



Looking for Prior Art
(Non-Patent-Literature)
In the Internet Haystack

Today's Moderators

1. Steve Pederson – *CEO & Chairman*
2. Will Bushee – *V.P. of Development*
3. Troy Mentzer – *Chief Navigator...trolling the deepest and darkest the Internet has to offer...finding relevant content for the great unwashed.*

stevep@harvestIP.com / +1 (612) 840-6888

willb@harvestIP.com / +1 (605) 212-6396

troy@harvestIP.com / +1 (605) 261-0450

Agenda

1. About HarvestIP
2. What is the problem?
3. What is the Deep Web?
4. What Validity Search & Google Misses
5. Ten Things Missing from Search
6. How HarvestIP Harvests the Deep Web
7. Deep Web Report Examples
8. Q&A



*Harvesting **Deep Data** from the Public Web,
whether it is “known”, “unknown” or “hidden”.*

*Providing normalized, **Relevant Content** for
analysis in the Legal Community.*



The Company

*HarvestIP, LLC is the legal industry's leader in harvesting high quality content from and the conventional Surface Web (Google) and the more authoritative, but largely inaccessible **Deep Web** sources (“unknown and hidden” data.)*

HarvestIP was formed to serve the legal community building on the Deep Web Federated Harvesting technologies developed over the past 10 years by BrightPlanet Corporation.

Focusing on the Legal Community

The IP research market is growing rapidly.

Finding unstructured, Non-Patent-Literature (NPL) on the web is fast becoming THE key essential “missing link” for IP researchers.

HarvestIP is in a position to quickly become the leading “real-time” research resource for litigators, analysts, and researchers from the Public Web.



A Proven History

With over 10 years of Deep Web extraction expertise, and four years of direct experience working with U.S. Intelligence Agencies, HarvestIP's parent technology company, BrightPlanet Corporation, has achieved a strong reputation and is acknowledged as the resource for Deep Web Harvesting in the Intelligence Community (IC) on behalf of the U.S. Government's War on Terror.

HarvestIP has been charged with providing these same Deep Data Harvesting resources to the Legal Community - successfully integrating with “best of breed” analytic and visualization tools to provide highly relevant content for the legal community from the Deep Web .



Three Problems

1. *Data & Documents, both (structured and unstructured) on the Open Source Public Web and on private/proprietary Databases are growing exponentially...at the “scale of the Internet”.*
2. *Current search technologies (like Google) simply do not have the scope or capacity to find all “**unknown and hidden**” Deep Data on the web.*
3. *Current search technologies return popular links – they do not provide content, nor can they federate and normalize it into a form that is **qualified, relevant, and useable** to the projects at hand.*

The Solution

*To find data that is
“known”, “unknown”, “protected” or “hidden”,
we must first rely on a technology that does not simply crawl
data, but can Harvest, Federate, Normalize and Qualify data.*

*HarvestIP harvests and delivers fully qualified, relevant Deep Data
to analysts and analytic tools from the
Open Source Public Web, Proprietary and Private sources.*



Surface Web vs. Deep Web
Surface Data vs. Deep Data
Search-Crawl-Mine vs. Harvest

