



REUTERS/Dominic Ebenbichler

Thomson Data Analyzer (TDA)

智能信息分析专家

郭 杨 Deborah Guo

汤森路透知识产权与科技事业部

2015/11/26



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大纲

- 情报分析简介
- TDA是什么？
- TDA能做什么？
- TDA6.0新功能介绍
- 问题与解答



大纲

- 情报分析简介
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- TDA6.0还有什么？
- 问题与解答



什么是情报分析？

- ❖ 情报分析（Intelligence Analysis），就是对所获取的信息进行人工分析，得出有用的信息——情报的过程，情报分析是“情报过程”的一个重要组成部分。
- ❖ 情报分析是对有用的信息进行分解、合成，通过逻辑推理得出有价值的结论。
 - 美国《国防部军事与相关术语字典》认为：情报分析是通过对全源数据进行综合、评估、分析和解读，将处理过的信息转化为情报以满足已知或预期用户需求的过程。



需求定位——五个 “W” + 一个 “H”

- 回答技术的问题：
 - 核心技术点
 - 主要技术持有人
 - 技术发展趋势
 - ...
- 回答竞争情报的问题：
 - 他们在做什么
 - 他们做得怎么样
 - 怎样跟踪他们的最新进展
 - 他们将来会怎么做
 - ...



情报分析流程

客户/决策者

分析师

明确问题

准备数据

数据清理

数据分析

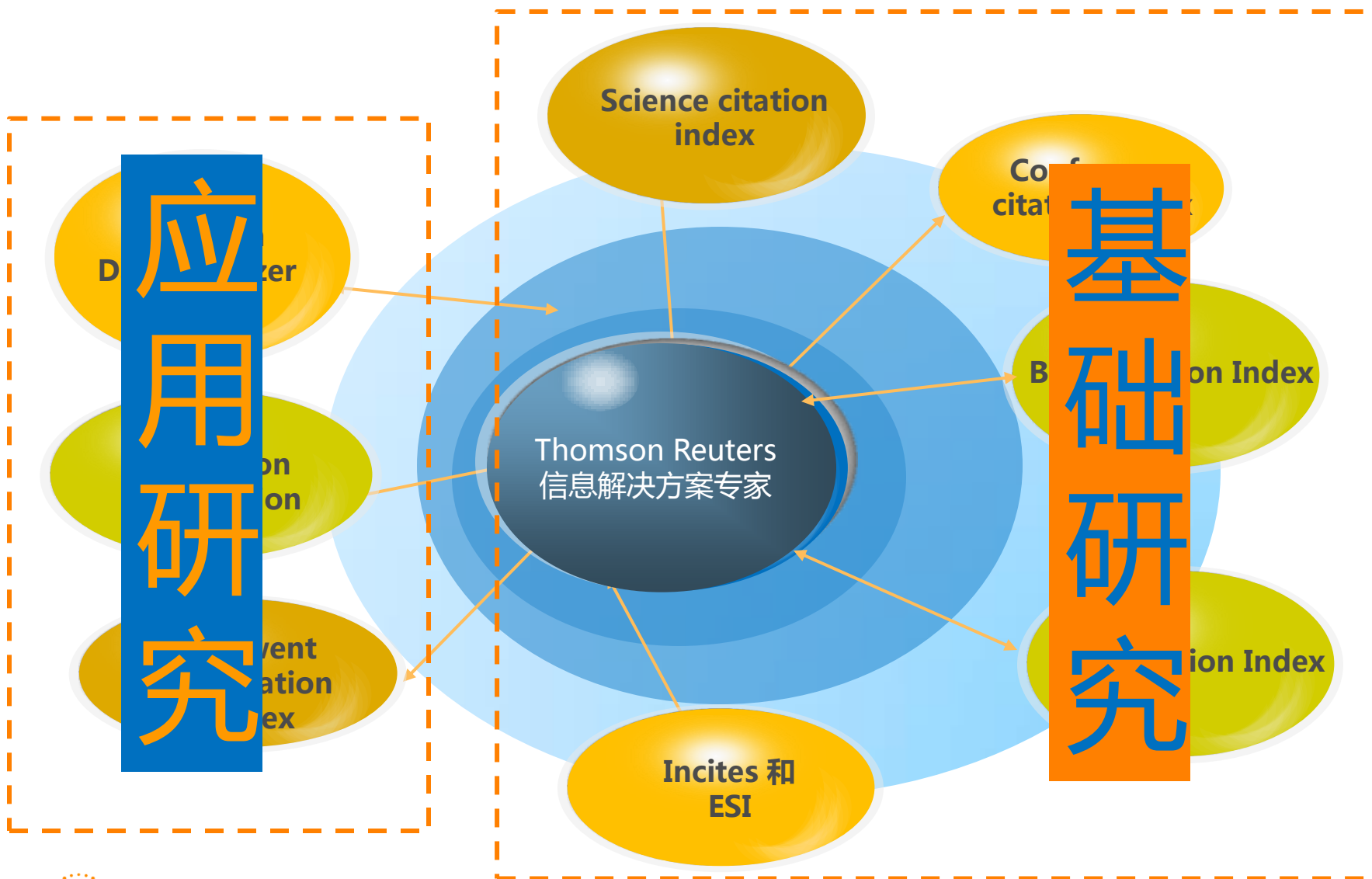
仔细研究分析结果

提出进一步的问题

最终得到清楚、准确、简明的
分析结果



汤森路透知识创新解决方案



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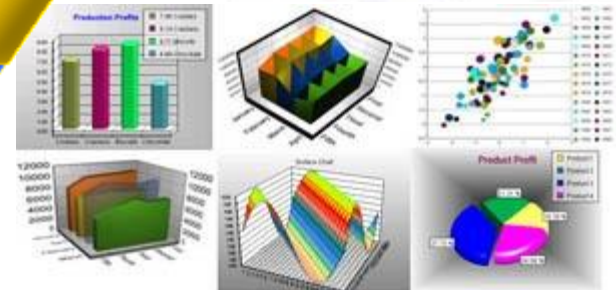
分析方法

Web of Science
Thomson Innovation

L3. Macro



L2. Semi-Macro



L1. Micro



Thomson Data Analyzer

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Thomson Data Analyzer

- TDA源于美国军方三大机构资助的海量数据分析工具研发项目，以帮助提高数据分析效率，降低沉重的数据分析人力成本：



美国国防预先研究计划局



美国陆军坦克自动化和武器司令部



美国陆军航空和导弹司令部



TDA简介



Thomson Data Analyzer[®]

通过提供**多角度**的数据挖掘和**可视化**的全景分析
帮助情报工作者分析**竞争情报与技术情报**的

智能信息分析工具

情报分析人员

- 发现潜在的市场和研发机会
- 洞察竞争合作关系，确定合作伙伴
- 把握科学技术演进动向和投资时机

科研工作人员

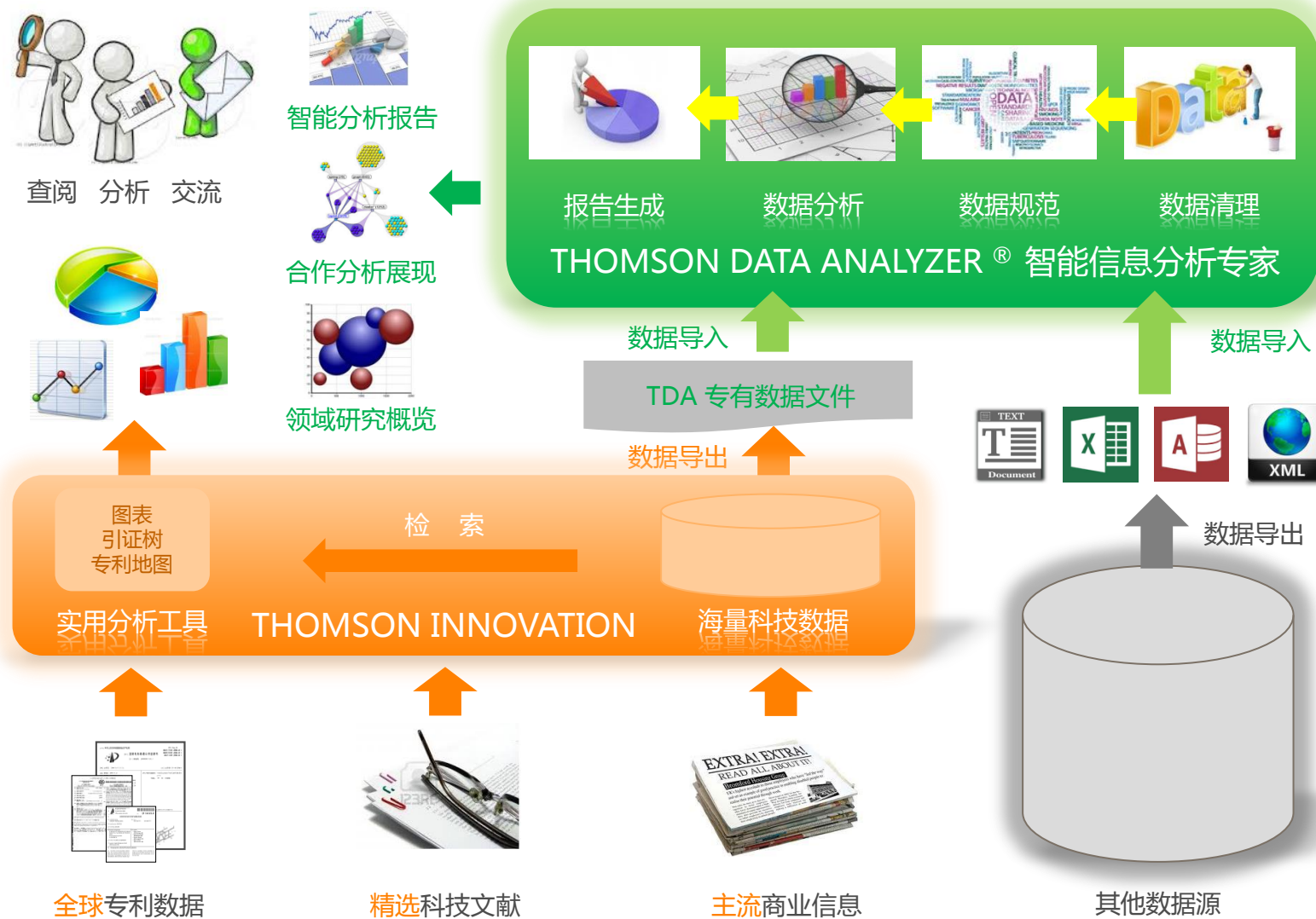
- 判别技术领军人才，打造研发团队
- 制定正确的研发和知识产权战略



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Thomson Data Analyzer



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**TDA可以
帮助您...**

**THOMSON DATA
ANALYZER**

1

科技文献情报分析

2

**专利文献竞争
情报分析**

3

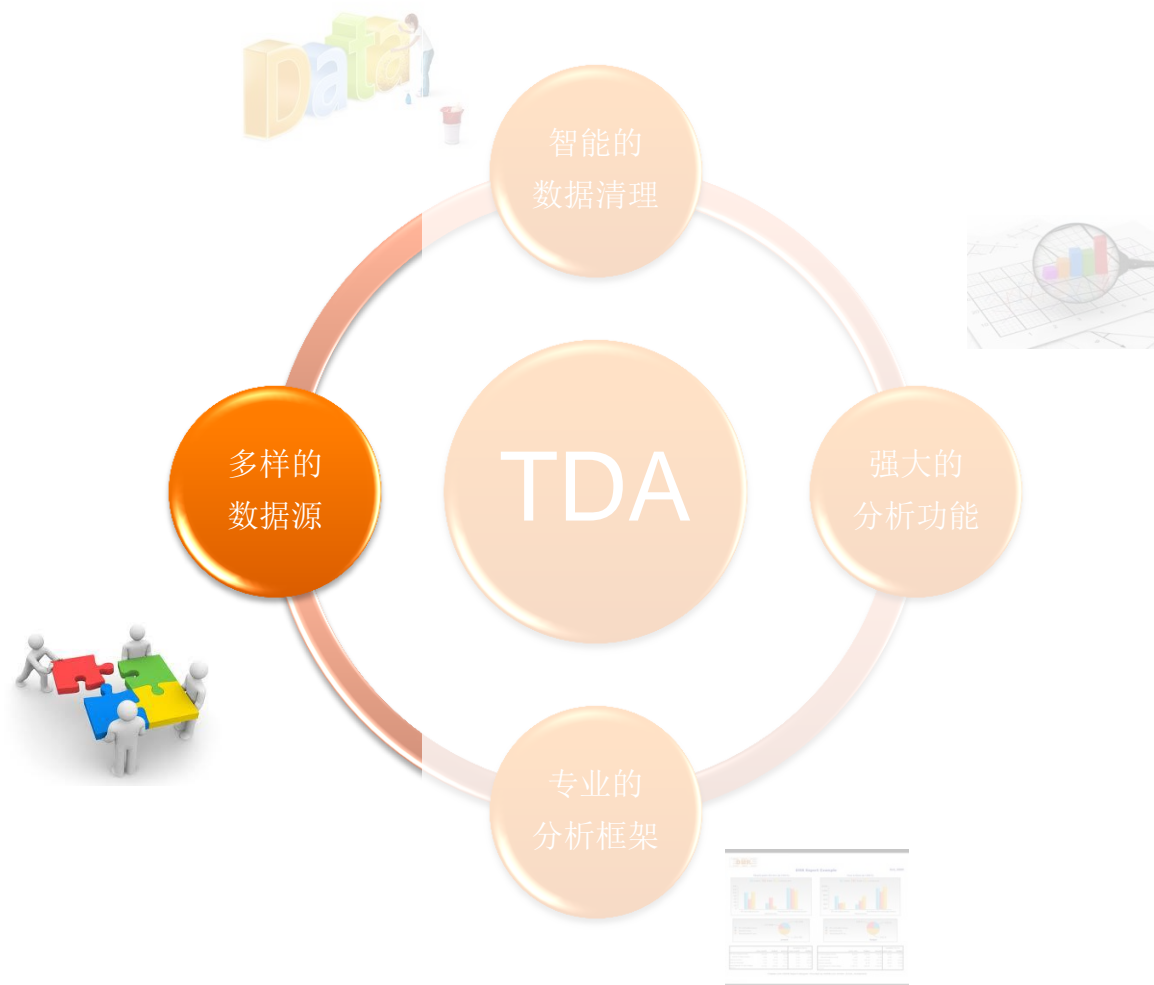
**图书馆深层次的
学科服务**

第二和第三的应用介绍请关注大讲
堂后续的**TDA**高级培训课程



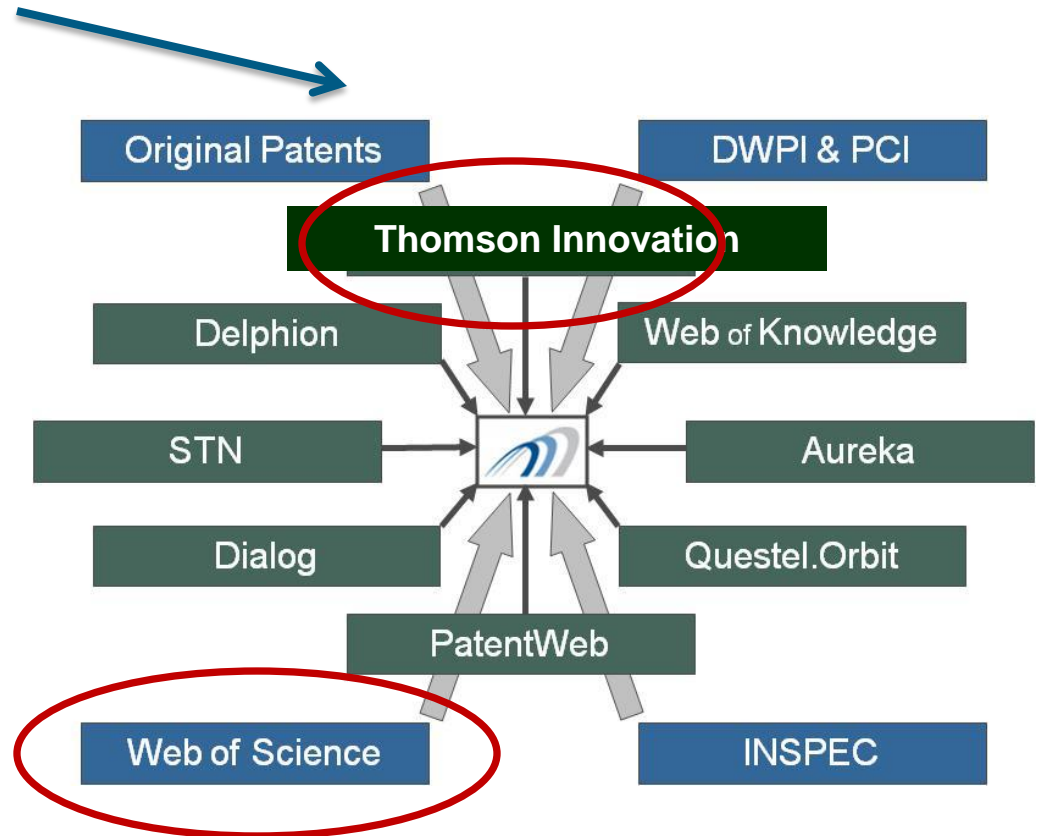
THOMSON REUTERS

TDA的优势



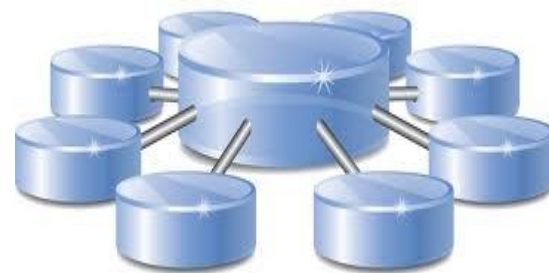
多来源数据导入

- 系统默认支持数据库
- Excel
- 自定义数据

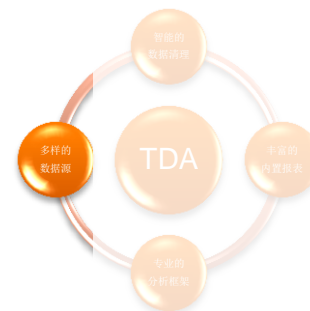


不同数据源的合并

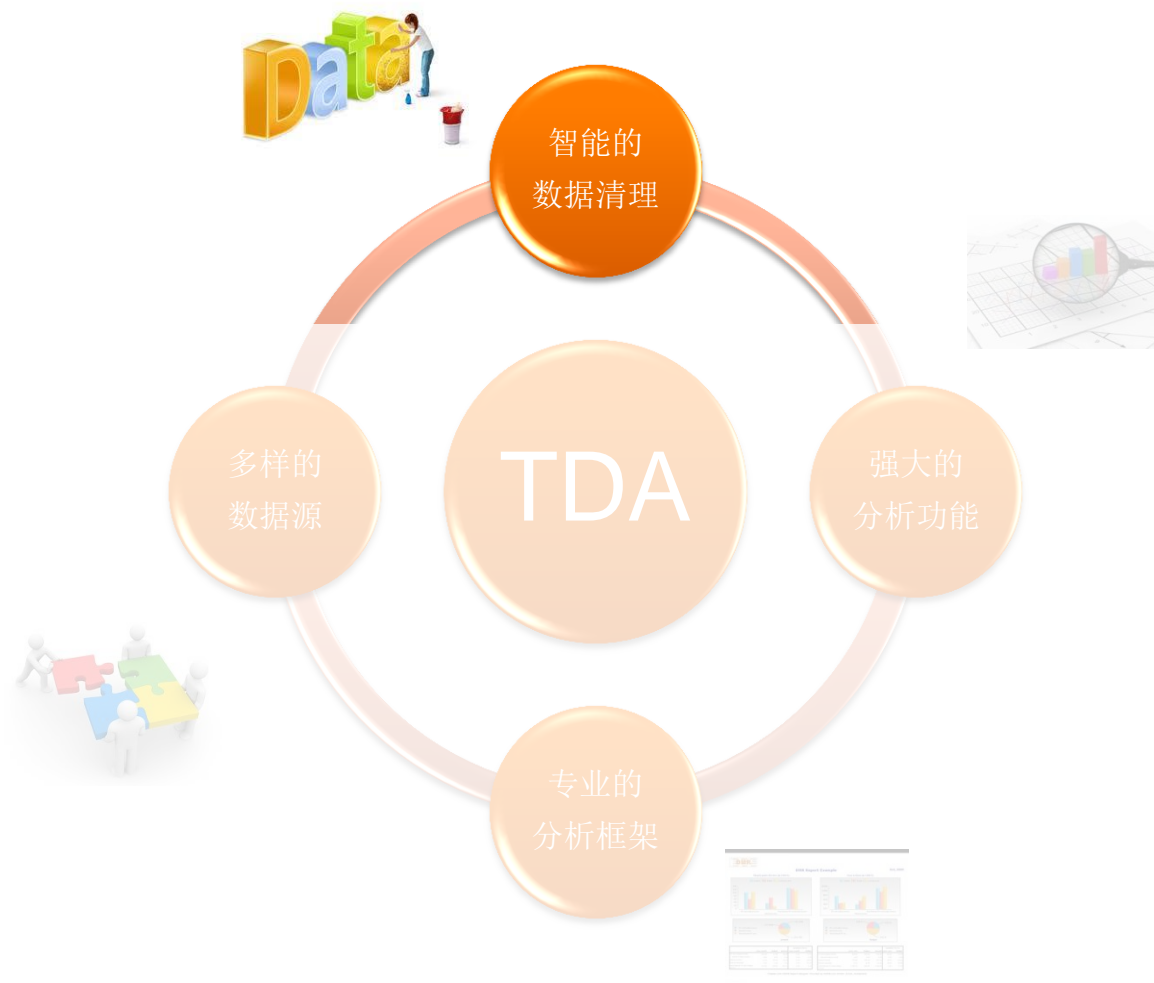
- 数据集合并：
 - 完全合并多个不同的数据集数据
- 记录集合并：
 - 根据指定字段的匹配规则合并不同记录数据



