produced on 07/02, 7:40 PM

2% Summary

4 Killed In Florida Fireworks Blast July 2, 2003 19:10:48 (4:1) BONITA SPRINGS, Fla., July 2, 2003 Investigators and firefighters gather at the scene of a tractor-trailer that exploded as workers were unloading fireworks in Bonita Springs, Fla., Wednesday, July 2, 2003. (4:2)

Done Internet

Birmingham, England, according to police in Vaesteraas, 60 miles northwest of the capital, Stockholm. (7:6) Security officers at Vaesteraas airport found the weapon in a toiletries bag when they scanned the man's hand luggage on Thursday, police spokesman Ulf Palm said. (7:7)

Summaries of all documents: [\[10%\]](#) [\[20%\]](#)

Cluster Documents

Included	Index	Title	Source	Publication Date
<input checked="" type="checkbox"/>	1	Hijack suspect 'denies having gun' [Use As Seed] http://news.bbc.co.uk/1/hi/world/europe/2224395.stm	news.bbc.co.uk	08/30, 5:23 PM
<input checked="" type="checkbox"/>	2	Swedish airport security praised [Use As Seed] http://news.bbc.co.uk/1/hi/world/europe/2225741.stm	news.bbc.co.uk	08/30, 12:34 PM
<input checked="" type="checkbox"/>	3	'It can't get more scary than this' [Use As Seed] http://news.bbc.co.uk/1/hi/world/europe/2225342.stm	news.bbc.co.uk	08/30, 11:10 AM
<input checked="" type="checkbox"/>	4	Hijack suspect 'not attending conference' [Use As Seed] http://news.bbc.co.uk/1/hi/england/2225318.stm	news.bbc.co.uk	08/30, 8:54 AM
<input checked="" type="checkbox"/>	5	Terror experts quiz hijack suspect [Use As Seed] http://www.cnn.com/2002/WORLD/europe/08/30/stockholm.gun/index.html	www.cnn.com	08/30, 5:57 AM
<input checked="" type="checkbox"/>	6	Swede charged with plans to hijack plane [Use As Seed] http://www.msnbc.com/news/801304.asp?cp1=1	www.msnbc.com	08/30, 12:00 AM
<input checked="" type="checkbox"/>	7	Swede faces attempt hijack charge [Use As Seed] http://www.msnbc.com/news/801297.asp	www.msnbc.com	08/29, 12:00 AM



Redraw

Reset

Compression:

10%

Summarize

Track This Topic: Receive an update on this topic via email



Email:

Time:

Now!

Go

Newsblaster [McKeown & al. 02]

Columbia Newsblaster: Summarizing All the News on the Web - Microsoft Internet Explorer provided by AT&T WorldNet Service

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Mail

Links Customize Links Free Hotmail Windows Media Windows Like Music - Try AOL! WorldNet Customer Care WorldNet Home Page WorldNet Member Services

Address http://newsblaster.cs.columbia.edu/ Go

Columbia Newsblaster

Summarizing all the news on the Web

Monday, June 30, 2003
Last update: 7:28 AM EST

U.S.
World
Finance
Sci/Tech
Entertainment
Sports


[View Today's Images](#)

[View Archives](#)

[About Newsblaster](#)

[Newsblaster in Press](#)

[Academic Papers](#)



Palestinian militants declare truce; Israel starts pulling troops out of Gaza (33 articles)

JERUSALEM Infighting in Yasser Arafat's Fatah faction delayed an expected joint truce announcement Sunday by Palestinian militias, officials said, as President George Bush's top foreign policy adviser held talks to promote the U.S.-backed "road map" for peace. Earlier today, The Associated Press reported that the three militant factions had signed an agreement to halt attacks on Israelis, as called for in the beleaguered U.S. "road map" to peace in the Middle East. Seeking to advance a US-backed peace plan, U.S. National Security Adviser Condoleezza Rice held talks with the Palestinian prime minister yesterday, a day ahead of an expected truce announcement by Palestinian militants. The Bush administration welcomed, with reservations, cease-fires declared Sunday by Palestinian militant groups in their long fight against Israel. JERUSALEM Israel agreed Friday to cede security control of much of the Gaza Strip to the Palestinians, and a key leader of the radical Islamic group Hamas said there soon would be a three-month halt to attacks on Israeli targets. As Palestinian officials said they were finishing the details of a three-month suspension of all violence against Israelis, Palestinian militant groups increased their attacks on Thursday, and Israeli forces killed three militants here today.