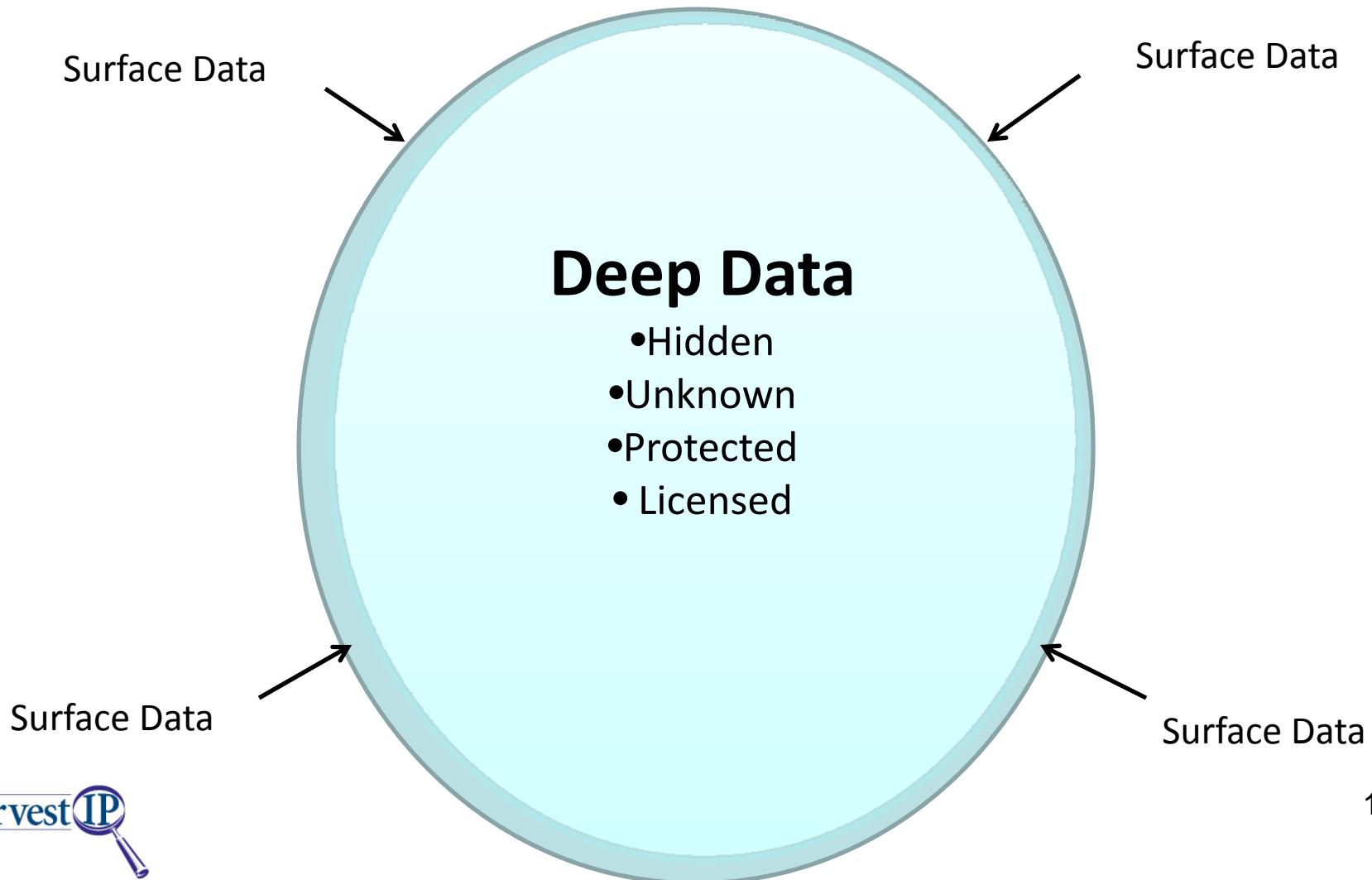
Exploring a Deep Web that Google Can't Grasp

New York Times, February 2009

(<http://www.nytimes.com/2009/02/23/technology/internet/23search.html>)

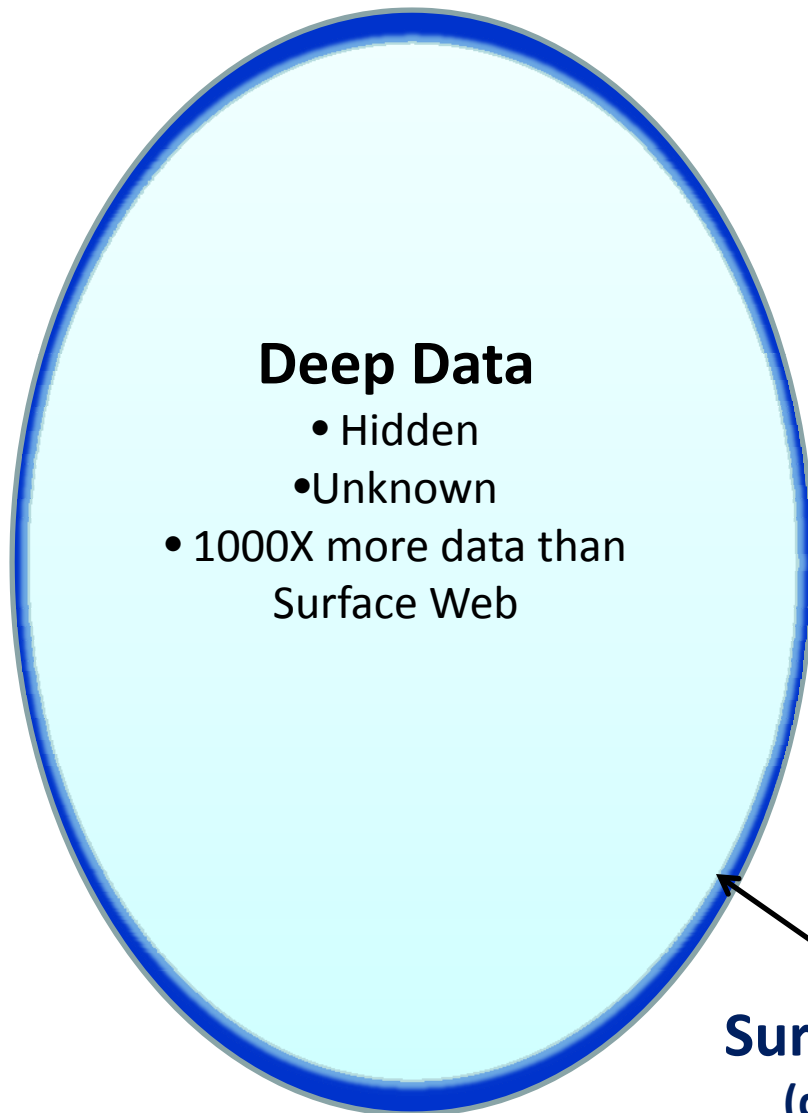
Surface Data: *Accessed by link traversal via Google, Yahoo!, etc.*