- 合并相同数据库不同时间段数据，用于数据追加
- 将来自不同数据库的数据合并，弥补单一数据库的不足
 - 例如：SCI与DWPI数据合并



TDA的优势



智能的数据清理



准确、完整、一致的数据



高质量，可信的分析结果

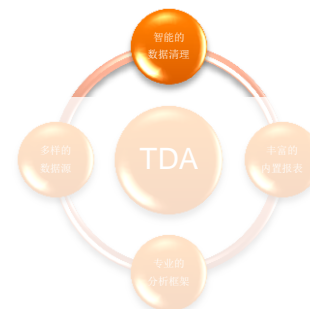


**Garbage
In... ←
Garbage
Out! →**

Everything that enters the
mind influences how we
think and act.

Don't let garbage enter
your mind.

- 原始专利/文献信息的常见数据问题：
 - 个人和机构名称的不同简写方式，拼写错误
 - 公司并购重组引起的数据修订需要
 - 近义词和同义词
 - 不同数据源存在分类和标引差异
 - 不同数据源带来的重复数据
 -



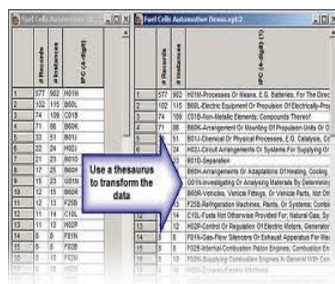
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智能的数据清理

- TDA内置了多种常用的数据清理工具：



模糊匹配 (Fuzzy Match)



叙词表 (Thesaurus)

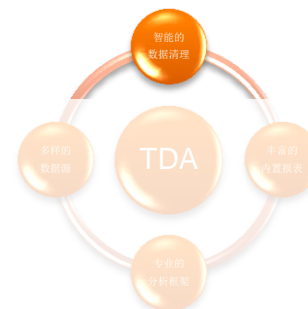


数据去重 (Duplicates)



数据分组 (Grouping)

- TDA数据清理工具能够帮助情报分析人员：
 - 缩短分析周期，提高分析准确度
 - 更多的专注于数据分析和情报解读



智能的数据清理 – 模糊匹配列表清理工具

高露洁

- TDA可自动对专利权人字段（公司名称）进行模糊匹配，自动归组，从而为后续的分析提供更加准确的数据集合。

- 公司名称拼写错误或简写
- 并购，相关控股公司，子公司

- 其他预置的模糊匹配：

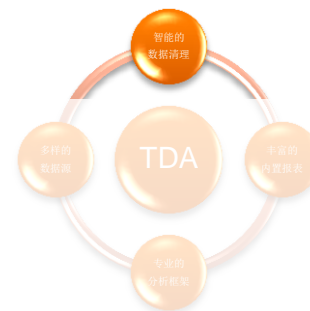
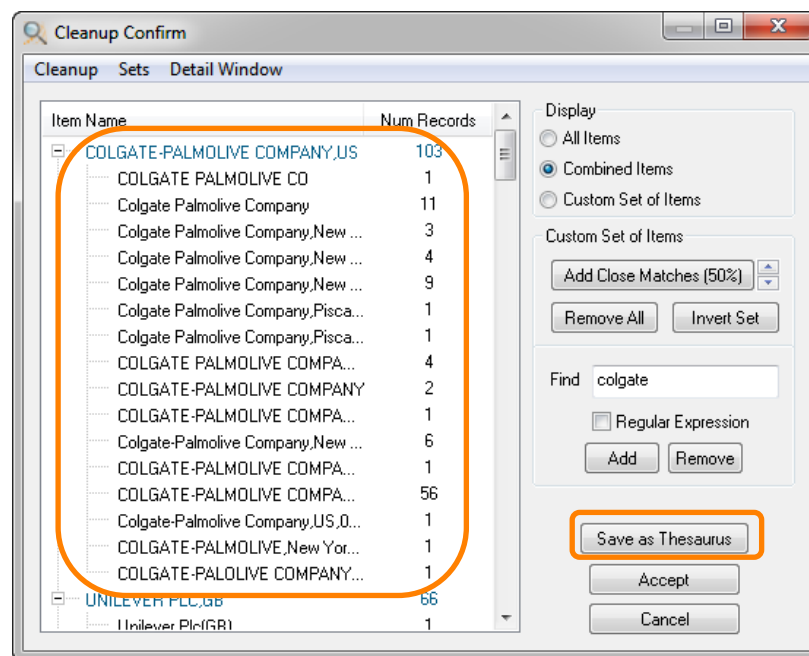
- 人名匹配 – 发明人/作者数据清理
- 美式英语和英式英语转换
- 通用模糊匹配

– 专利详细技术信息数据清理

– 其他自然语义处理

如：aeroplanes（美）VS. airplane（英）

- 人工干预，保证数据清理准确性
- 保存成叙词表，团队共享，后续使用
- 注意使用模糊匹配，例：在不要求严格匹配的情况下，叙词表条目“Land，R”也会匹配“Auckland，R”。



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智能的数据清理 – 叙词表

- TDA预置的叙词表可以帮助情报分析人员：

- 准确清理专利权人，发明人等数据
- 快速专利分类代码含义转换
- 国家代码名称转换
- 便于统一数字和日期格式
- 排除停用词以便于精确技术分析
- 还原缩略词/简写词
- 同义词近义词清理
- 用户自定义叙词表

	# Records	# Instances	Priority Countries (earliest)
1	384	384	JP
2	262	262	US
3	82	82	DE
4	75	75	EP
5	45	45	KR
6	25	25	FR
7	22	22	WO
8	20	20	GB
9	17	17	DK
10	12	12	IN
11	1	1	CH
12	1	1	CN

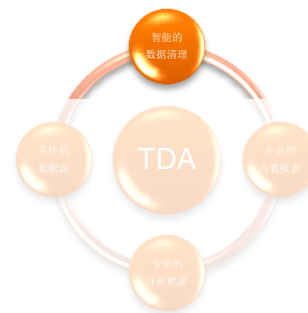


	# Records	# Instances	Priority Countries (earliest) (2)
1	384	384	Japan
2	262	262	United States of America
3	82	82	Germany
4	75	75	European Patent Office
5	45	45	Korea, Republic of
6	25	25	France
7	22	22	Patent Co-operation Treaty
8	20	20	United Kingdom
9	17	17	Denmark
10	12	12	India
11	1	1	China
12	1	1	Switzerland

- 积累数据清理经验，建立可重用叙词表并不断完善，可以提高团队整体分析效率
- 构建自己的词库 – 专利技术分析
- 构建行业企业名录 – 快速专利权人清洗



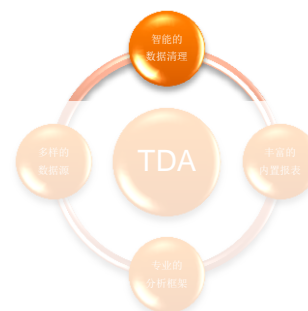
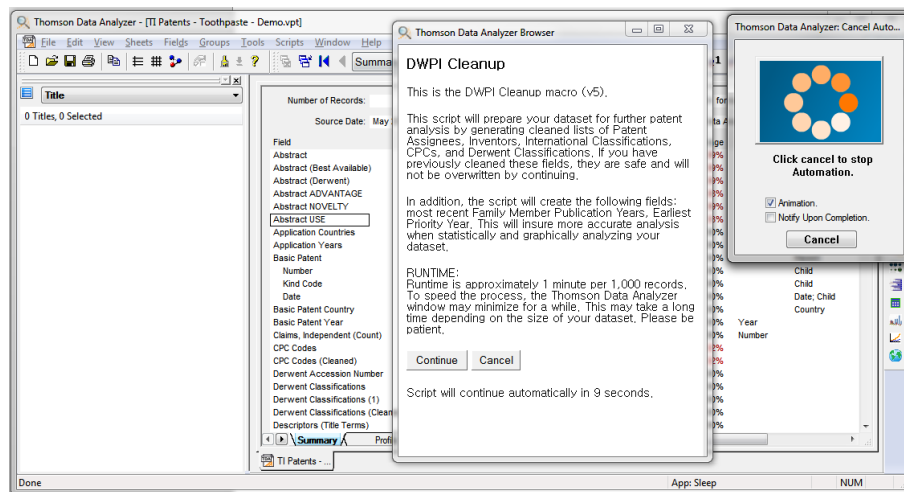
THOMSON REUTERS 构建自己的分类和同义词/近义词库 – 更精确的技术领域分析



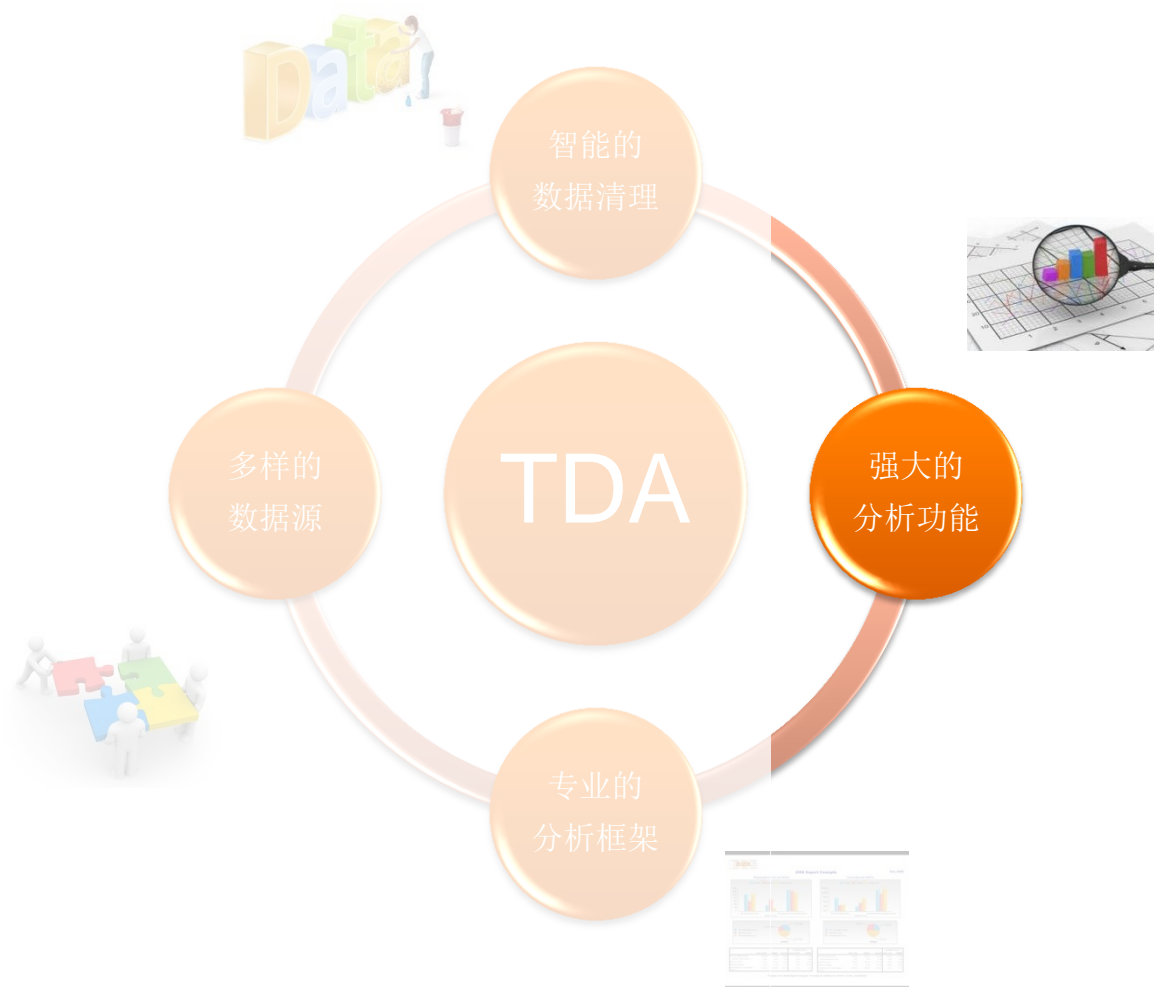
智能的数据清理 – DWPI数据自动清理

- 针对Thomson Innovation导出的包含DWPI信息的专利数据，TDA预置了DWPI数据自动清理功能，可以一键清理：

- 专利权人
- 发明人
- IPC分类
- 增加DWPI分类说明
- 添加最新DWPI专利家族成员信息
- 添加最早优先权专利信息
- . . .



TDA的优势



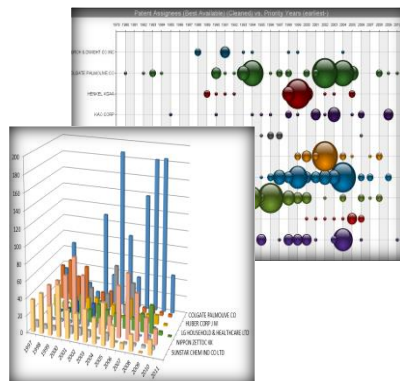
强大的分析功能

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1	1	1	195
2	1	1	189
3	1	1	134
4	1	1	132
5	1	1	112
6	2	2	85
7	1	1	84
8	1	1	82
9	1	1	81
10	1	1	79
11	1	1	75
12	3	3	72

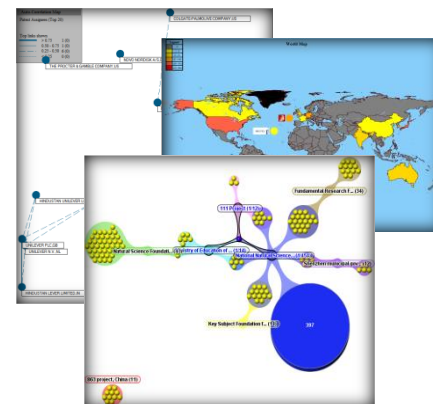
一维列表

Patent Assignees		1	2	3	4	5
# Records		195	64	60	56	56
Show Values >= 0.00 and <= 1.00						
Auto-Correlation # of Records Pearson's r						
# Records						
1	LION CORP	-0.133	-0.128	-0.124	-0.124	
2	UNILEVER PLC GB	-0.132	-0.070	-0.067	-0.067	
3	KAO CORP	-0.130	-0.070	-0.065	-0.065	
4	COLGATE-PALMOLIVE COMPANY US	-0.124	-0.067	-0.065	-0.063	
5	UNILEVER N.V. NL	-0.124	-0.067	-0.065	-0.063	
6	THE PROCTER & GAMBLE COMPANY US	-0.107	-0.059	-0.057	-0.055	
7	DAIICHI KASEI CO. LTD	-0.104	-0.056	-0.055	-0.053	
8	LG HOUSEHOLD & HEALTH CARE LTD	-0.089	-0.049	-0.047	-0.045	
9	DAIICHI KASEI CO. LTD	-0.088	-0.048	-0.046	-0.045	
10	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
11	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
12	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
13	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
14	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
15	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
16	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
17	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
18	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
19	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	
20	DAIICHI KASEI CO. LTD	-0.087	-0.048	-0.046	-0.045	

二维报表

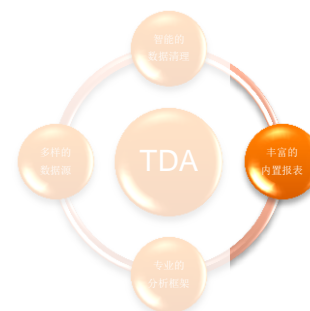


三维分析



地图呈现

- 一维列表：国家地区分析，优质专利分析，专利权人分析等
- 二维报表：相关性分析（共现矩阵，自相关矩阵，互相关矩阵）
- 三维分析：专利布局分析，技术演进分析，市场趋势分析等，气泡图
- 地图呈现：合作关系分析（Aduna图），国家地区分析（世界地图）等



强大的分析功能 – 一维列表

Number of Records: 948 Source Database: Thomson Innovation - Patents (TDA format)
Source Date: May 29 2013 22:41 Source File: C:\Program Files (x86)\Thomson Data Analyzer\Sai

Field	Number of Items	% Coverage	Data Type
Abstract	933	99%	
Abstract (Best Available)	944	99%	
Abstract (Derwent)			
Abstract ADVANTAGE			
Abstract NOVELTY			
Abstract USE			
Application Countries			
Application Years			
Basic Patent			
Number			
Kind Code			
Date			
Basic Patent Country			
Basic Patent Year			
Claims, Independent (Count)			
CPC Codes			
CPC Codes (Cleaned)			
Derwent Accession Number			
Derwent Classifications			
Derwent Classifications (Cleaned)			
Descriptors (Title Terms)			
DPCI Cited Non-Patent Count			
DPCI Cited Non-Patent Details			
Family Member			
Citation			
Relevance Category			
Source			
DPCI Cited Patent Count			
DPCI Cited Patent Details			
Patent Assignee Codes			
Patent Assignee Codes (count)			
Patent Assignees			
Patent Assignees (Best Available)			
Patent Assignees (Best Available) (Cleaned)			
Patent Assignees (Cleaned - No Individuals)			
Patent Assignees (Cleaned)			
Patent Assignees (long)			
Priority Countries			
Priority Countries (earliest)			
Priority Dates			
Priority Numbers			
Priority Numbers (long)			
Priority Years			
Priority Years (earliest)			
Publication Country			
Publication Date			
Publication Kind Code			
Publication Number			
Publication Number (Thomson Innovation Link)			
Publication Year			

根据被引数量 (Cited) 查找核心专利

Thomson Data Analyzer - [TI Patents - Toothpaste - Demo.vpt]

File Edit View Sheets Fields Groups Tools Scripts Window Help

List: DPCI Cited Patent Count

1 Titles, 0 Selected

Topical oral composition, e.g. mouth rinse, for...