Top News

Once Hailed, Soldiers in Iraq Now Feel Blame at Each Step (28 articles)

The U.S. military has launched a new operation in Iraq in an attempt to crush surviving Saddam Hussein loyalists and "paramilitary elements" believed to be behind a series of lethal attacks, officials said Sunday. American forces carried out an

Now that court says sodomy's OK, all limits are off (13 articles)

For 15 years, the majority has held sway as the court elevated states' rights, narrowed federal review of state criminal cases and issued the ruling that put George W. Bush in the White House. In a landmark 6-to-3 decision

Current Sources:
[nytimes.com](#) (123 articles)
[suntimes.com](#) (83 articles)
[dallasnews.com](#) (65 articles)
[boston.com](#)

Internet

Google News [02]

Google News - Microsoft Internet Explorer provided by AT&T WorldNet Service

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Copy Paste

Links Customize Links Free Hotmail Windows Media Windows Like Music - Try AOL! WorldNet Customer Care WorldNet Home Page WorldNet Member Services

Address http://news.google.com/ Go

Google News BETA

Web Images Groups Directory News

Search News Search the Web

Google named best News service by Webby Awards

>Top Stories

World
U.S.
Business
Sci/Tech
Sports
Entertainment
Health

Make Google News Your Homepage

Text Version

About Google News

Top Stories Auto-generated 7 minutes ago

Palestinians Resume Control of Bethlehem
Washington Post - 40 minutes ago
BETHLEHEM, West Bank, July 2 -- Israeli troops pulled out of this biblical West Bank town today and turned over control to Palestinian security forces, who raised flags and patrolled the city's historic Manger Square. The hand-over was the latest step ...
[US Praises Bethlehem Handover by Israel](#) Reuters
[Israel releases eight Palestinian prisoners](#) SABC News
[Forward - Guardian - Christian Science Monitor - International Herald Tribune - and 2037 related »](#)

Pentagon readies plans for peace mission in Liberia
Minneapolis Star Tribune - 1 hour ago
WASHINGTON, DC -- The Pentagon has ordered military planners to prepare detailed options for US troops to join an international peacekeeping force in Liberia, two senior military officials said Wednesday.
[Bush May Send Troops To Liberia](#) WCCO
[US to send troops to Liberia](#) Guardian
[CNN - Men's News Daily - CBC News - ABC News - and 758 related »](#)

WorldCom Offers New Stock With Settlement
Washington Post - [and 83 related »](#)

3 Top Shuttle Managers Replaced
Washington Post - [and 306 related »](#)

Attorney says unconfirmed statements about missing Baylor player feeding media frenzy
News 24 Houston - [and 1502 related »](#)

Schwarzenegger takes "T3" act to troops in Gulf
Boston.com - [and 247 related »](#)

Food giant maps steps to fight rising obesity
International Herald Tribune - [and 108 related »](#)

In the News

New Jersey	San Diego
Homeland Security	Defence Secretary
Los Angeles	Civil War
North Carolina	Coca Cola
US Supreme Court	West Bank

World »

Kenyan Women Accuse British Troops of Rape
New York Times - 3 hours ago
LONDON, July 2 -- A group of 650 Kenyan women who say they

U.S. »

Low-Profile Suburb Braces for Onslaught
Washington Post - 40 minutes ago
CHESAPEAKE, Va., July 2 -- At first a Fairfax County judge's

Done Internet

Tập dữ liệu

- DUC corpus
 - <http://duc.nist.gov>
- MEAD/NIE corpus
 - send mail to radev@umich.edu
- SUMMAC corpus
 - send mail to mani@mitre.org
- <Text+Abstract+Extract> corpus
 - send mail to marcu@isi.edu
- Open directory project
 - <http://dmoz.org>