Deep Data: *Automatically accessed by HarvestIP Technologies*

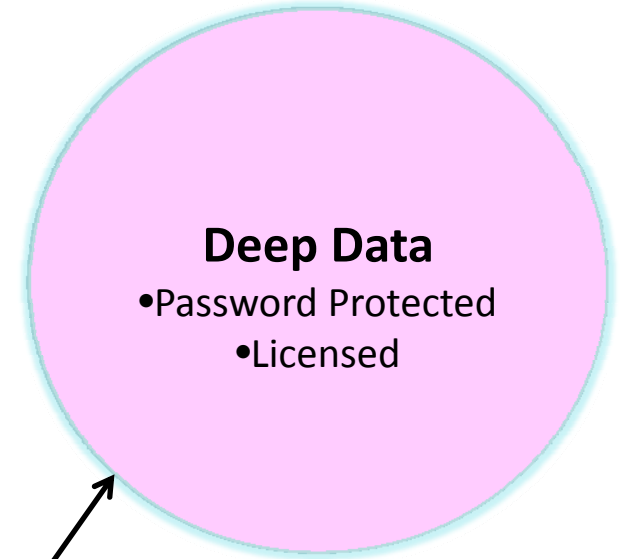


3 Sources of *Surface* Data & *Deep* Data

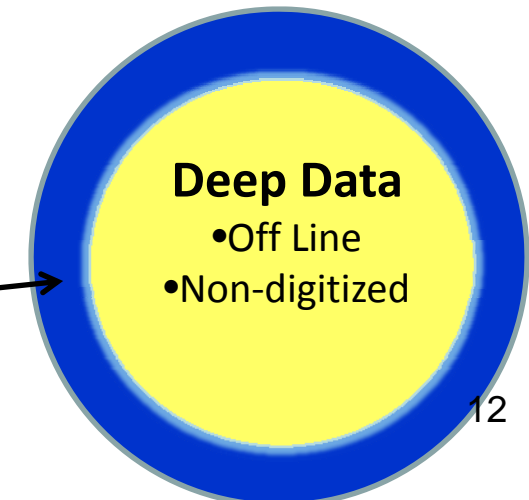
1. Public Open Source Sites



2. Proprietary Sites



3. Private Data



Surface Data
(dark blue)

Not Google...

Beyond “Surface Search”, Crawl, & Mining

Google, Yahoo, Bing, Cuil *et al*: (Surface Search)

Single user searches ONLY through one search engine or index

Only one query can be issued at a time

Content may be out-of-date

Content may not exist within the index

Often too much information is returned

Often the valuable information is “hidden”

What is Validity Search Missing?

Validity Search utilizes static databases that cover patents only (such as the USPTO, Questel and Delphion). They offer a subscription to “known” data sources and have little or no access to Non-Patent Literature (unstructured Deep Data) assigned to the Web.

Deep Data on the web represents an increasingly growing repository of documents and data now generally regarded as essential to the legal diligence process in today’s world.