CPC Codes

1	A61K31/00
1	A61K31/407
1	A61K31/4164
1	A61K31/426
1	A61K31/662
1	A61K45/06
1	A61K8/02

Display Record

Field Name	Value
Derwent Accession Number	2007418275
Basic Patent	US20070053849A1 / A1 / 2007-03-08
Title	Oral care compositions containing combinations of anti-bacterial and host-response modulating agents
Title (Best Available)	Topical oral <u>composition</u> , e.g. mouth rinse, for treating and preventing bacteria-mediated diseases of the oral cavity, contains combination of first anti-inflammatory agent(s) and second anti-bacterial agent(s) in carrier
Abstract (Derwent)	A topical oral <u>composition</u> contains first active agent(s) having inhibitory activity against host pro-inflammatory factor(s) such as matrix metalloproteinase, cyclooxygenase, PGE 2, interleukin 1 (IL-1), IL-1β converting enzyme, transforming growth factor β1, inducible nitric oxide synthase, hyaluronidase, cathepsin, nuclear factor kappa B, or IL-1 receptor associated kinase; second active agent(s) having inhibitory activity against bacterial virulence factor(s) such as biofilm formation, biofilm adherence, or enzymes (e.g. gingipains, METase, or Cystatysin); and carrier. An INDEPENDENT CLAIM is included for treatment and prevention of oral cavity bacterial infection and inhibition of systemic disease mediated by oral cavity

Notes about this record

Omit from new datasets

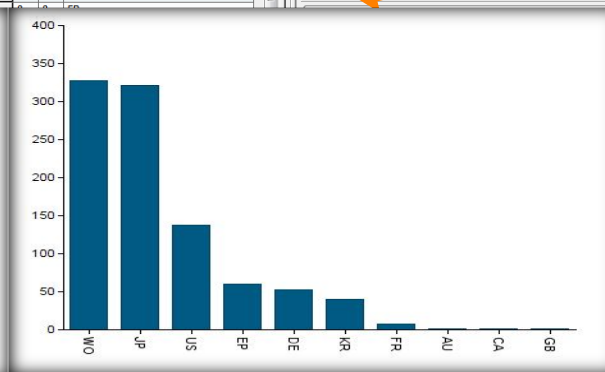
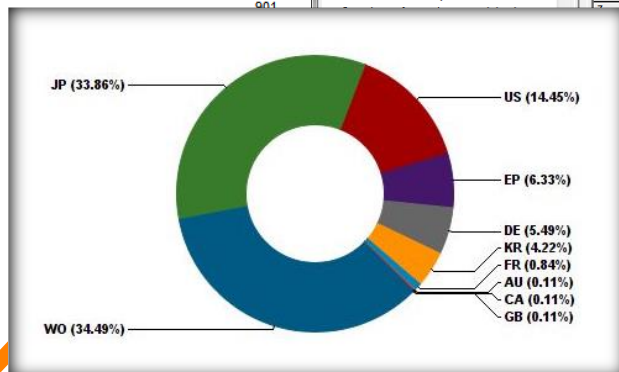
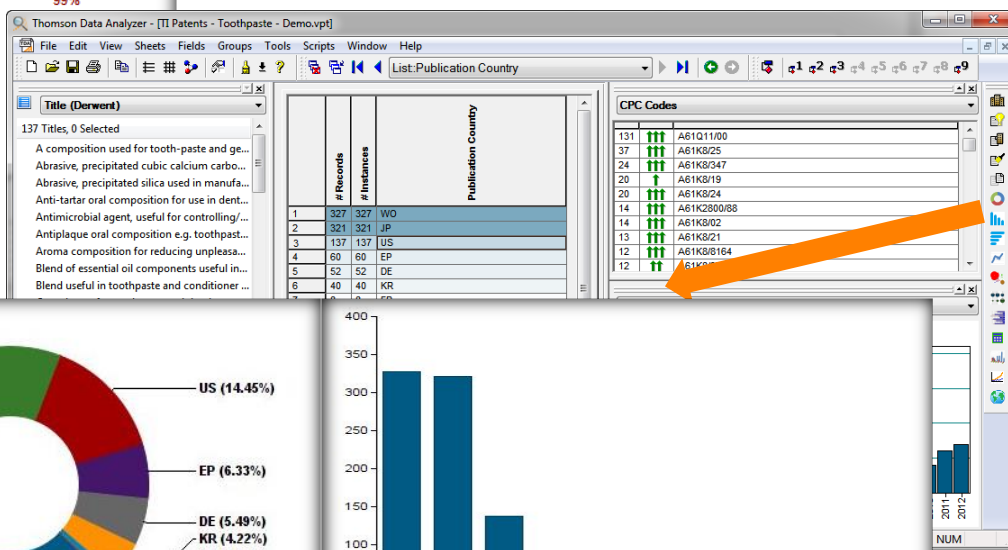
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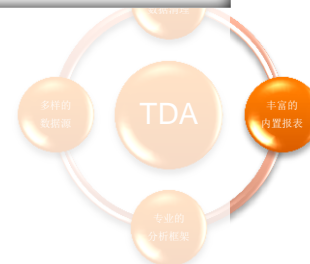
强大的分析功能 – 一维列表

Number of Records:	948	Source Database:	Thomson Innovation - Patents (TDA format)
Source Date:	May 29 2013 22:41	Source File:	C:\Program Files (x86)\Thomson Data Analyzer\Sai
Field	Number of Items	% Coverage	Data Type
Abstract	933	99%	
Abstract (Best Available)	944	99%	
Abstract (Derwent)	944		
Abstract ADVANTAGE	832		
Abstract NOVELTY	944		
Abstract USE	848		
Application Countries	10		
Application Years	21		
Basic Patent	948		
Number	948		
Kind Code	5		
Date	588		
Basic Patent Country	10		
Basic Patent Year	20		
Claims, Independent (Count)	14		
CPC Codes	901		
CPC Codes (Cleaned)	901		
Derwent Accession Number			
Derwent Classifications			
Derwent Classifications (Cleaned)			
Descriptors (Title Terms)			
DPCI Cited Non-Patent Count			
DPCI Cited Non-Patent Details			
Family Member			
Citation			
Relevance Category			
Source			
DPCI Cited Patent Count			
DPCI Cited Patent Details			
Patent Assignee Codes			
Patent Assignee Codes (count)			
Patent Assignees			
Patent Assignees (Best Available)			
Patent Assignees (Best Available) (Cleaned)			
Patent Assignees (Cleaned - No Individuals)			
Patent Assignees (Cleaned)			
Patent Assignees (long)			
Priority Countries	13	99%	
Priority Countries (earliest)	12	99%	
Priority Dates	840	99%	
Priority Numbers	1134	99%	
Priority Numbers (long)	1134	99%	
Priority Years	21	99%	Year
Priority Years (earliest)	21	99%	Year
Publication Country	10	100%	
Publication Date	626	100%	
Publication Kind Code	16	100%	
Publication Number	948	100%	
Publication Number (Thomson Innovation Link)	948	100%	Link
Publication Year	20	100%	Year

分析专利国家/地区分布情况

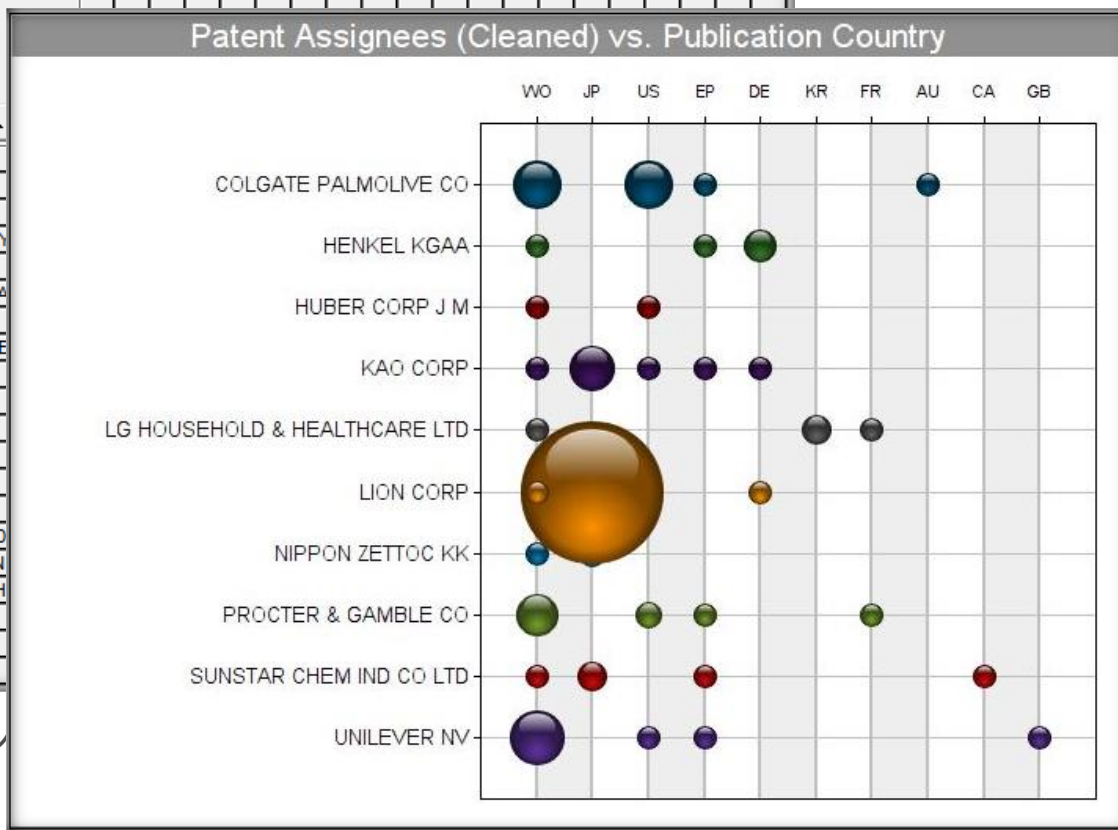


一键生成相关图表



强大的分析功能 – 二维报表

Reset		Patent Assignees	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Publication Year	# Records	▼ ▲																				
		Show Values >= 1 and <= 30																				
	# Records	▼ ▲																				
		Cooccurrence # of Records																				
1	186	LION CORP																				
2	64	UNILEVER PLC,GB																				
3	60	KAO CORP																				
4	56	COLGATE-PALMOLIVE COMPANY																				
5	56	UNILEVER N.V.,NL																				
6	44	THE PROCTER & GAMBLE COMP																				
7	40	SUNSTAR INC																				
8	30	LG HOUSEHOLD & HEALTH CARE																				
9	29	NIPPON ZETTOC CO LTD																				
10	21	The Procter & Gamble Company																				
11	20	HINDUSTAN LEVER LIMITED,IN																				
12	19	LION CORPORATION,JP																				
13	16	KAO CORPORATION,JP																				
14	16	NOVO NORDISK A/S,DK																				
15	15	Henkel KGaA,40589 Düsseldorf,D																				
16	15	HINDUSTAN UNILEVER LIMITED,IN																				
17	12	HENKEL KOMMANDITGESELLSCH																				
18	12	HINDUSTAN LEVER LTD,IN																				
19	12	PRENCIPE Michael,US																				
20	11	Colgate Palmolive Company																				



布局分析

7	8	9	10
8	1	1	1
FR	AU	CA	GB
	1		
1			
			1
1			
		1	

利用共现矩阵做专利权

8	46	SUNSTAR CHEM IND CO LTD	4	39		2			
9	35	NIPPON ZETTOC KK	1	34					
10	32	HUBER CORP J M	9		23				



THOMSON REUTERS

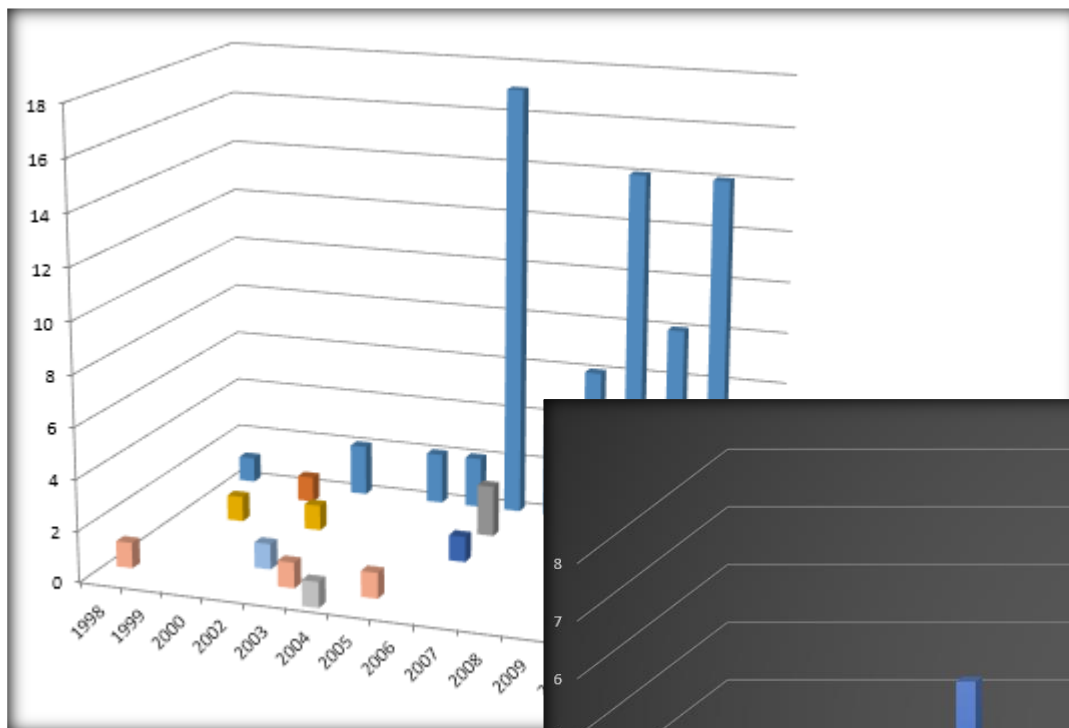
.....

利用**互相关矩阵**展示公司间技术研发的相似程度

Reset	Patent Assignees (Cleaned)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Patent Assignees (Cleaned)	# Records	207	132	95	91	82	6	62	47	46	35	32	29	26	23	23	20	14	12	12	8	8
	▼																					
	▲																					
	Show Values >= 0.00 and <= 1.00																					
	Cross-Correlation Crossed With: International Classifications 8 (Cleaned) 1 Groups (Items) # of Records Pearson's r	LION CORP	COLGATE PALMOLIVE CO	PROCTER & GAMBLE CO	UNILEVER NV	KAO CORP	HENKEL KGAA	LG HOUSEHOLD & HEALTHCARE LTD	SUNSTAR CHEM IND CO LTD	NIPPON ZETTO KK	HUBER CORP J M	SYMRISE GIMB&CO KG	L'OREAL SA	BASF SE	TAKASAGO INT CORP	NOVOZYMES AS	PRENCEPI M	MASTERS J G	MC GILL P D	FULTZ W C	ROBINSON R S	
▼																						
1	207	LION CORP	0.897	0.897	0.881	0.848	0.940	0.869	0.907	0.944	0.908	0.672	0.691	0.534	0.534	0.537	0.603	0.708	0.691	0.533	0.596	0.630
2	132	COLGATE PALMOLIVE CO	0.897	0.904	0.903	0.925	0.925	0.917	0.905	0.874	0.818	0.756	0.673	0.442	0.488	0.478	0.537	0.858	0.787	0.620	0.709	0.741
3	95	PROCTER & GAMBLE CO	0.861	0.903	0.880	0.886	0.872	0.892	0.832	0.825	0.784	0.741	0.633	0.496	0.544	0.481	0.510	0.770	0.729	0.587	0.643	0.613
4	91	UNILEVER NV	0.848	0.925	0.886	0.909	0.868	0.885	0.881	0.812	0.757	0.770	0.692	0.491	0.551	0.462	0.510	0.757	0.710	0.642	0.730	0.611
5	82	KAO CORP	0.940	0.925	0.872	0.868	0.904	0.898	0.859	0.926	0.857	0.707	0.676	0.488	0.500	0.510	0.505	0.736	0.712	0.560	0.633	0.641
6	62	HENKEL KGAA	0.869	0.917	0.892	0.885	0.898	0.900	0.871	0.827	0.793	0.763	0.662	0.497	0.541	0.470	0.524	0.741	0.756	0.617	0.682	0.626
7	47	LG HOUSEHOLD & HEALTHCARE LTD	0.857	0.905	0.832	0.881	0.859	0.677	0.900	0.811	0.823	0.701	0.710	0.430	0.497	0.522	0.508	0.704	0.679	0.579	0.704	0.598
8	46	SUNSTAR CHEM IND CO LTD	0.944	0.874	0.825	0.812	0.926	0.827	0.811	0.900	0.863	0.638	0.669	0.507	0.511	0.501	0.518	0.717	0.646	0.502	0.572	0.647
9	35	NIPPON ZETTO KK	0.909	0.818	0.784	0.757	0.857	0.793	0.823	0.863	0.900	0.650	0.609	0.514	0.467	0.524	0.556	0.641	0.644	0.549	0.587	0.556
10	32	HUBER CORP J M	0.672	0.756	0.741	0.770	0.707	0.763	0.701	0.638	0.650	0.900	0.526	0.324	0.384	0.342	0.372	0.672	0.728	0.912	0.897	0.464
11	29	SYMRISE GIMB&CO KG	0.691	0.673	0.633	0.692	0.676	0.662	0.710	0.669	0.609	0.526	0.600	0.400	0.435	0.631	0.410	0.502	0.503	0.423	0.519	0.459
12	26	L'OREAL SA	0.534	0.442	0.496	0.491	0.488	0.497	0.430	0.507	0.514	0.324	0.400	0.000	0.678	0.358	0.358	0.338	0.308	0.251	0.272	0.295
13	23	BASF SE	0.534	0.488	0.544	0.551	0.500	0.541	0.497	0.511	0.467	0.384	0.435	0.678	0.000	0.357	0.359	0.384	0.335	0.272	0.337	0.319
14	23	TAKASAGO INT CORP	0.537	0.478	0.481	0.462	0.510	0.470	0.522	0.501	0.524	0.342	0.631	0.358	0.357	0.000	0.305	0.346	0.380	0.272	0.308	0.365
15	20	NOVOZYMES AS	0.603	0.537	0.510	0.510	0.505	0.524	0.508	0.514	0.556	0.372	0.410	0.358	0.359	0.305	0.000	0.428	0.534	0.297	0.354	0.368
16	14	PRENCEPI M	0.705	0.858	0.770	0.757	0.736	0.741	0.704	0.717	0.641	0.672	0.502	0.338	0.384	0.346	0.426	0.000	0.732	0.573	0.616	0.881
17	12	MASTERS J G	0.681	0.797	0.729	0.710	0.712	0.756	0.679	0.646	0.644	0.728	0.503	0.308	0.335	0.380	0.534	0.732	0.000	0.629	0.642	0.570
18	12	MC GILL P D	0.583	0.620	0.587	0.642	0.560	0.617	0.579	0.502	0.549	0.912	0.423	0.251	0.272	0.272	0.297	0.573	0.629	0.000	0.952	0.373
19	8	FULTZ W C	0.599	0.706	0.643	0.730	0.633	0.682	0.704	0.572	0.587	0.887	0.519	0.272	0.337	0.308	0.354	0.618	0.642	0.952	0.000	0.448
20	8	ROBINSON R S	0.630	0.741	0.613	0.611	0.641	0.626	0.598	0.647	0.556	0.464	0.459	0.295	0.319	0.365	0.368	0.881	0.570	0.373	0.448	0.000