The HarvestIP Solution

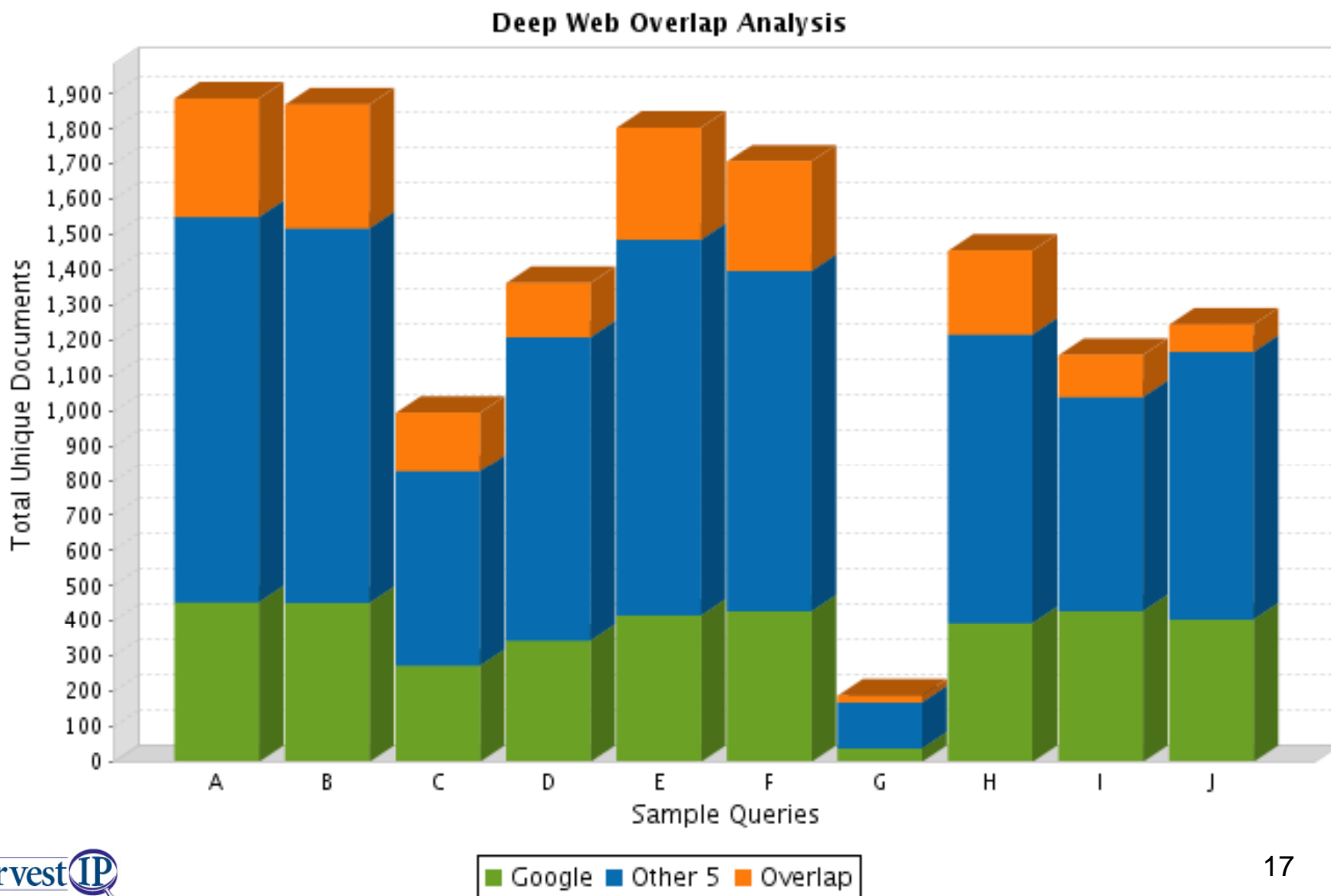
(...at the scale of the Internet)

1. HarvestIP **Harvests Documents** from the Deep Web and provides content not found through Surface Search technology.
2. HarvestIP uses a patented, custom configurable deep query technology that allows the harvesting of **“Relevant Content”** - documents search engines like Google cannot find.
3. HarvestIP directs the custom query manager to **Automatically Harvest “beyond the search box”**, employing patented scripting technologies that find “unknown and hidden” Deep Data.
4. HarvestIP **Federates and Normalizes Content** so that it becomes relevant and purposeful to the analytic projects at hand.

Top Ten Things...

1. *Engines have 30B to 1T indexed...just the surface*
2. *Does “The Biggest” mean “The Best”?*
3. *Popular yes, but did I find what I was looking for?*
4. *The results depend on how you ask the questions*
5. *Different Sites...Different Results...Different Rules*
6. *Now we see it... Now we don't*
7. *The trouble finding a good date*
8. *No such thing as a “Simple Search”*
9. *Results 1-10 of about 15,000,000*
10. *How do you know what you're missing?*

What Surface Search is Missing



Surface Search (*Google*)
vs.
Deep Web Harvest (*HarvestIP*)

An example...

Google (Surface Web) vs. Deep Web

Case Study: Searching for “Quantum Computing”

- *A Search of Google with the query “quantum computing” returns “about 648,000” but the actual documents available are 675.*
- *A Deep Web Harvest of the Dr. Dobb’s site with the identical query returns 42 documents, with all 42 available.*
- *A direct comparison of the two result sets showed no overlap from Google’s result set to Dr. Dobb’s result set.*
- **Conclusion:** *A researcher would not have found any of the documents contained within the Dr. Dobb’s database by doing only a Google search. (“What other content was not available in the Google results for this query?”)*

Google (Surface Web) vs. Deep Web

Dr. Dobb's

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Search

Search Results

Found 42 items for "quantum computing"

Results sorted by: ☒ Date ☐ Relevance **RE-SORT**

Results 1 - 10

[Quantum Computing](#)
Researchers set a new record for controlling an individual electron
November 24, 2008

[Probe Could Aid Quantum Spectroscopy](#), with a new technique
September 04, 2008

[A Conversation With Erik Demaine](#) is this research interests range from searches, to the computer
September 02, 2008

[A Conversation With Christos Papadimitriou](#) Excellence. In this excerpt from the economics of a novelist."