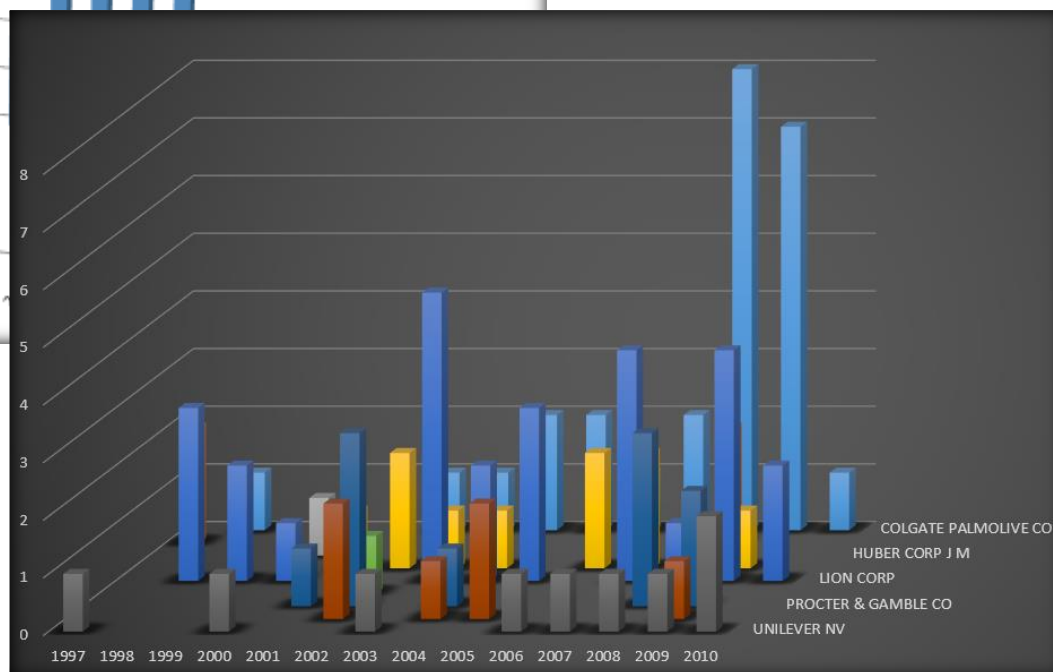


强大的分析功能 – 三维分析



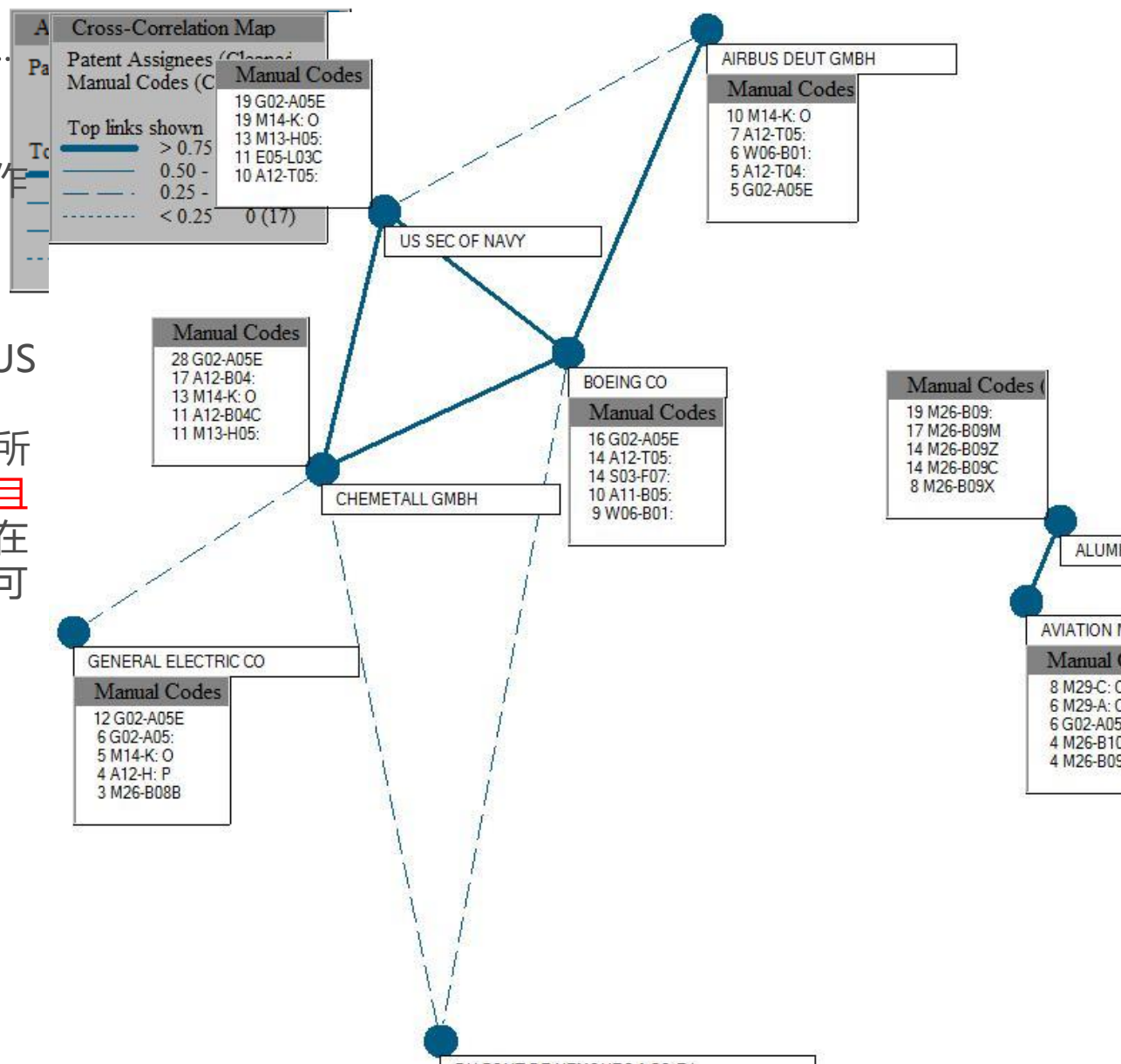
前五名主要专利权人在
台湾的专利布局

前五名主要专利权人在某
技术领域公开的研发趋势



主要专利权人之间的自/互相关地图

航空航天耐腐蚀领域

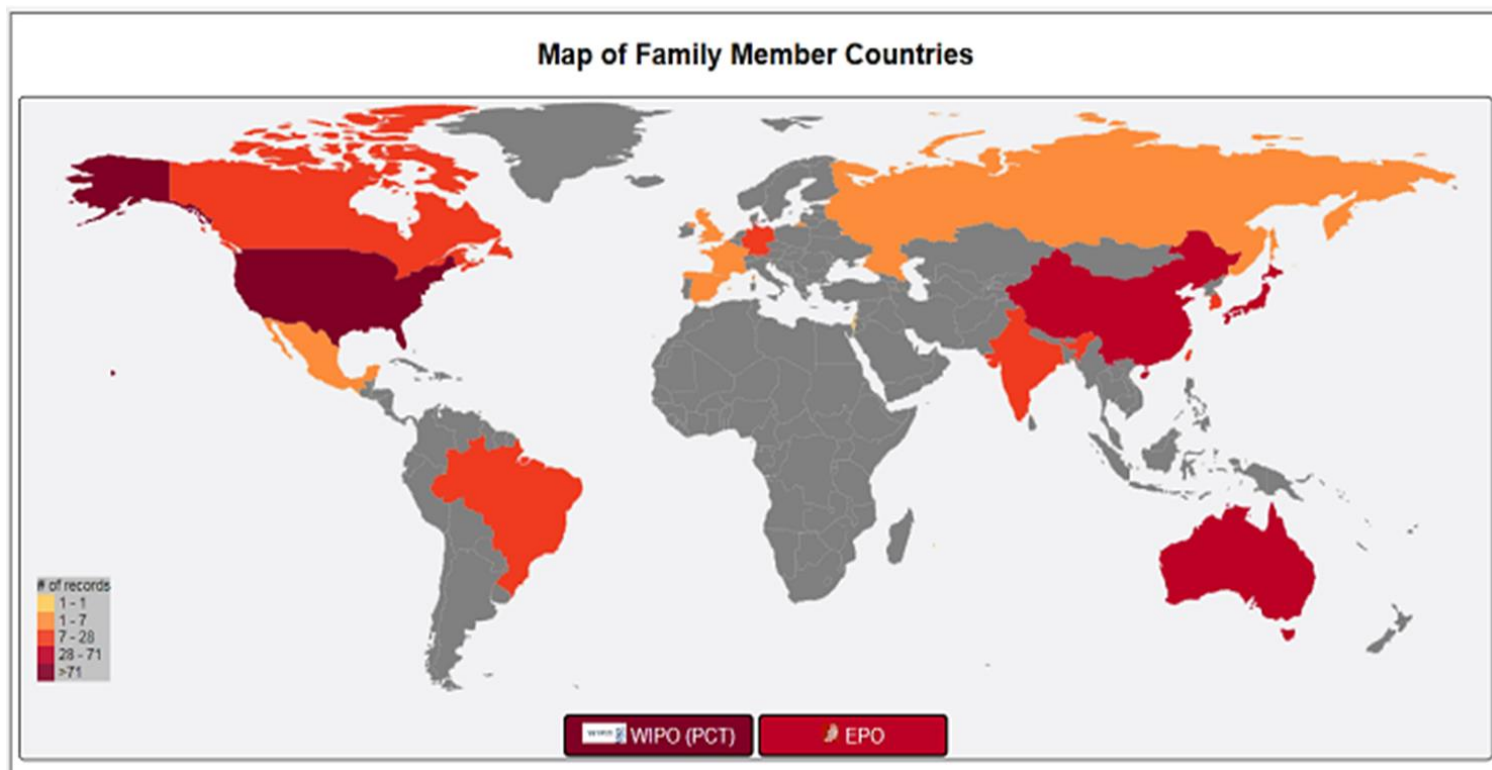


主要专利权人几乎没有专利合作的情况。

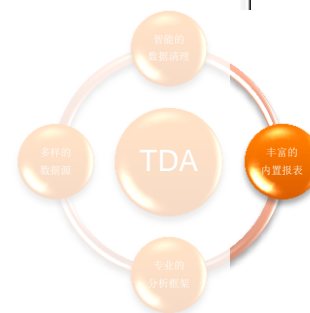
专利权人BOEING CO、AIRBUS DEUT GMBH、US SEC OF NAVY、CHEMETALL GMBH所代表的节点之间的连线粗而且距离近，说明专利权人的专利在所属技术领域上相似度较高，可能是潜在的竞争对手。



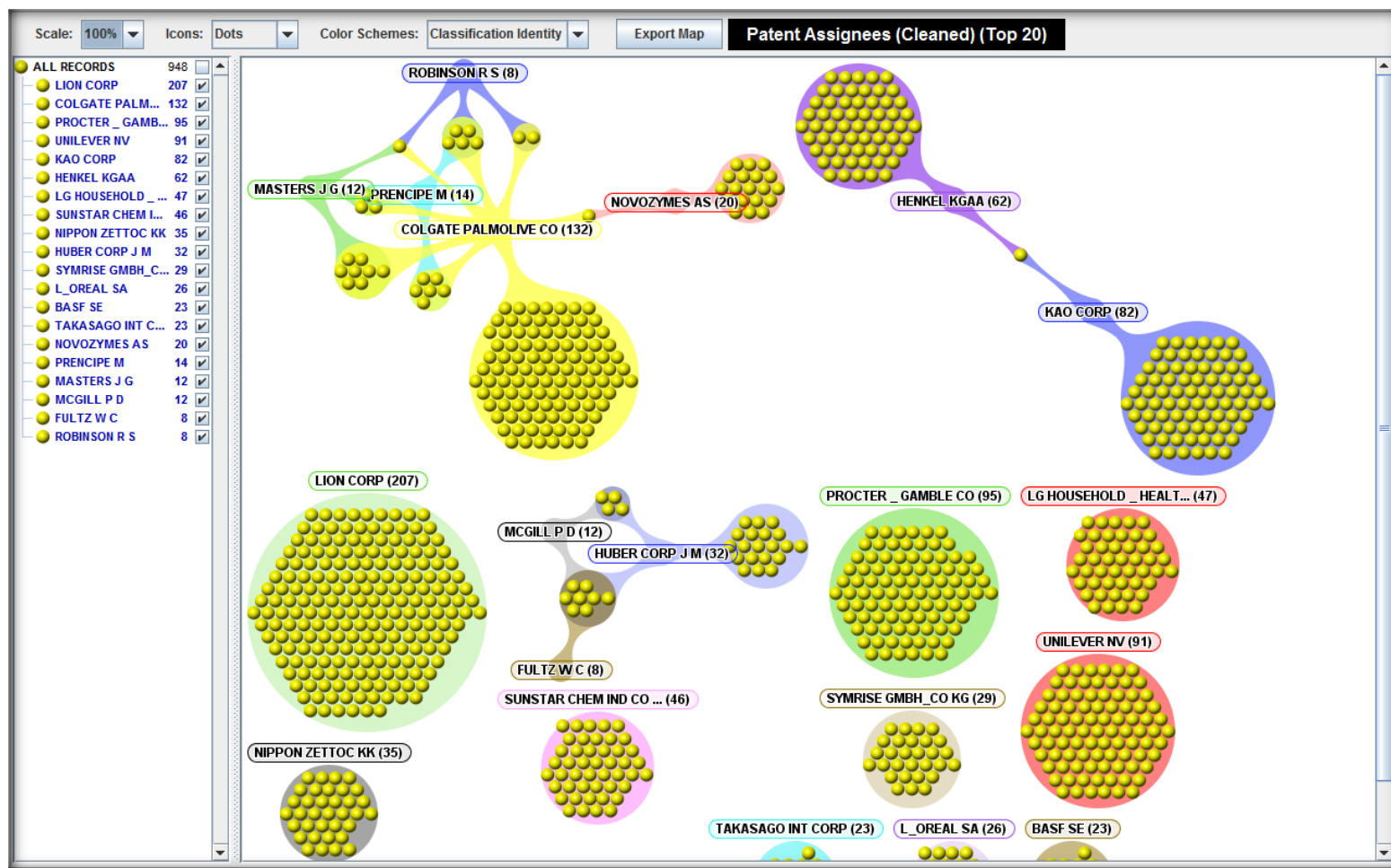
强大的分析功能 – 地图呈现



一键式地图展现-某公司在某一领域专利的国家/地区分布



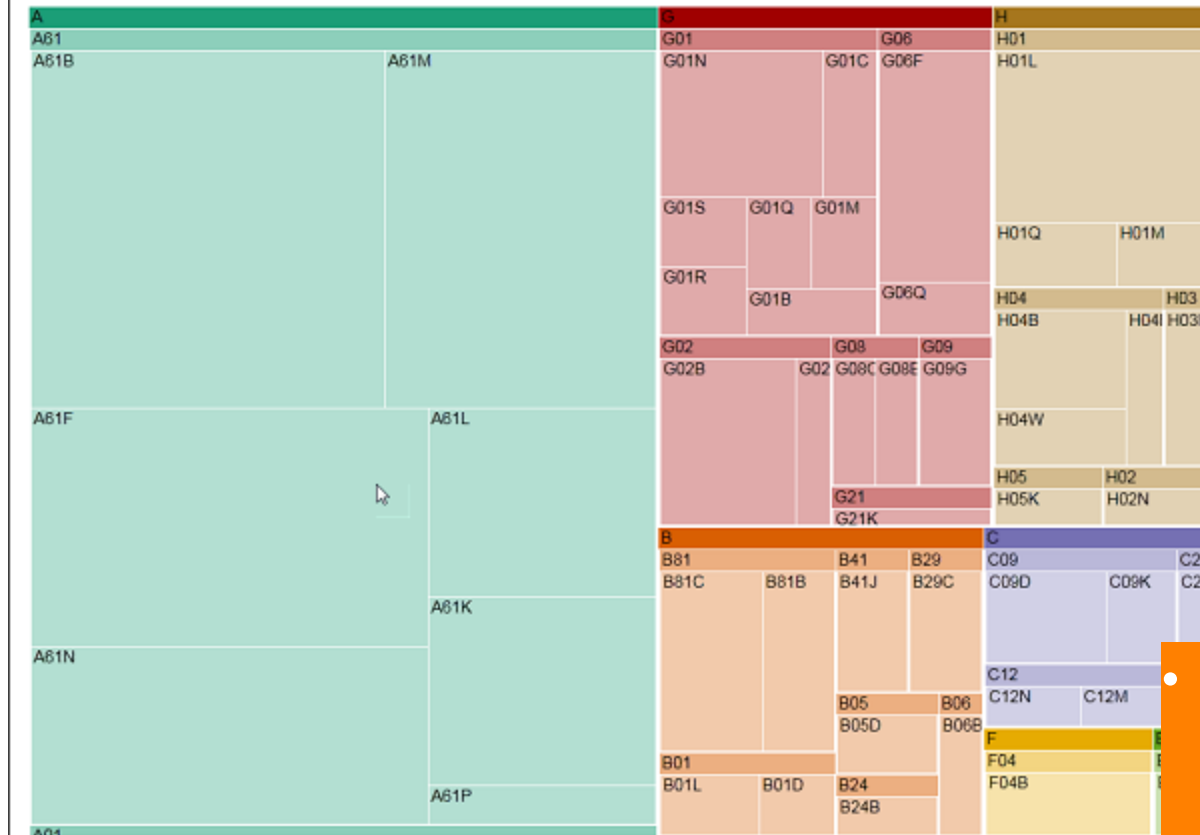
强大的分析功能 – Aduna图



Aduna图展示高露洁在同行业的合作关系以展示行业竞合态势

TREEMAPS (树形图)

Treemap of International Classifications 8 (subclass) (Cleaned):3+



International Classifications 8 (subclass) (Cleaned)	
12	G01N: Measuring, Testing -> Investigating Or Analysing Materials By Deter
3	B01L: Physical Or Chemical Processes Or Apparatus In General -> Chemi
3	B81B: Micro-Structural Technology -> Micro-Structural Devices Or Systems
3	C12M: Biochemistry; Beer; Spirits; Wine; Vinegar; Microbiology; Enzymology
2	A61B: Medical Or Veterinary Science; Hygiene -> Diagnosis; Surgery; Ide
2	A61L: Medical Or Veterinary Science; Hygiene -> Methods Or Apparatus
2	B01J: Physical Or Chemical Processes Or Apparatus In General -> Chemi
2	C40B: Combinatorial Technology -> Combinatorial Chemistry; Libraries; E.O.
2	F04B: Positive-Displacement Machines For Liquids; Pumps For Liquids Or B
2	G06F: Computing; Calculating; Counting -> Electric Digital Data Processing
2	H01L: Basic Electric Elements -> Semiconductor Devices; Electric Solid Sta
1	B01D: Physical Or Chemical Processes Or Apparatus In General -> Separa
1	B81C: Micro-Structural Technology -> Processes Or Apparatus Specially
1	B82B: Nano-Technology -> Nano-Structures; Manufacture Or Treatment Th
1	C07K: Organic Chemistry -> Peptides
1	C12N: Biochemistry; Beer; Spirits; Wine; Vinegar; Microbiology; Enzymology
1	C12Q: Biochemistry; Beer; Spirits; Wine; Vinegar; Microbiology; Enzymology
1	C25D: Electrolytic Or Electrophoretic Processes; Apparatus Therefor -> Ph
1	F21H: Lighting -> Light Sources Not Otherwise Provided For
1	F21V: Lighting -> Functional Features Or Details Of Lighting Devices Or Sys
1	G01B: Measuring, Testing -> Measuring Length, Thickness Or Similar Linea
1	G01H: Measuring, Testing -> Measurement Of Mechanical Vibrations Or Ul
1	G01L: Measuring, Testing -> Measuring Force, Stress, Torque, Work, Mech
1	G01R: Measuring, Testing -> Measuring Electric Variables; Measuring Mac
1	G02B: Optics -> Optical Elements, Systems, Or Apparatus
1	G03F: Photography; Cinematography; Analogous Techniques Using Wave

☐ New Keywords

4 Keywords, 8 Selected

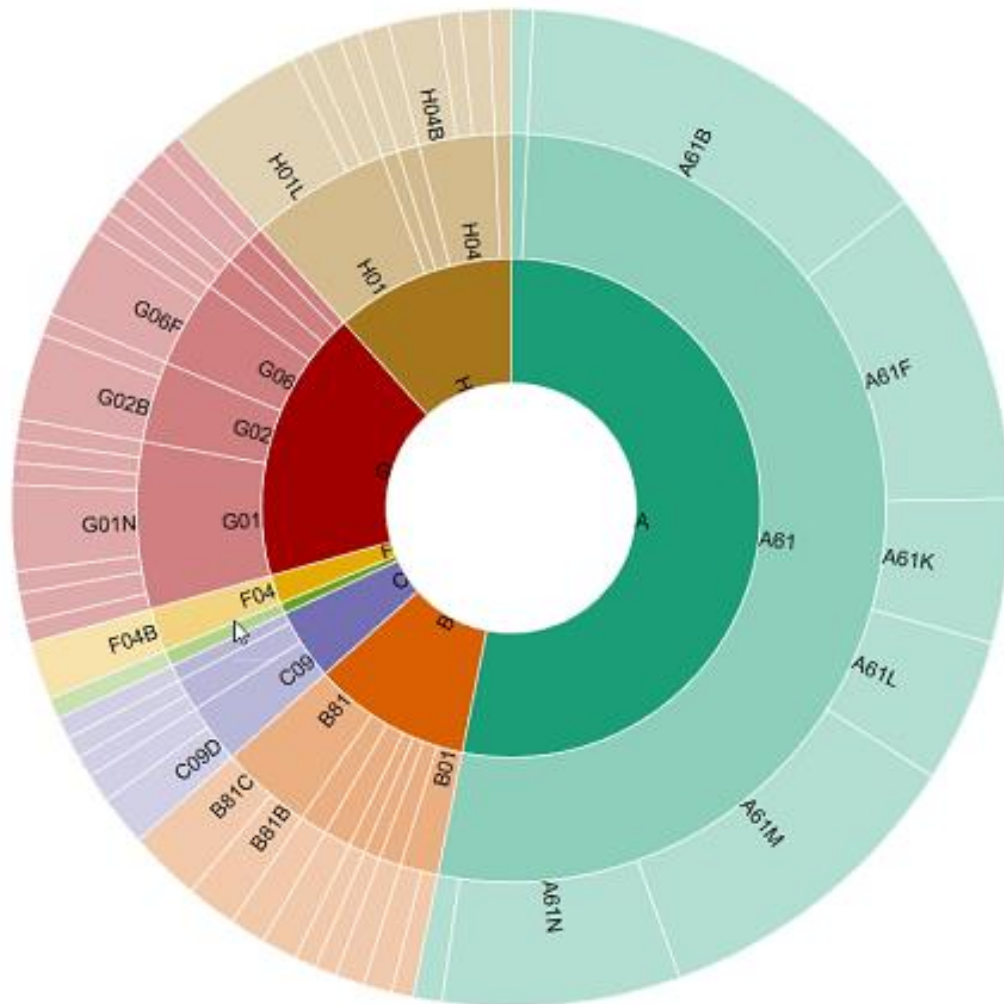
Blue
Green
Red
yellow

• 更易于解释复杂的多层级数据信息 (eg. IPCs and CPCs)



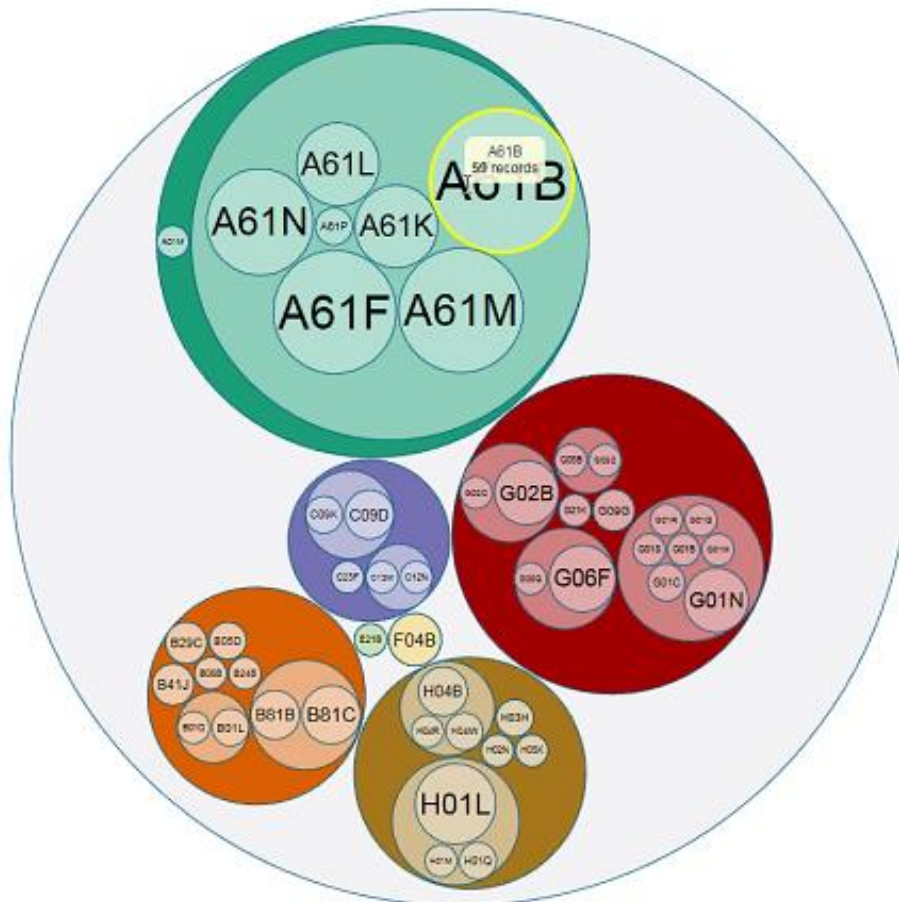
SUNBURST (光环谱图)

Sunburst of International Classifications 8 (subclass) (Cleaned):3+

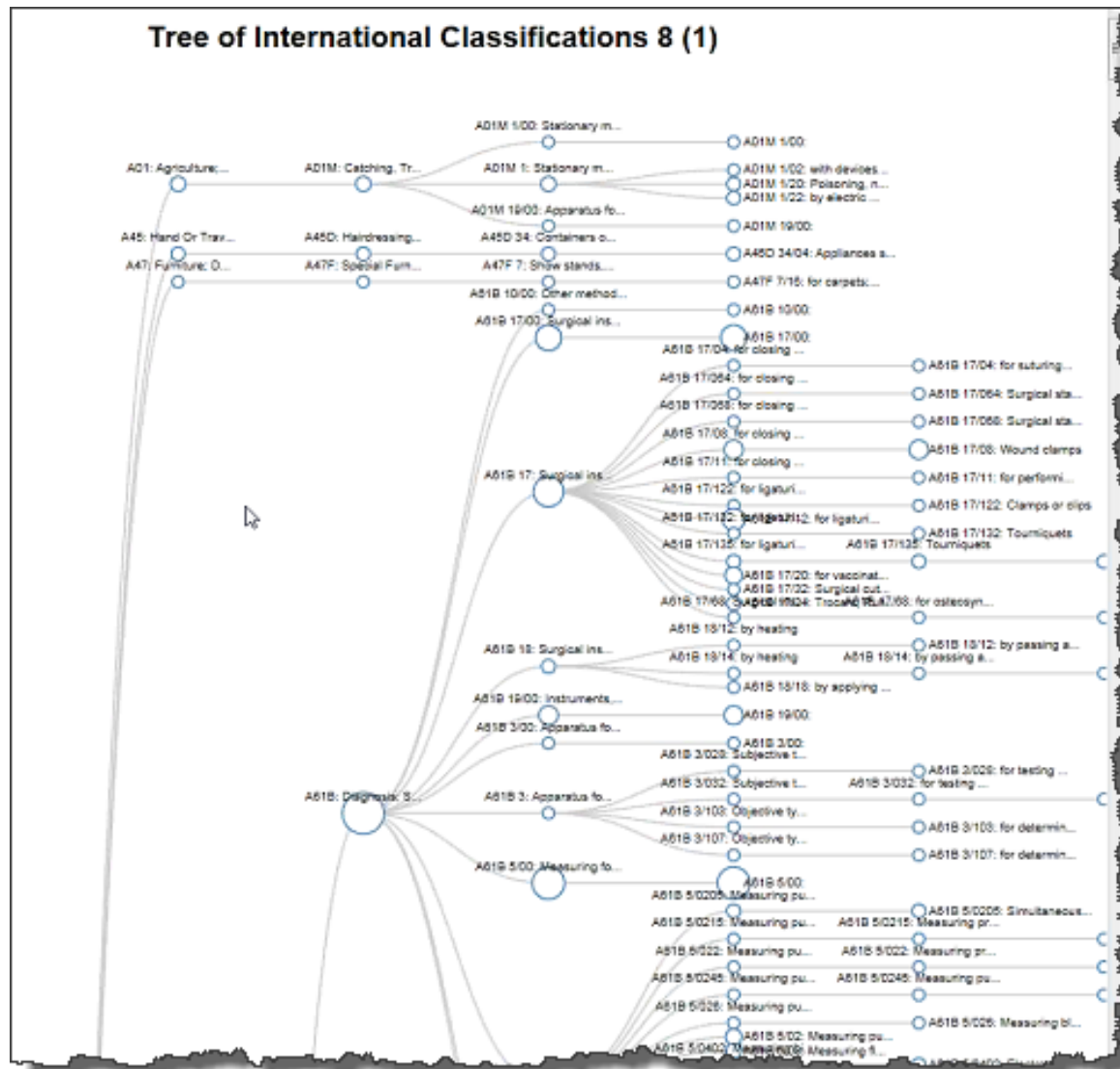


CIRCLE PACK (聚类圆群图)

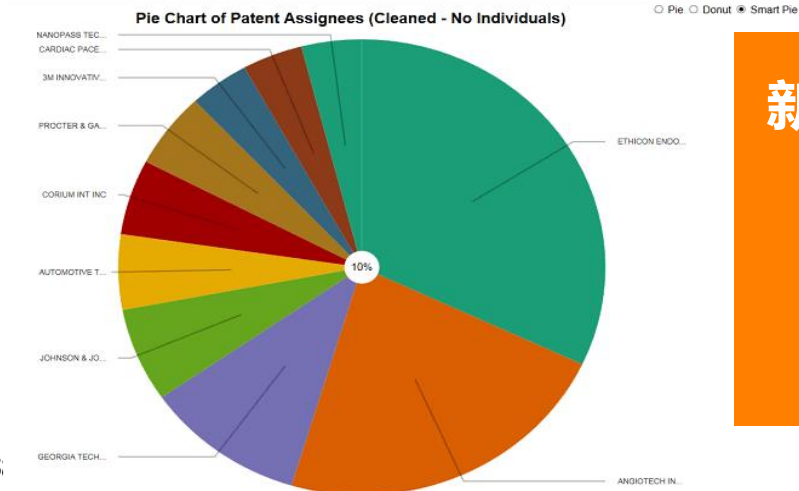
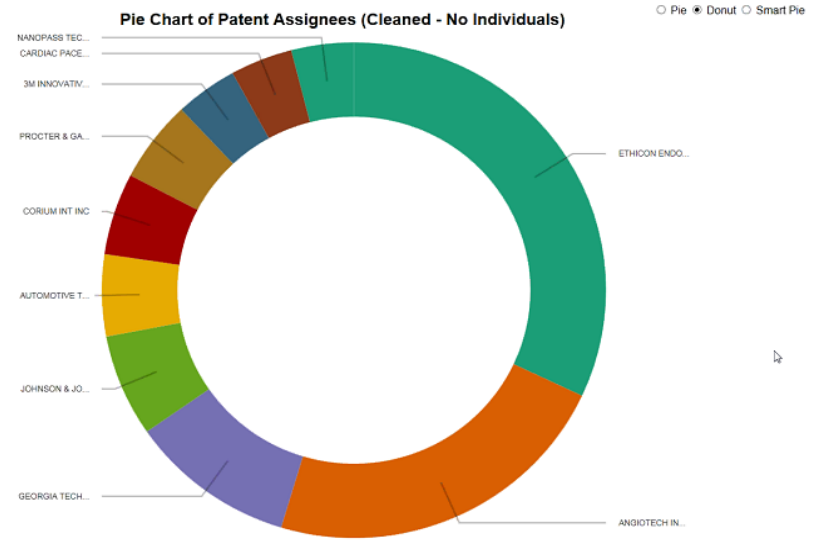
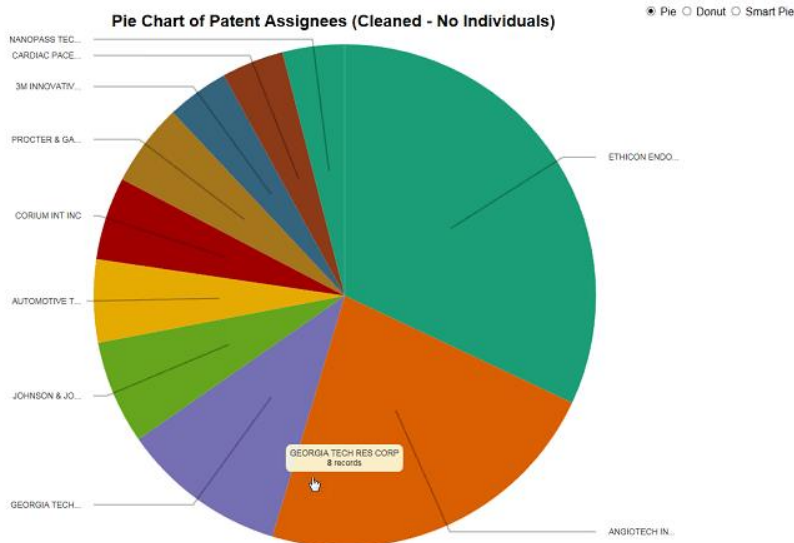
Packed Circle diagram of International Classifications 8 (SubClass):3+



BROWSE CLASSIFICATION (浏览分类图)



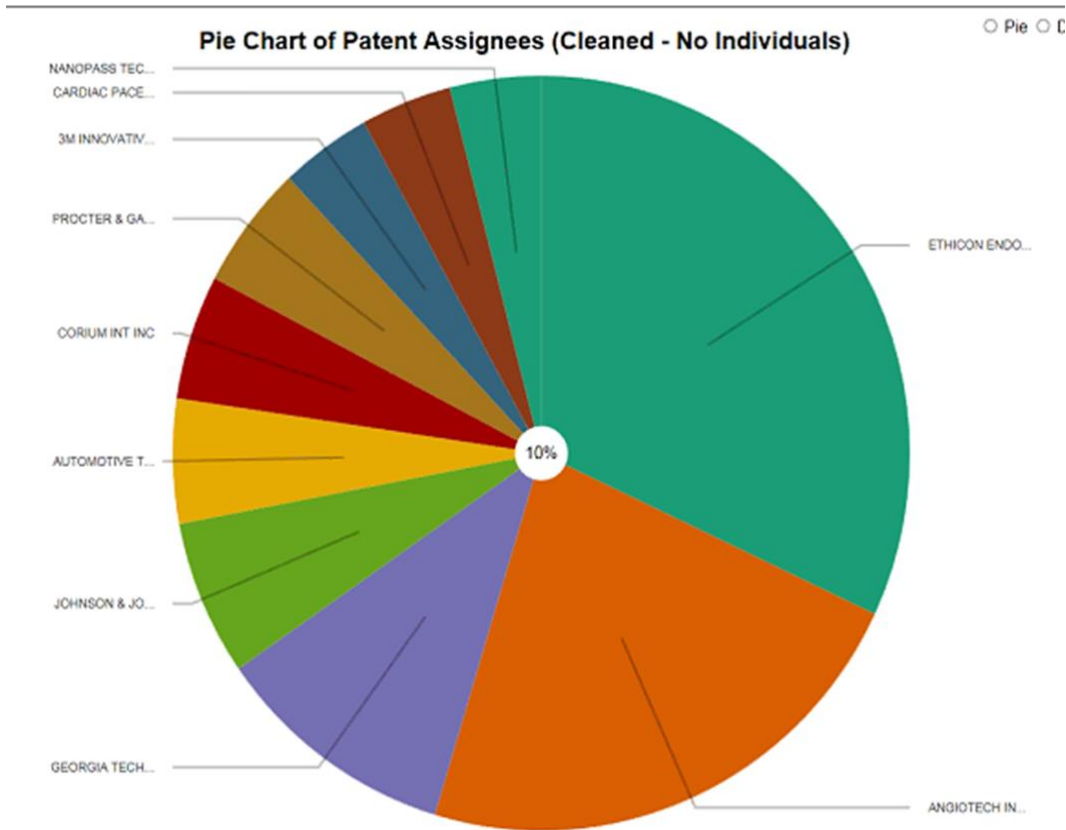
CIRCLE CHART (饼状图/环状图)



新增多个选项:

- Pie (饼图)
- Donut (环图)
- Smart pie (智能饼图)

SMART PIE (智能饼图)



- 中间的 %表明不同饼间彼此重叠的百分比.
- 本案例中, 专利权人中有**10%**的数据是彼此重叠的



强大的分析功能 – 文本挖掘

Technology Trends in Last 3 Years

Last 3 Years is: 2008 - 2006

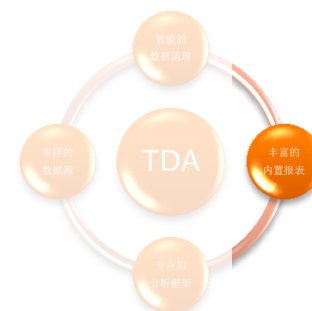
Terms First Used in Last 3 Years

titanium trichloride [3]
titanium oxide precursor slurry [2]
brookite type titanium dioxide [2]
oxy titanium sulfate [2]
oxy titanium sulfate aqueous solution [2]
water-soluble titanium dioxide nanoparticles [1]
growing cadmium chloride CdCl₂ cap [1]
growing n-type cadmium sulfide window [1]
radium [1]
cadmium telluride absorber [1]
heating titanium oxide [1]
cadmium telluride CdTe photovoltaic cell [1]
ruthenium [1]
cadmium telluride layer [1]
rutile type titanium oxide particles [1]
cadmium telluride photovoltaic cell 100 A1 comprising n-type cadmi
cadmium telluride photovoltaic cell comprising n-type cadmi
single-phase brookite type titanium dioxide. The hydroxycarb
sodium acetate aqueous solution 5 wt [1]
sodium ascorbate [1]
sodium bicarbonate [1]
hydrolyzing titanium alkoxide [1]
sodium bisulfite [1]
hydrous cerium oxide [1]
sodium chloride solution [1]
sodium dihydrogen phosphate [1]
hydroxycarboxylic acid titanium complex [1]
sodium fluoride [1]
impregnated sodium thiosulfate pentahydrate [1]
indium aluminum gallium nitride compound [1]
sodium hyposulfite [1]
sodium ion Na⁺ [1]