Dr. Dobb's

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Search

Search Results

Found 42 items for "quantum computing"

Results sorted by: ☒ Date ☐ Relevance **RE-SORT**

Results 41 - 42

[Programming Paradigms](#)
Michael catches up on breaking news about the 400-year old Ylbvi-Nlliv algorithm, then turns his eye to Steve Jobs efforts to pull Apple back to the top.
April 01, 1998

[Books and Covers](#)
What's the state of computer science today? Michael finds out, as he examines a book of the same name.
October 01, 1996

1 2 3 4 5

Google (Surface Web) vs. Deep Web

The image shows a Google search interface with the query "quantum computing". The search results are displayed in two columns. The left column shows results from the Surface Web, including Wikipedia, qubit.org, HowStuffWorks, and a video. The right column shows results from the Deep Web, including PDF documents, NIST workshop materials, and news articles. The search results are ranked by relevance, with the top results appearing first.

Google [Advanced Search](#) [Preferences](#)

Web [Show options...](#) Results 671 - 675 of about 648,000 for "quantum computing"

Quantum computing
Although quantum computing is a field in its infancy, which promises ...
en.wikipedia.org/wiki/Quantum_computing

qubit.org
Research centre based at the University of Oxford, research into all aspects of quantum computing.
www.qubit.org/ - [Cached](#)

HowStuffWorks "How Quantum Computing Works"
You don't have to go back to the beginning of time to have been around for the quantum revolution.
computer.howstuffworks.com/quantum-computing.htm

Video results for "quantum computing"
 Quantum Computing
Introduction
56 min
www.youtube.com/watch?v=...

Quantum Computing
Combining physics, mathematics and engineering in the past two decades has led to the development of quantum computing.
plato.stanford.edu/entries/quantum-computing/

PDF Semiconductor Devices for Quantum Computing
File Format: PDF/Adobe Acrobat - [View as HTML](#)
Grand Challenge **Quantum Computing** Poses to Physicists and Engineers: ... Note: State of the art for solid state quantum computing. 2 qubits ...
www.aps.org/units/fiap/meetings/presentations/upload/kane.pdf - [Similar](#) -

NIST Workshop on Trapped Ion Quantum Computing
Links on this page go to original presentations given at the Workshop on Trapped Ion Quantum Computing held at NIST Boulder 21-24 February 2006. ...
tf.nist.gov/ion/workshop2006/workshoppapers.htm - [Cached](#) - [Similar](#) -

NIST Image Gallery: Browse: Results
Quantum Physics; Quantum Computing; Planar Ion Trap; Magnesium Ions, created 7/6/2006, ... Ion Traps and Quantum Computing, created 2003, entered 3/5/2007 ...
patapsco.nist.gov/ImageGallery/browseaction.cfm?topicid=... - [Cached](#) - [Similar](#) -

Local scientists' quantum leap | Australian IT
Jun 23, 2009 ... Quantum computing is a field in its infancy, which promises ... Andrea Morello, program director at the University of NSW quantum computing ...
www.australianit.news.com.au/.../0,25197,25673236-15306,00.html - 13 hours ago - [Similar](#) -

NEC-DUTCH TEAM PROTOTYPES QUANTUM COMPUTING DEVICE. | Article from ...
NEC-DUTCH TEAM PROTOTYPES QUANTUM COMPUTING DEVICE. ... find AsiaPulse

Google “Search” vs. Deep Web Report

Example: Swartz GUI Patent Group - Prior Art Search

- Google Search
 - Search only one source with one query
 - Searching for “icon software management” returns “about 24,500,000 hits”
 - Only 62w can be viewed
- HarvestIP Deep Web Report
 - Harvest from many sources
 - Searching for “icon AND software AND management” to 65+ Deep Web sources returns 1,354 qualified results
 - All are viewable and subset searchable
 - Further filtering to 127 highly qualified results

Google “Search” vs. Deep Web Report

The image shows a screenshot of a Google search results page. The search query is "icon software management". The page displays several search results, including "Icon Management Systems, LLC" and "Icon Supply Chain". The page also shows a sidebar with "Web" and "Show options..." links. The search results are numbered 621 to 622 of about 24,500,000 results. The page includes a "Previous" and "Next" navigation bar at the bottom, and a "Add a result" link.

Google™ icon software management Search Advanced Search Preferences

Web Show options... Results 621 - 622 of about 24,500,000 for [icon software management](#)

[Desktop at Software Informer.](#) ☆ ↑ ×
... a must-have photo manager - the **management** of your photos online is, ... The Weather Channel Desktop will rest then as an **icon** in your system tray, ...
[desktop.software.informer.com/](#) - [Cached](#) - [Similar](#) - [Comments](#)

[Icon Management Systems, LLC](#) ☆ ↑ ×
Icon Management Systems, LLC specializes in assisting Defense Department buyers and shipyard purchasing agents locate the specific products they wish to ...
[www.strongsville-ohio.net/iconmanagement/](#) - [Cached](#) - [Similar](#) - [Comments](#)

Searches related to: **icon software management**

[windows xp icons](#) [download icons](#) [windows vista icons](#) [folder icon software](#)
[toolbar icons](#) [vista icon software](#) [icon editing software](#) [icon maker software](#)

◀ GoooooooooooooooooogLe ▶
[Previous](#) 53 54 55 56 57 58 59 60 61 62 63 64 65 [Next](#)

⊕ [Add a result](#) - [See all my SearchWiki notes](#) - [See all notes for this SearchWiki](#) - [Learn more](#)

Google “Search” vs. Deep Web Report

Harvest ID: icon AND software AND management-O20090609_150648

Query: icon AND software AND management (All of these words) [Standard]

Sources: 66 and Common Sources

Filters: 32 Incl Filter Terms

Run/Modified: Jun 10, 2009 10:16:46 PM CDT

Stats: 1354 docs [197 accepted; 0 projects; 1 document sets]

Notes: (1998 OR 1999)

1-15 16-30 31-45 46-60 61-75

Go to Result:

☐ Select All (0 Selected)

1. [International Conference on Practical Software Project Management](#)

Summary: Practical Software Project Management

Management: SPM-ICON 2004

Conference on Practical Software Project Management

Allconferences.com > Computer Science > Software Engineering

International Conference on Practical Software Project Management

Ends May... shashi@qsitglobal.com

Category 3 Computers: Object-Oriented Programming

<http://www.allconferences.com>

Relevance: ■■■■ Size: 19k Harvested: Jun 10, 2009 10:16:46 PM CDT

[Top of Page](#)

2. [ICON plc Selects Trajectory Systems, Inc.](#)

Summary: ICON plc Selects Trajectory Systems, Inc.

Corrective Preventive Action Management Software Home Site

Report Name: Icon Software Management

Query: icon AND software AND management (All of these words) [Standard]

Filters: 32 Incl Filter Terms; 8 Excl Filter Terms; With Domain Filters

Created/Modified: Jun 24, 2009 11:25:41 AM CDT

Stats: 127 accepted; 0 projects; 1 document sets

Notes:

1-15 16-30 31-45 46-60 61-75 >> >>> >>>>

Go to Result:

1. [PSM Insight: The Army-DoD Tool to Implement IssueDriven Software Measurement Don Scott Lucero U.S.](#)

Summary: Implement Issuedriven Software Measurement Don Scott Lucero U.s. Army Software Metrics Office The Army Software Metrics... the software process. Software measures are tailored to reflect the existing project management and software development... the PSM Guide, Practical Software Measurement: A Foundation for Objective Project Management. The guide explains... support an integrated DOD software measurement strategy. PSM Insight provides a Pc-based management capability to implement... software measures to unique project issues and allows using data already available from an existing software ... for a software measurement project and can manage data according to the attributes and software components,...

<http://www.stsc.hill.af.mil/crosstalk/1999/06/lucero.pdf>

Relevance: ■■■■ Type: PDF Size: 127k Harvested: Jun 10, 2009 10:16:46 PM CDT [Original Text](#)

[Top of Page](#)


2. [Quick Tips to Using I-DEAS I-DEAS™ Tutorials: Fundamental Skills Learn about:](#)

Summary: the top of the icon panel when the software is running. For example, click on the... Polyline icon with the left mouse button. Things to notice Notice that the Polyline icon is... selecting the Lines icon from the stack. When you do, the Lines icon comes to the... Terminate the Lines icon by pressing the middle mouse button. to deactivate icon Things to notice... Part. Pull down the icon stack and select the Name Parts icon. Then select the Name Parts icon to activate it in your model file. Pull down the icon stack...