Terms No Longer Published in Last 3 Years

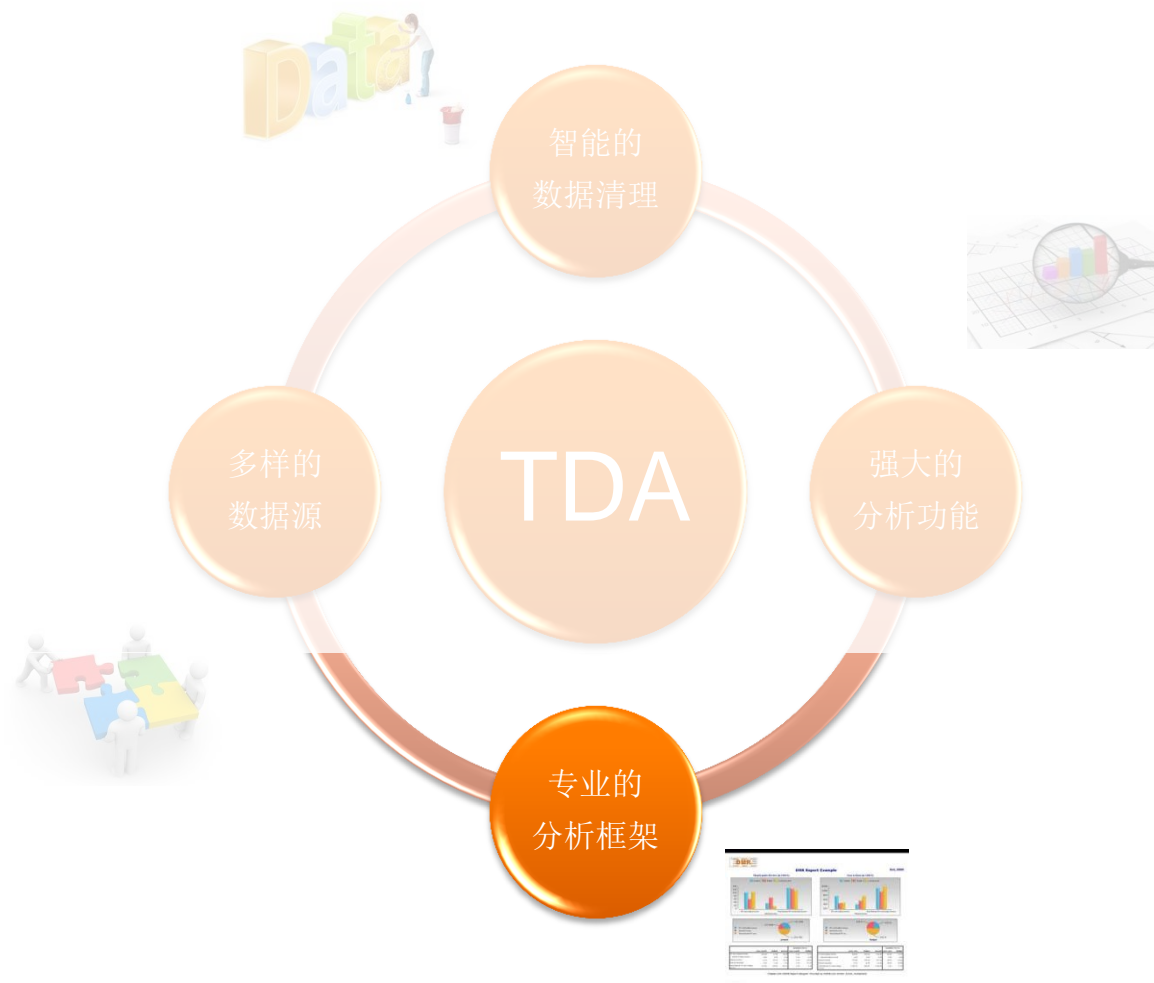
cadmium sulphide [7]
medium [6]
potassium hydroxide [6]
ammonium [4]
ruthenium oxide [4]
iridium oxide IrO₂ [4]
cesium [4]
titanium oxide film [4]
niobium oxide [4]
hydroxylated titanium gel [3]
sodium sulfide [3]
calcium phosphate [3]
redox medium [2]
rubidium [2]
anatase-type titanium oxide powder [2]
ruthenium oxide RuO₂ [2]
rutile titanium dioxide [2]
silicon-titanium mixed oxide powder [2]
calcium carbonate [2]
calcium compound [2]
calcium hydroxide [2]
calcium silicate [2]
tetramethylammonium hydroxide [2]
titanium dioxide film [2]
titanium dioxide particles [2]
cerium oxide [2]
chromium oxide [2]
metallic palladium [2]
titanium raw material [2]
titanium tetraalkoxide [2]
titanium tetraisopropoxide [2]
titanium-containing aqueous liquid [2]

- 基于TDA特有的文本挖掘功能，可以对专利技术信息进行深入的分析
- 左图展示了某一技术领域最近三年新出现的技术词汇和最近三年不再使用的技术词汇，从而通过词汇的研读可以了解技术发展趋势和热点



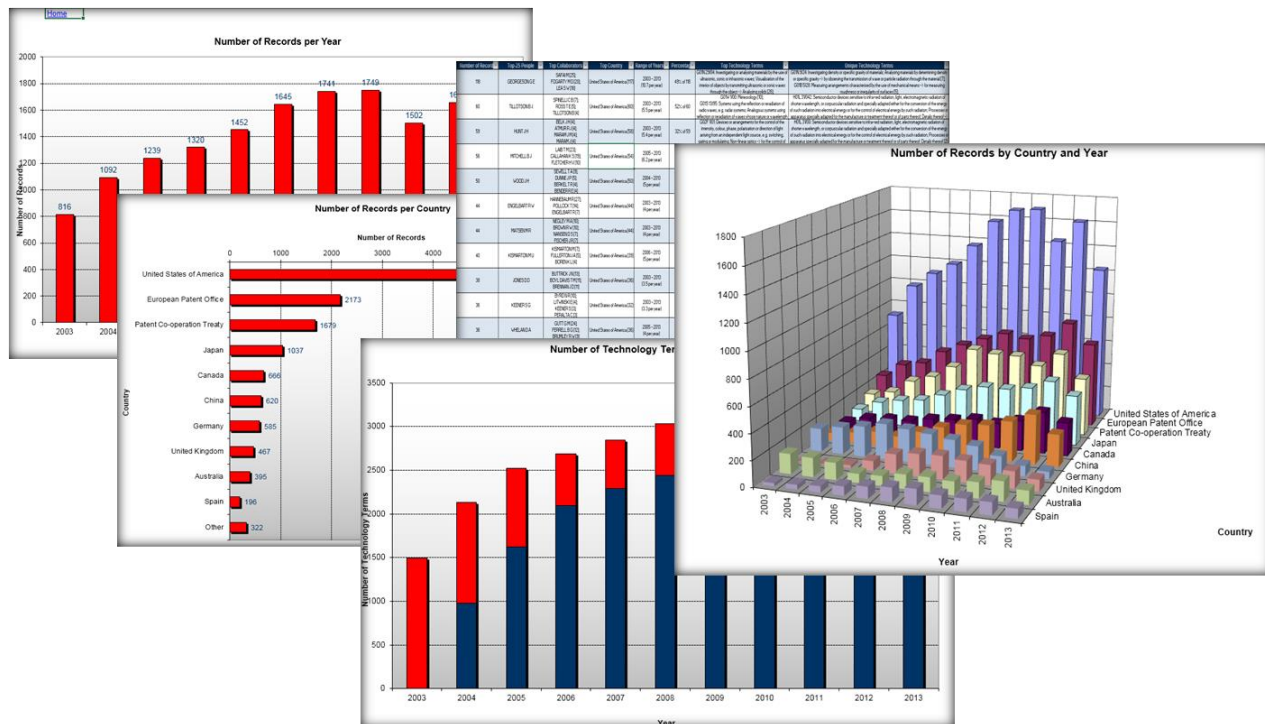
THOMSON REUTERS

TDA的优势



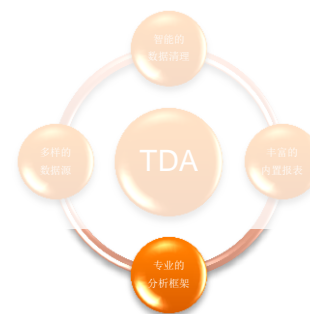
缺乏情报分析思路？

一键式生成
报告！



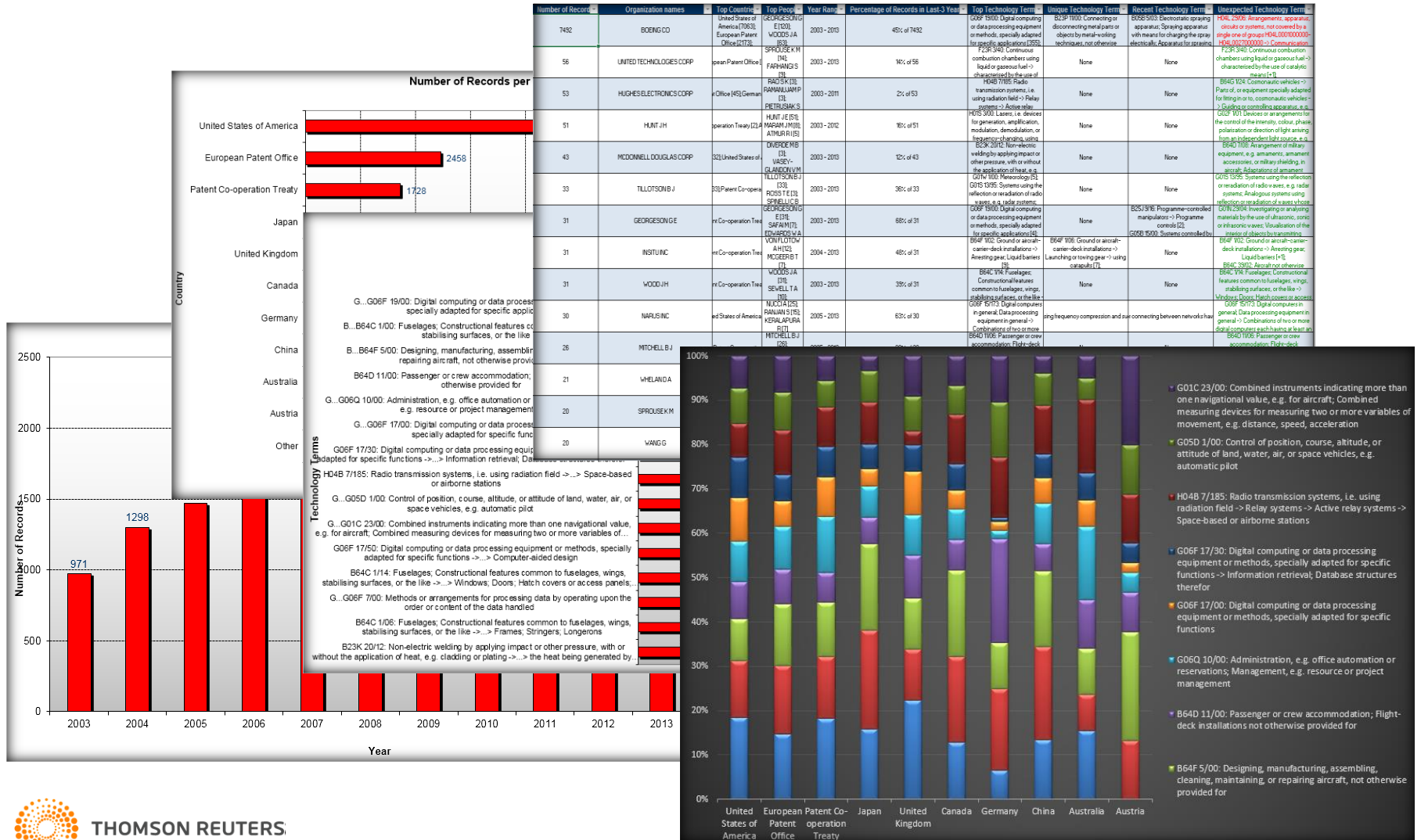
专业的分析框架

- 基于专业的分析框架，TDA能够快速生成全方位分析报告：
 - 公司分析报告
 - 公司间比较分析报告
 - 某一领域的技术分析报告
- 通过分析报告可以快速从多个角度了解：
 - 各目标分析公司的专利发展情况及内部研发团队成员情况
 - 特定技术领域的发展趋势
 - 核心专利发明人及其所属公司
 - 潜在的专利推广对象
- TDA根据客户的反馈不断地增加和升级各种分析报告，以满足多方位的分析需求



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专业的分析框架 – 技术分析报告



小结：



全景分析

- ❖ 本研究领域的时空分布
- ❖ 国家/地区及机构研究产出分布
- ❖ 本领域主要研究机构合作网络图谱
- ❖ 高影响力文献的主要研究领域
- ❖ 本领域的高影响力作者

案例：动画相关研究



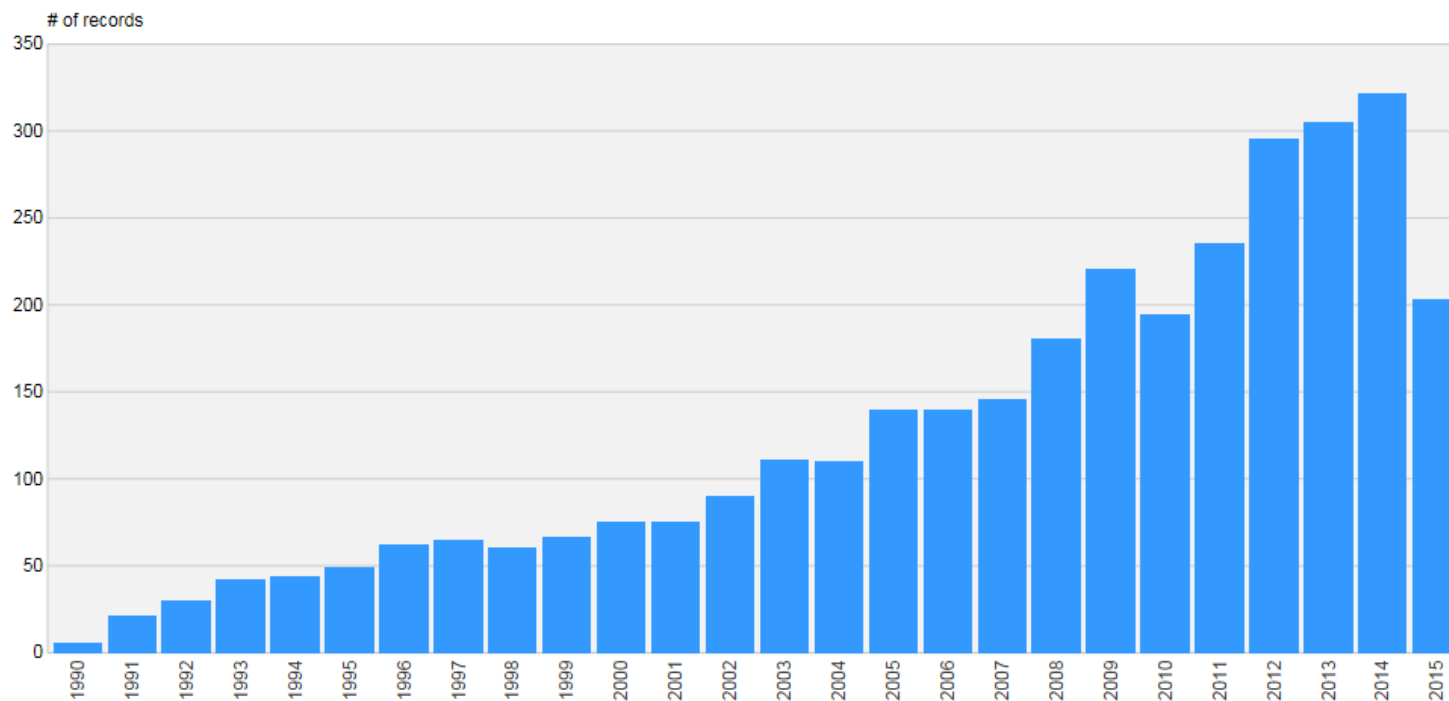
“动画”的定义相对比较广泛，从广义的角度来看“动画”一词，它不仅包含动画和漫画，还包括了视频网络游戏、相关的娱乐和艺术，以及各种衍生品。同时还包含与动画相关的电子技术、艺术文化、心理学及教育研究等内容。

ANIMATION

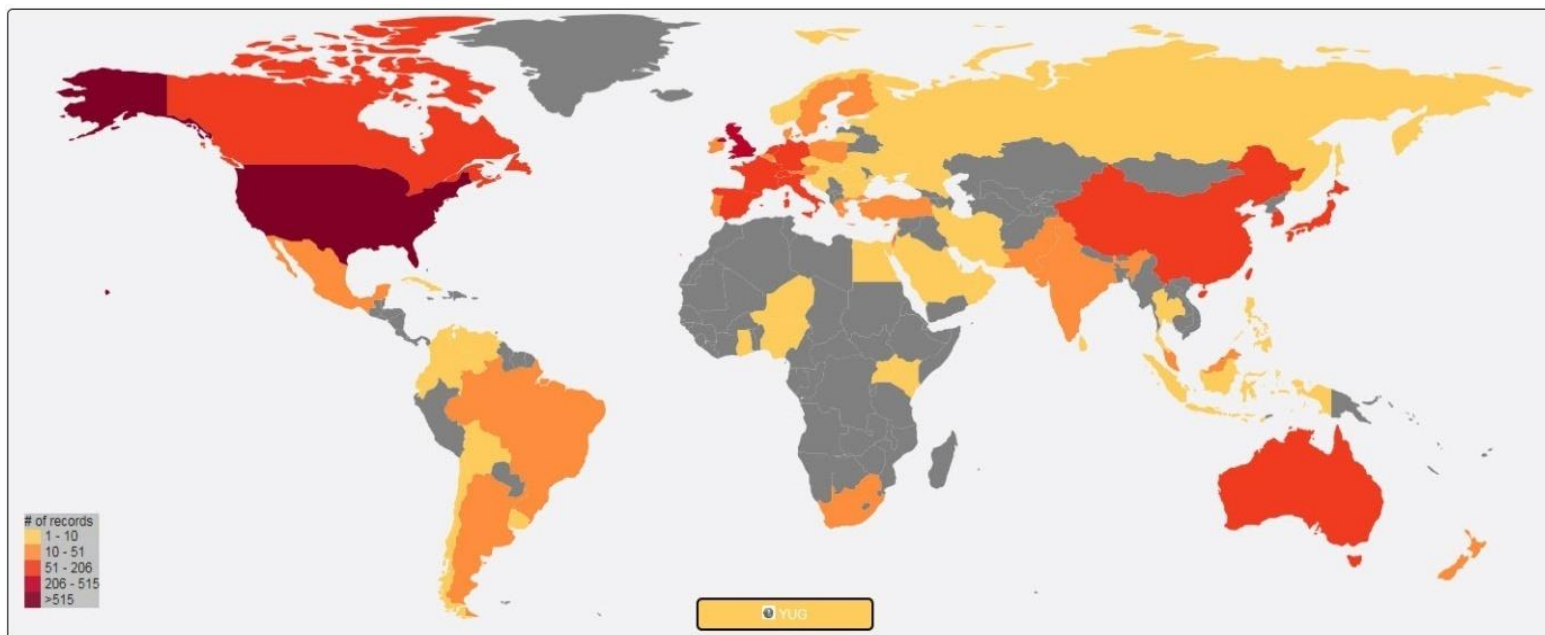


动画研究领域1990-2015发表论文趋势分布

Chart of Publication Year:1990-2015



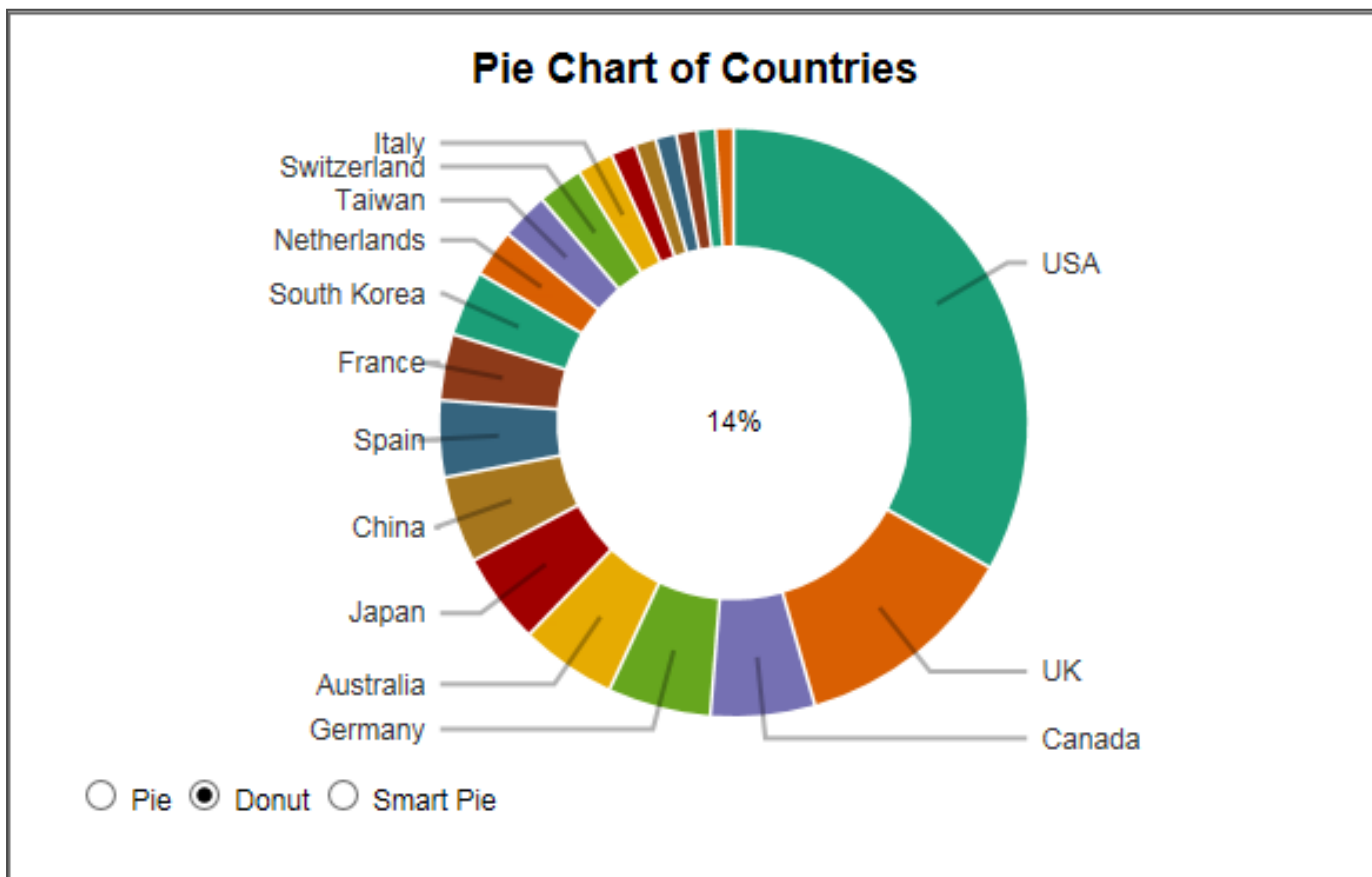
动画研究领域的国家/地区及机构分布



世界地图—动画研究领域论文的国家/地区分布



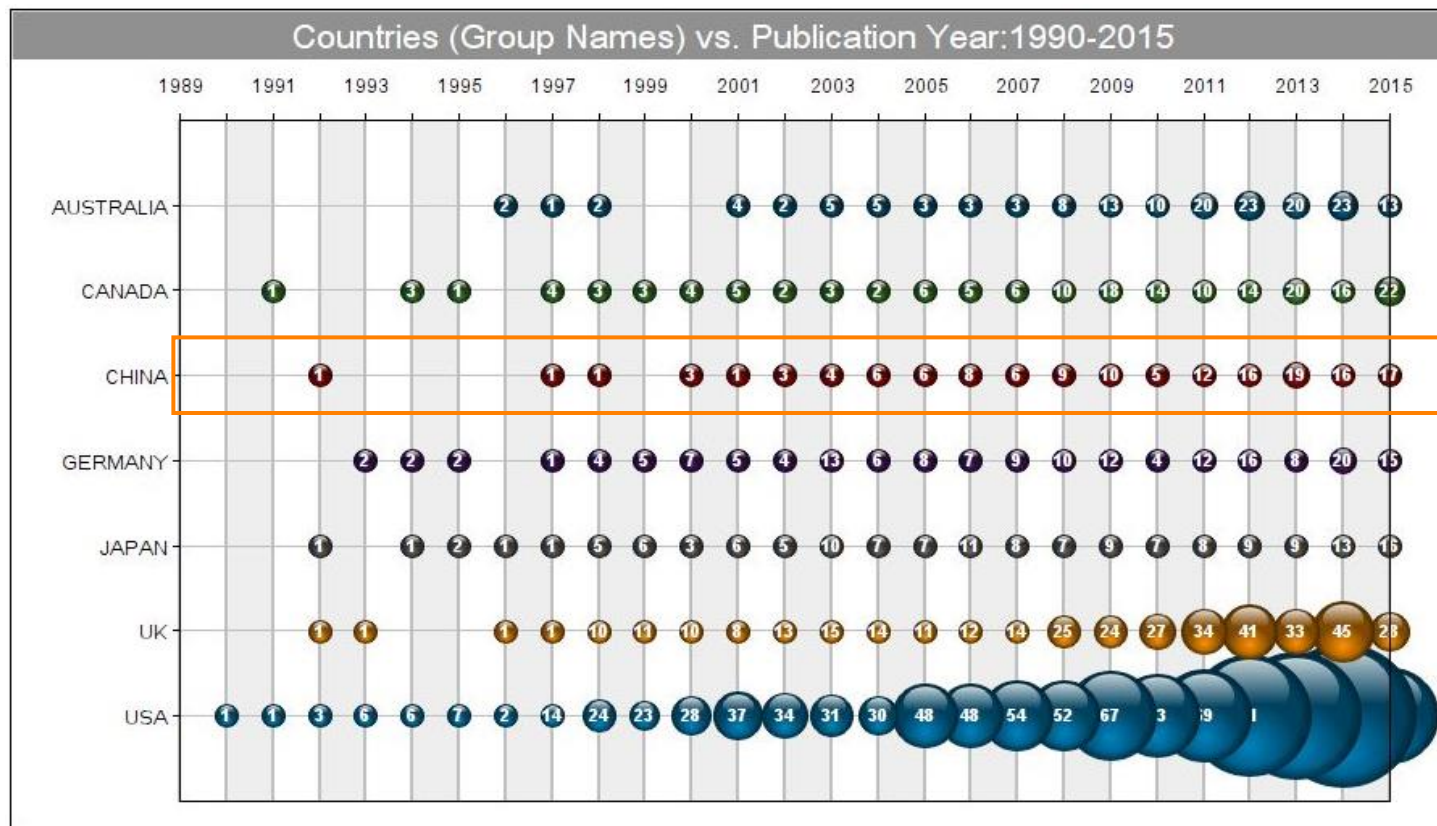
动画研究领域的国家/地区及机构分布



动画研究领域论文的TOP20科研国家/地区



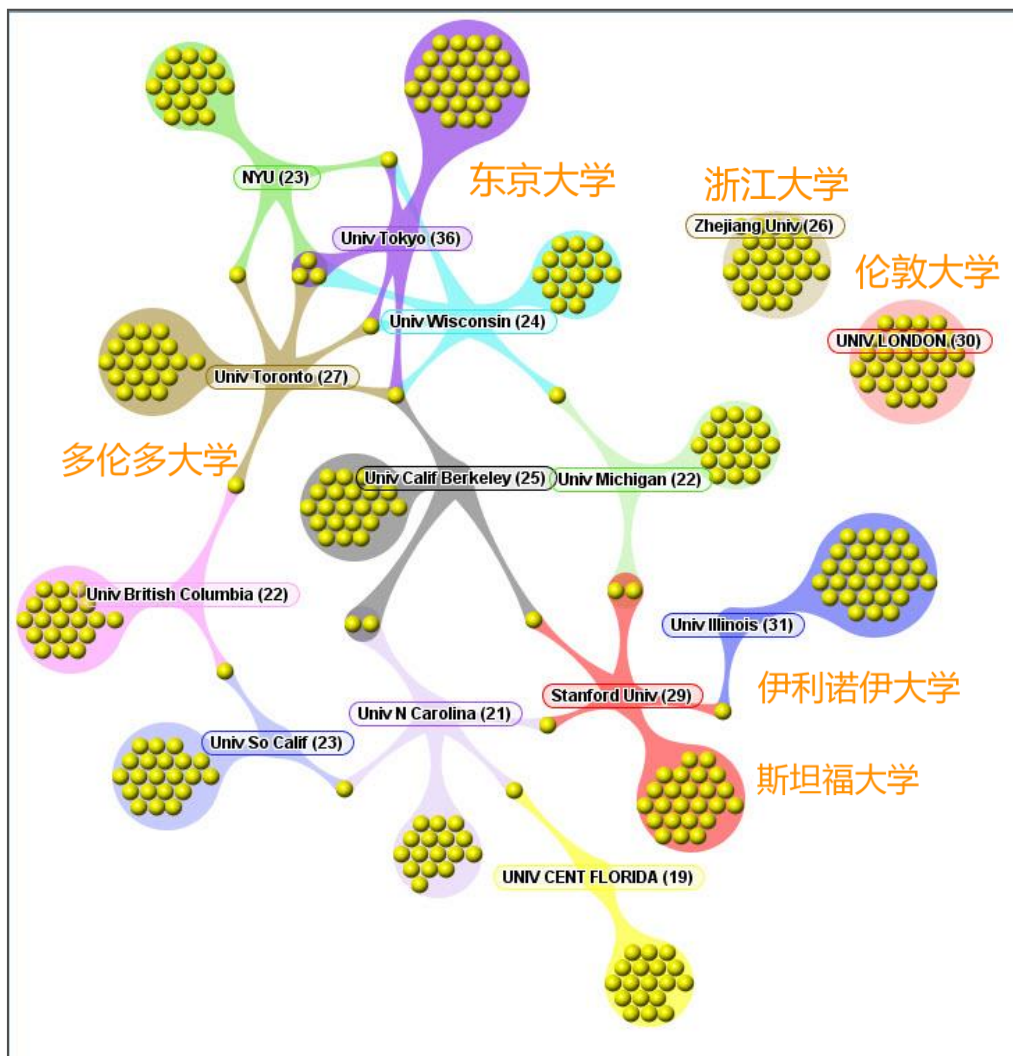
TOP7国家/地区在1990-2015年间发表论文趋势对比



气泡图—动画研究领域论文总量TOP7国家/地区在1990-2015年间发表论文趋势对比

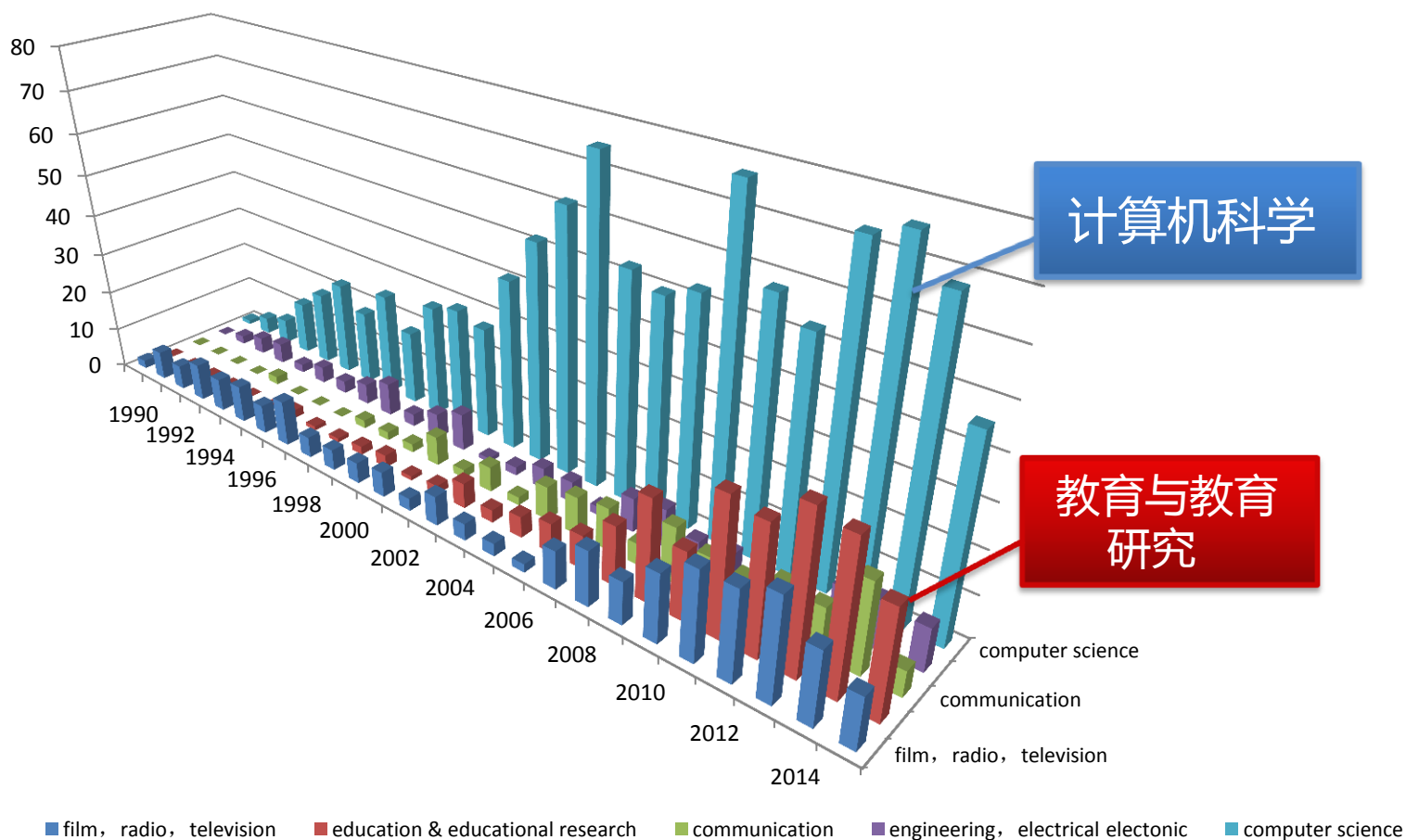
动画相关课题的主要研究机构及其合作情况

	# Records	# Instances	Author Affiliations (Organizations)	top15
1	36	46	Univ Tokyo	<input checked="" type="checkbox"/>
2	31	38	Univ Illinois	<input checked="" type="checkbox"/>
3	30	32	UNIV LONDON	<input checked="" type="checkbox"/>
4	29	33	Stanford Univ	<input checked="" type="checkbox"/>
5	27	31	Univ Toronto	<input checked="" type="checkbox"/>
6	26	35	Zhejiang Univ	<input checked="" type="checkbox"/>
7	25	26	Univ Calif Berkeley	<input checked="" type="checkbox"/>
8	24	24	Univ Wisconsin	<input checked="" type="checkbox"/>
9	23	23	NYU	<input checked="" type="checkbox"/>
10	23	26	Univ So Calif	<input checked="" type="checkbox"/>
11	22	27	Univ British Columbia	<input checked="" type="checkbox"/>
12	22	27	Univ Michigan	<input checked="" type="checkbox"/>
13	21	27	Univ N Carolina	<input checked="" type="checkbox"/>
14	19	26	UNIV CENT FLORIDA	<input checked="" type="checkbox"/>
15	18	20	Harvard Univ	<input type="checkbox"/>
16	18	20	Indiana Univ	<input type="checkbox"/>
17	18	22	Nanyang Technol Univ	<input type="checkbox"/>
18	18	19	UCL	<input type="checkbox"/>
19	18	21	Univ Cambridge	<input type="checkbox"/>
20	18	19	Univ Geneva	<input type="checkbox"/>



Aduna图—动画相关课题下机构间的合作关系 (TOP14)

动画研究领域文献研究领域分布 (1990-2015)