Examples of a HarvestIP Prior Art Search

*Deep Web Harvest Reports
&
HarvestIP Searchable Portals*

Sunlight Research Portfolio Claim Map

Interactive Map for F&G Research's Mouse Patents																						
 SUNLIGHT RESEARCH™ The Source for Patent Analysis				Mouse and method for concurrent cursor position and scrolling control				Computer keyboard with dial for entering repetitive data and commands		Mouse and method for concurrent cursor position and scrolling control				Mouse driver arrangement for providing advanced scrolling capabilities to a conventional mouse		Commands functions invoked from movement of a control input device						
Title																						
File#																						
Patent#				5,313,229				5,438,331		5,374,942				5,633,657		5,745,719						
Assignee Name																						
Filing Date				Feb 05, 1993				Jun 11, 1993		Aug 12, 1993				Oct 11, 1994		Jan 19, 1995						
Total Claims				17				9		18				19		23						
Claim# (Independent)				1	9	12	17	1	9	1	6	11	16	1	11	1	8	16				
Claim Status (1=don't need, 2=want, 3=need)																						
				Possibly Need				Possibly Need		Possibly Need				Possibly Need		Possibly Need						
Scope Concept (Appearance, Asc.)				Ranking (1-3)	Total			6	6	8	8	3	3	7	10	10	11	8	8	4	4	3
controlling a scrolling movement of information on a display				3	10	67%																
controlling movement of a cursor or position indicator on a display				3	13	87%																
generating x-y position signals or incremental movement information				3	10	67%																
providing a displaceable or moveable body and spring for generating control signals				3	3	20%																
providing a supplementary control signal for scrolling information on a display				3	8	53%																
varying control signals based on a displacement amount and direction from equilibrium				3	3	20%																
analyzing a trail or movement of a cursor at periodic time intervals				3	7	47%																
detecting a dominant cursor direction				3	5	33%																
generating commands for scrolling information on a display in a scrolling direction along a scrolling axis				3	5	33%																
setting a scrolling axis				3	4	27%																
generating an output signal according to an angular rotation speed of a dial				3	2	13%																
modifying a sequence of repeated commands by activation of a key when a dial is rotated				3	2	13%																
producing a sequence of repeated commands with a rotatable dial				3	2	13%																
▶ ◀ Home Map Instructions Interactive Claim Map Claim Text																						

Validity Search for Portfolio Claim Map

(Initial Harvest Results)

Search the Current View: [\[Metadata Search Help\]](#)

All of these words

Harvest ID: Graphical Icon Capture-O20090623_085448
Query: capture AND graphical AND file AND content AND application (All of these words)
[Standard]
Sources: 66 and Common Sources
Filters: 32 Incl Filter Terms; 6 Excl Filter Terms; With Domain Filters
Run/Modified: Jun 23, 2009 11:28:51 AM CDT
Stats: 779 docs [1299 accepted; 10776 rejected; 12075 evaluated]
Notes:


1-15 [16-30](#) [31-45](#) [46-60](#) [61-75](#) >> >>> >>>|

Go to Result:

☐ **Select All** (0 Selected)

☐ 1. [Policy.Net Enterprise](#)
Summary: management, intelligent inspection of **content** for filtering and blocking, site blocking, remote traffic recording, live traffic... Optimizes Network and Improves **Application** Performance Reduces network delays and congestion **Application** based rate controls Network... unlicensed applications **Application** based access controls to network resources Protection of Intellectual Property Information **Content** inspection... information in emails, instant messaging and **file** transfers Obliterates confidential information in... information as attachments or **file** transfers Improves Employee Productivity Restricts non-work related Internet activities Improves network... contextsensitive **content** scanning Disarms suspect e-mail attachments and filters **content** Filters web sites and HTTP **content** ...
http://www.netveda.com/downloads/policynet_enterprise.pdf
Relevance: ■■■ **Type:** PDF **Size:** 792k **Harvested:** Jun 23, 2009 11:19:21 AM CDT [Original Text](#)
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Deep Web Harvest Report



SUNLIGHT RESEARCH™
The Source for Patent Analysis

Data Analytics | Patent Claims Coverage Reports | Intellectual Property Market Research

Deep Web Harvest Report

F&G Research - Computer Mouse Patents
Q1 2009

This report prepared by

harvest IP

*"The Legal Community's Leader in Harvesting
Relevant Documents, "Known" "Unknown" and "Hidden",
from the Open Source Public Web."*

www.HarvestIP.com

Sunlight Research, LLC
phone (612) 977-1713 fax (866) 473-3953
900 2nd Ave South - Suite 490 Minneapolis, MN 55402 USA
www.SunlightResearch.com CustomerService@SunlightResearch.com

Deep Web Harvest Report

Deep Web Harvest Report
F&G Research - Computer Mouse Patents



Quarter 1 - March 2009

Document Summaries

F&G Research - Computer Mouse Patents Document Summaries

Set forth below for each document obtained in the Deep Web Harvest are Document Summaries, which include the document Title, an automatically generated document description, last harvested date, source that the document is located, and a URL link. Each document has been hand-vetted for potential relevancy to this portfolio. All documents referenced in this Deep Web Harvest Report are included in the Harvested Documents folder as a PDF file.

HIP F&G0001

ISSUES FOR PROXIMATE USER INTERFACES Ken Pier Information Sciences and Technology Laboratory Xerox

Summary: display cursor. The user could then invoke an operation from that menu by releasing the mouse ... cursor in response to a particular mouse button press, or a mouse button press without cursor ... equally close to the cursor when the menu appears, and very little cursor motion is needed... the mouse, so that existing applications for the Windows environment may simply substitute pen for mouse. ... the location of the mouse cursor to provide input focus and to direct user actions such... cursor lies. When a user moves a mouse cursor and then lets go of a mouse ...

<http://www.cs.berkeley.edu/~landay/research/publications/proximate.pdf>

Harvested: Tue Jan 27 11:21:25 CST 2009

Source: UC Berkeley EECU

<http://www.cs.berkeley.edu/>

HIP F&G0002

A Taxonomy of See-Through Tools Eric A. Bier, Maureen C. Stone, Ken Fishkin, William Buxton†, Thoma

Summary: other hand controls a mouse cursor. The user clicks through a tool onto application objects, simultaneously... by positioning a cursor using a mouse in the right hand. Together, the cursor, toolglass sheet,... into place with the mouse cursor and then apply it. These tools have many other potential... s gaze and the mouse cursor to remain in the work area. They can be

HarvestIP Searchable Portal

Search:
All of these words ▼
Go
[Advanced Search](#)

☐ All Documents
☒ All Documents Within Scope Concept Topic

- [Analyzing a Trail or Movement of a Cursor](#)
- [Calculating a Cursor-Heading Time Variation](#)
- [Controlling a Scrolling Movement of Info](#)
- [Controlling Movement of a Cursor](#)
- [Detecting a Dominant Cursor Direction](#)
- [Determining Similarity of a Cursor Trail](#)
- [Executing a Predetermined Command](#)
- [Generating an Output Signal According to Dial](#)
- [Generating Commands for Scrolling Information](#)
- [Generating Scrolling Commands According](#)
- [Generating X-Y Position Signals](#)
- [Modifying a Sequence of Repeated Commands](#)
- [Producing a Sequence of Repeated Commands](#)
- [Producing a Time-Varying Output Signal](#)
- [Providing a Displaceable or Moveable Body](#)
- [Providing a Supplementary Control Signal](#)
- [Providing Synchronizing Signals with a Clock](#)
- [Providing Tactile Feedback About Position](#)
- [Setting a Scrolling Axis](#)
- [Setting or Interpreting a Scrolling Scale](#)
- [Storing a Cursor's X-Y Incremental Movement](#)
- [Varying Control Signals Based on Displacement](#)

Scope Concept Node Results: 8896

1-15
[16-30](#)
[31-45](#)
[46-60](#)
[61-75](#)
[>>](#)
[>>>](#)
[>>>|](#)

Go to Result:
Go

1. [Optimal Compensation for Changes in Task-Relevant Movement Variability -- Trommershäuser et al. 25 \(31\): 7169 -- Journal of Neuroscience](#)

Summary: in Task-relevant Movement Variability --Trommershäuser et al.: --Journal of Neuroscience 25 31 7169 Optimal Compensation for Changes in Task-relevant Movement Variability --Trommershäuser et al. 25 31: 7169 --Journal of Neuroscience [Www.jneurosci.org](#) - The Journal of Neuroscience Monoclonal Antibodies for Neuroscience Research QUICK SEARCH: advanced Author: Keyword s: Year: Vol: Page: - HOME SEARCH ARCHIVE SUBSCRIBE CONTACT HELP The Journal of Neuroscience, August 3, 2005, 25 31:7169-7178; doi:10.1523/jneurosci.1906-05.2005 This Article Right arrow Abstract Freely available Right arrow Full Text PDF Right arrow Supplemental data Right arrow Submit an eLetter Right arrow Alert me when this article is cited Right arrow Alert me when eLetters are posted Right arrow Alert me if a correction is posted Right arrow

Harvesting “Unknown and Hidden” Relevant, Current Content for:

- *Validity Search*
- *Patentability*
- *Portfolio Management*
- *Litigation Support*
- *Claims Coverage*
- *Portfolio Management*
- *Competitive Intelligence*
- *Licensing*
- *Freedom to Operate*
- *...and much more.*



Deep Web Harvest Reports can also be found at:



<http://sunlightresearch.com>

Q & A

Thanks!

Steve Pederson

stevep@harvestIP.com / +1 (612) 840-6888

Will Bushee

willb@harvestIP.com / +1 (605) 212-6396

Troy Mentzer

troy@harvestIP.com / +1 (605) 261-0450

Nora Best

norab@harvestIP.com / +1 (815) 549-6613