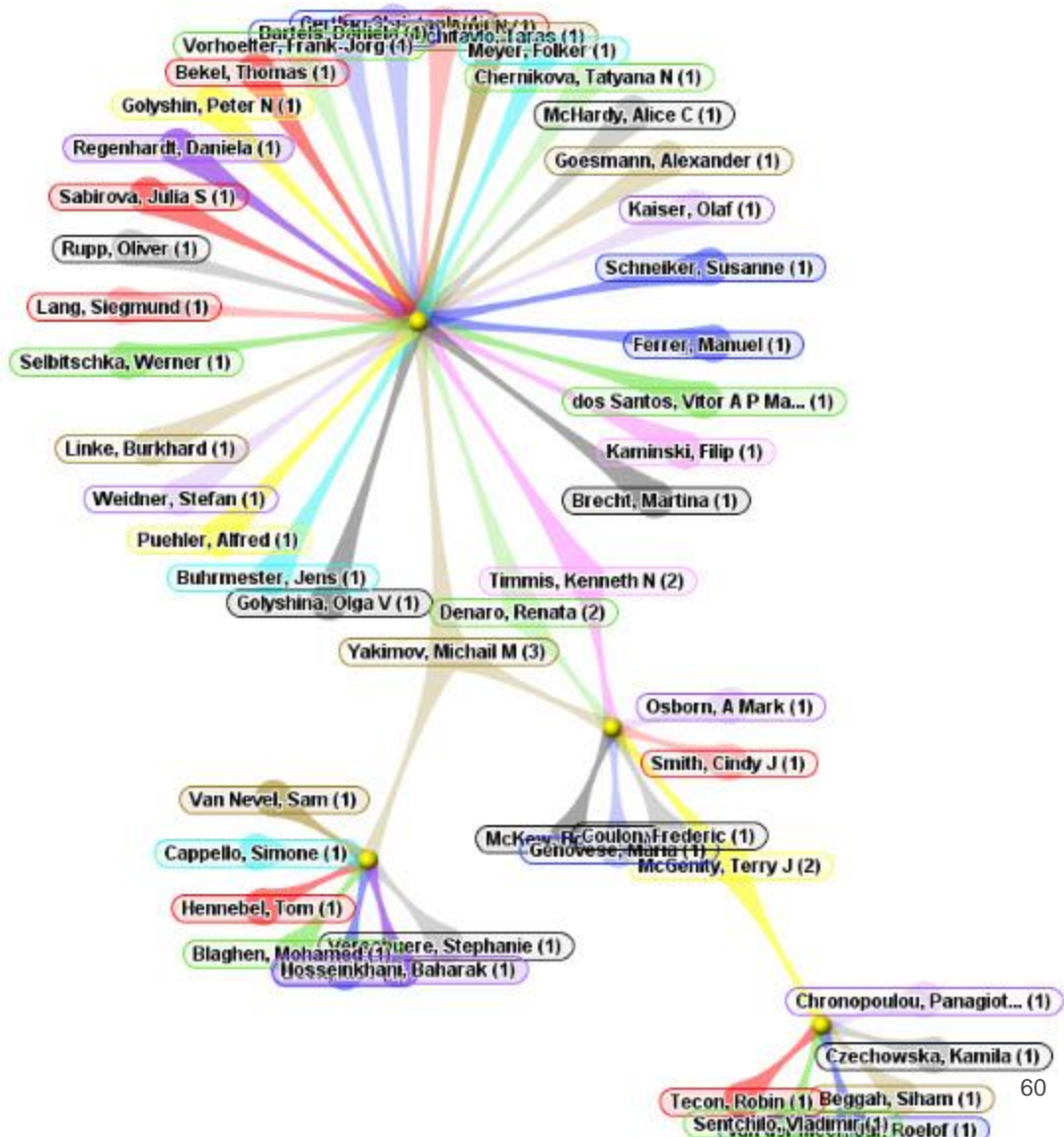
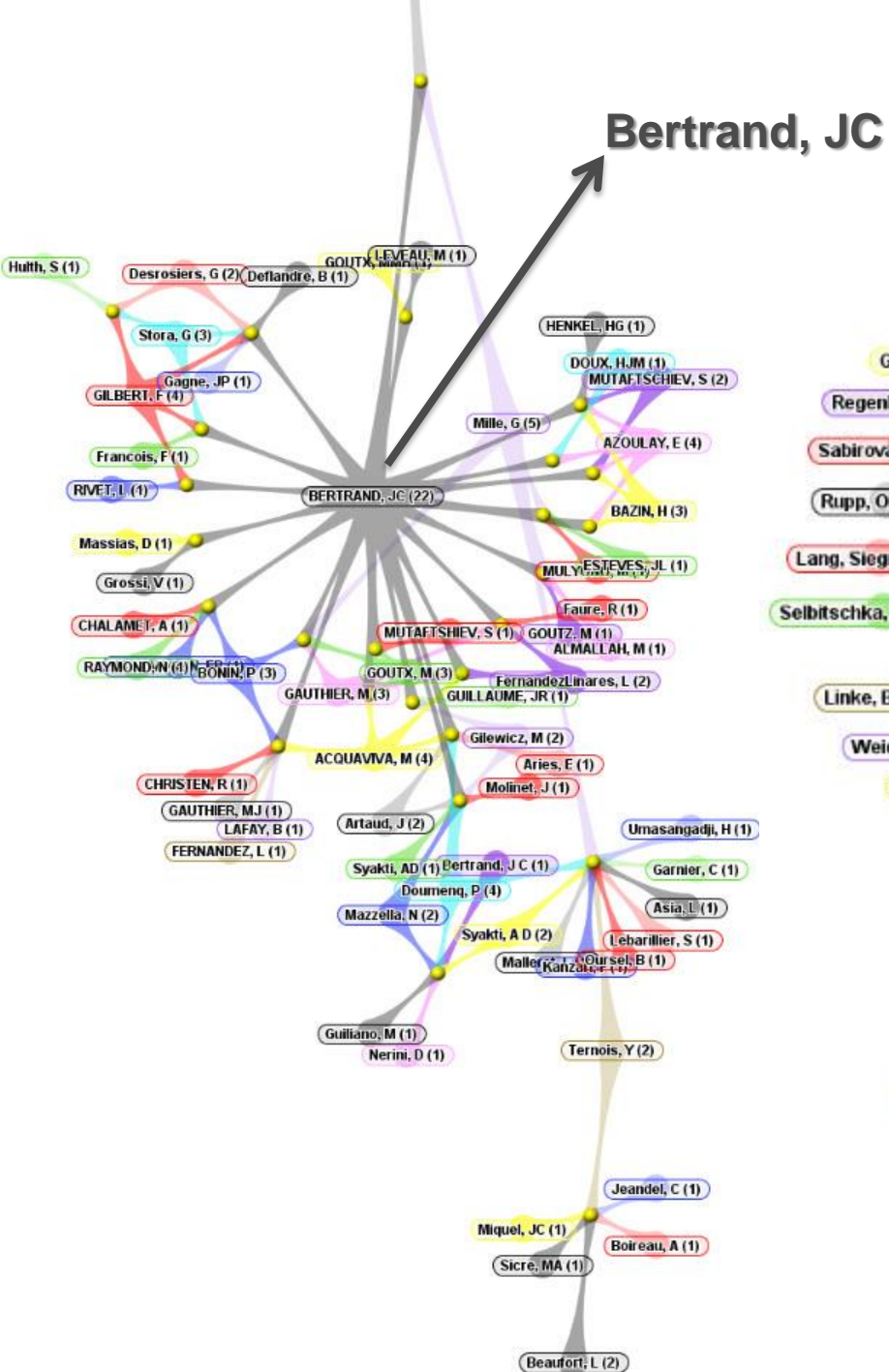
动画相关课题下主要学术带头人

	# Records	# Instances	Authors (1)	TOP20
1	19	19	Raiteri, Steve	<input checked="" type="checkbox"/>
2	16	16	Magnenat-Thalmann, Nadia	<input checked="" type="checkbox"/>
3	15	15	Thalmann, Daniel	<input checked="" type="checkbox"/>
4	13	13	Anonymous	<input type="checkbox"/>
5	12	12	Cavazza, Marc	<input checked="" type="checkbox"/>
6	10	10	Ciment, G	<input checked="" type="checkbox"/>
7	9	9	MacDorman, Karl F	<input checked="" type="checkbox"/>
8	8	8	Codelli, L	<input checked="" type="checkbox"/>
9	7	7	Charles, Fred	<input checked="" type="checkbox"/>
10	7	7	Cohn, Neil	<input checked="" type="checkbox"/>
11	7	7	Cornog, Martha	<input checked="" type="checkbox"/>
12	7	7	Gross, Markus	<input checked="" type="checkbox"/>
13	7	7	Iglesias, Andres	<input checked="" type="checkbox"/>
14	7	7	Kim, JO	<input checked="" type="checkbox"/>
15	7	7	Pan, Zhigeng	<input checked="" type="checkbox"/>
16	6	6	Barbic, Jernej	<input checked="" type="checkbox"/>
17	6	6	Bershad, Matthew A	<input checked="" type="checkbox"/>
18	6	6	Bundy, Kevin	<input checked="" type="checkbox"/>
19	6	6	Chung, CH	<input checked="" type="checkbox"/>
20	6	6	Drory, Niv	<input checked="" type="checkbox"/>



Nadia Magnenat-Thalmann
与Daniel Thalmann夫妇

某研究领域中高产出作者合作情况



研究热点

- 各国家/地区研究热点？
- 本领域有哪些研究热点？
- 研究热点随时间和空间的变迁？



动画研究领域主要国家/地区的研究主要方向

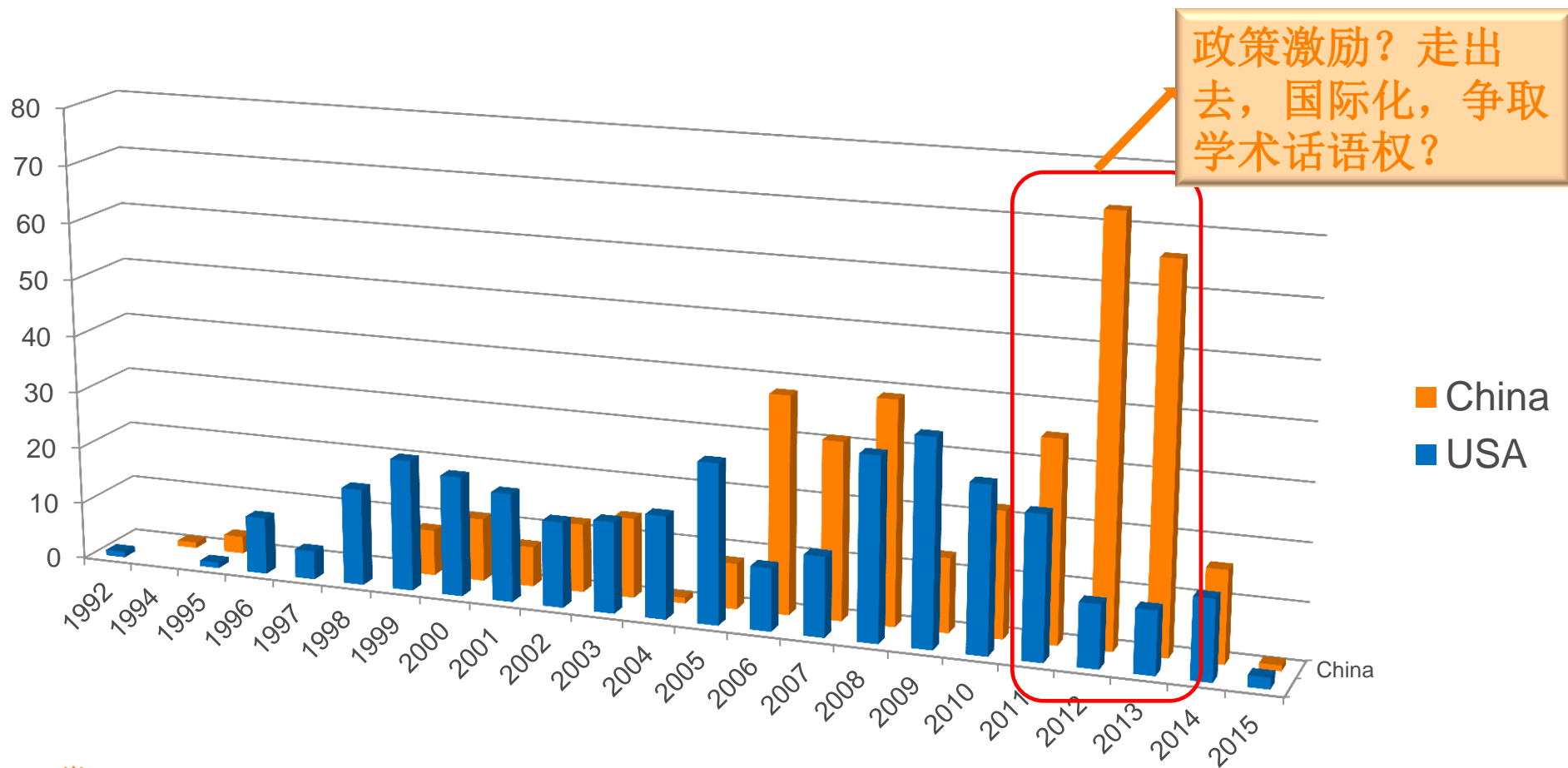
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		# Records	31	37	13	11	11	11	32	20	7	7	66	14	8	52	10	13	93	8	26	23	10	15	10	35	20		
Keywords (author's) + Keywords Plus (1)	# Records	<div><div>▼▲</div><div>Show Values >= 1 and <= 118</div><div>Cooccurrence # of Records</div><div>▼▲</div></div>	animation	virtual reality	simulation	3D Technology	model	COMPUTER GRAPHICS	deformation	fluids	galaxies: evolution	DIGITAL SKY SURVEY	Japan animation & manga	GPU	VISUAL SIMULATION	motion	Computer games	optimization	multiliteracies	SMOKE	algorithms	motion capture	Water	collision detection	real-time	reality	knowledge		
		1	1031	USA	10	11	44	34	39	41	15	5	4	5	11	5	2	19	34	3	36	1	11	6	4	5	2	13	8
		2	381	UK	36	35	9	12	13	8	2	1	4	5	9	1		7	20	1	3		6	3	2			1	4
		3	174	CANADA	20	24	5	2	9	9	3	1	3	4	4	2		3	5		15	1				1	2	2	3
		4	172	GERMANY	18	28	8	13	10	4	3	3	4	4	1	1		3	6		2			1		2	1	1	
		5	160	AUSTRALIA	11	13	5	2	7	2			3	3	8	1	2		5		18								2
		6	152	JAPAN	19	12	2	6	5	8	1	2	4	5	10	2	1	4	2	3	2	1		2					1
		7	144	CHINA	33	22	15	14	14	8	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3



动画研究领域主要国家/地区的研究主要方向

Reset		Countries (Group Names)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
		# Records	31	37	13	11	11	11	32	20	7	7	66	14	8	52	10	13	93	8	26	23	10	15	10	35	20
\$ Plus (1)		▼ ▲																									
		Show Values >= 1 and <= 118																									
USA		UK	CANADA	GERMANY		AUSTRALIA		JAPAN		CHINA																	
虚拟现实		动画	虚拟现实	虚拟现实		多元化读写能力		动画		动画																	
动画		虚拟现实	动画	动画		虚拟现实		虚拟现实		虚拟现实																	
模拟		电脑游戏	多元化读写能力	3D技术		动画		日本动画		模拟																	
计算机图形学		观众	模型	模型		教育		“恐怖谷”		3D技术																	
模型		性能/表现	教育	增强现实		读写能力		计算机图形学		模型																	
多元化读写能力		模型	计算机图形学	“恐怖谷”		日本动画		日本		计算机图形学																	
3D技术		环境	读写能力	模拟		模型		系统		变形																	
电脑游戏		3D技术	多峰性	系统		教育学		3D技术		流体																	
性能/表现		感知	观众	虚拟环境		媒体		感知		数字化																	
环境		“恐怖谷”	性能/表现	面部		电脑游戏		模型		日本动画																	

中国特色社会主义： 本领域研究产出的时间分布（中国VS美国）



TF-IDF(词频—逆文档频率)矩阵: 揭示近几年研究热点

Reset		Combined Keywords + Phrases (Cleaned)	1	2	3	4	5	6	7	8	9	10	11	12	13
		# Records	3	36	66	63	49	42	52	56	36	30	40	26	22
Publication Year	# Records	<div>▼ ▲</div> <div>Show Values >= 0.00 and <= 24.83</div> <div>TFIDF (standard)</div> <div>▼ ▲</div>	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
1	143	STATE SOCIALISM	0.00	4.98	8.77	6.68	3.64	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	141	transition	0.00	6.40	7.29	10.50	4.85	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	134	reform	0.00	4.98	10.12	8.45	8.83	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	123	Urban China	0.95	5.14	7.30	9.86	4.35	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	111	development	0.00	2.51	20.88	12.96	8.97	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	106	MARKET TRANSITION	0.48	6.86	4.03	9.59	4.85	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	99	stratification	0.00	5.73	3.04	8.34	4.85	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	94	ECONOMY	0.00	4.29	5.60	7.15	6.38	5.55	5.57	7.22	2.51	2.95	6.00	3.25	2.60
9	94	REDISTRIBUTION	0.00	4.67	3.04	4.79	4.17	1.62	1.72	6.32	4.29	2.35	4.52	3.25	2.60
10	92	STATE	0.00	7.19	3.64	8.96	8.10	1.62	6.10	6.30	4.98	3.00	8.00	5.70	2.08
11	85	Chinese socialism	0.48	2.51	3.64	3.00	1.69	1.62	2.83	4.58	4.98	1.48	0.00	0.00	1.34
12	82	Study	0.00	3.82	11.00	10.39	7.30	6.47	5.09	5.25	3.82	4.00	5.00	1.41	2.60
13	81	MARKETS	0.00	3.82	6.09	4.49	6.76	1.62	3.72	1.75	4.32	4.00	4.00	6.37	2.08
14	71	Chinese Characteristics	0.00	8.53	24.83	15.68	10.94	2.64	1.72	4.34	2.51	0.00	0.00	0.00	0.00
15	71	INEQUALITY	0.00	3.24	6.07	4.79	6.94	0.00	2.83	6.30	4.32	2.35	11.35	0.00	2.08
16	71	politics	0.00	2.51	8.05	3.97	3.64	2.64	6.68	3.81	2.51	4.38	6.75	3.25	4.33
17	67	Capitalism	0.00	4.98	15.83	9.19	7.62	10.58	4.46	3.81	0.00	2.35	4.00	1.41	2.60
18	66	Transformation	0.00	0.00	6.72	7.15	6.53	3.44	4.46	7.15	6.40	0.00	4.50	5.01	1.34
19	60	process	0.00	6.00	6.72	3.97	5.44	5.11	7.43	4.58	0.00	4.00	7.22	4.88	0.00
20	53	MARKET SOCIALISM	0.00	5.02	3.04	3.00	7.28	1.62	7.62	8.23	8.59	4.70	0.00	0.00	2.68
21	52	theory	0.00	4.77	10.08	7.18	10.94	0.00	4.24	11.58	2.51	0.00	6.32	0.00	1.34

转型、改革、发展、中国特色社会主义、资本主义是近年来较为热门



中国文献揭示的研究热点

Reset		Combined Keywords + Phrases (Cleaned)	1	2	3	4	5	6	7	8	9	10	11	12	13
		# Records	1	14	43	42	22	12	5	18	12	16	6	1	8
		▼ ▲													
		Show Values >= 0.00 and <= 17.33													
		TFIDF (standard)													
		▼ ▲													
	Publication Year	# Records	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
1	55	development	0.00	1.15	15.09	8.70	4.51								
2	42	Chinese Characteristics	0.00	4.68	17.33	11.71	2.96								
3	34	reform	0.00	2.18	5.52	6.23	2.60								
4	34	Study	0.00	2.01	5.13	4.62	2.96								
5	34	Urban China	0.00	1.69	1.63	7.39	2.08								
6	33	STATE SOCIALISM	0.00	2.18	3.47	3.44	0.00	0.00	0.00	2.33	1.81	2.18	0.95	0.00	2.98
7	29	stratification	0.00	3.38	2.66	5.45	2.68	0.00	0.00	2.33	1.08	1.81	0.78	0.00	1.20
8	26	MARKET TRANSITION	0.00	2.54	1.63	6.47	1.34	0.00	0.00	1.91	2.33	1.81	0.95	0.00	1.70
9	24	government	0.00	2.54	3.47	7.39	7.40								
10	22	problems	0.00	0.00	7.48	4.62	-2.96								
11	21	INEQUALITY	0.00	2.01	4.90	2.64	4.33								
12	21	REDISTRIBUTION	0.00	2.01	1.63	3.44	0.00								
13	21	transition	0.00	2.72	3.47	4.58	1.34								
14	20	country	0.00	0.00	7.10	2.64	2.96								
15	20	STATE	0.00	2.18	0.00	5.11	4.33	0.00	0.00	1.26	1.56	1.20	1.56	0.00	0.90
16	19	SYSTEM	0.00	1.15	3.47	5.45	2.08	0.00	0.00	1.26	1.08	1.81	0.00	0.00	0.00
17	19	theory	0.00	2.68	7.10	6.13	4.44	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
18	18	process	0.00	2.68	2.66	2.64	2.08	1.81	0.00	1.26	0.00	2.91	2.39	0.00	0.00
19	18	society	0.00	2.54	6.19	4.08	0.00	1.56	0.00	1.26	0.00	1.20	0.00	0.00	0.90
20	17	analysis	0.00	0.00	4.13	3.44	2.96	0.00	0.70	1.26	0.00	1.81	0.78	0.00	0.00
21	17	ECONOMY	0.00	2.01	1.63	4.58	0.00	1.08	0.00	1.26	0.00	2.41	2.33	0.00	0.90

中国特色社会主义的比重较高 (42/71)

政府、问题、理论近年来较为热门

关键词词簇的潜在联系分析-主成分地图（中国）

Factor Map

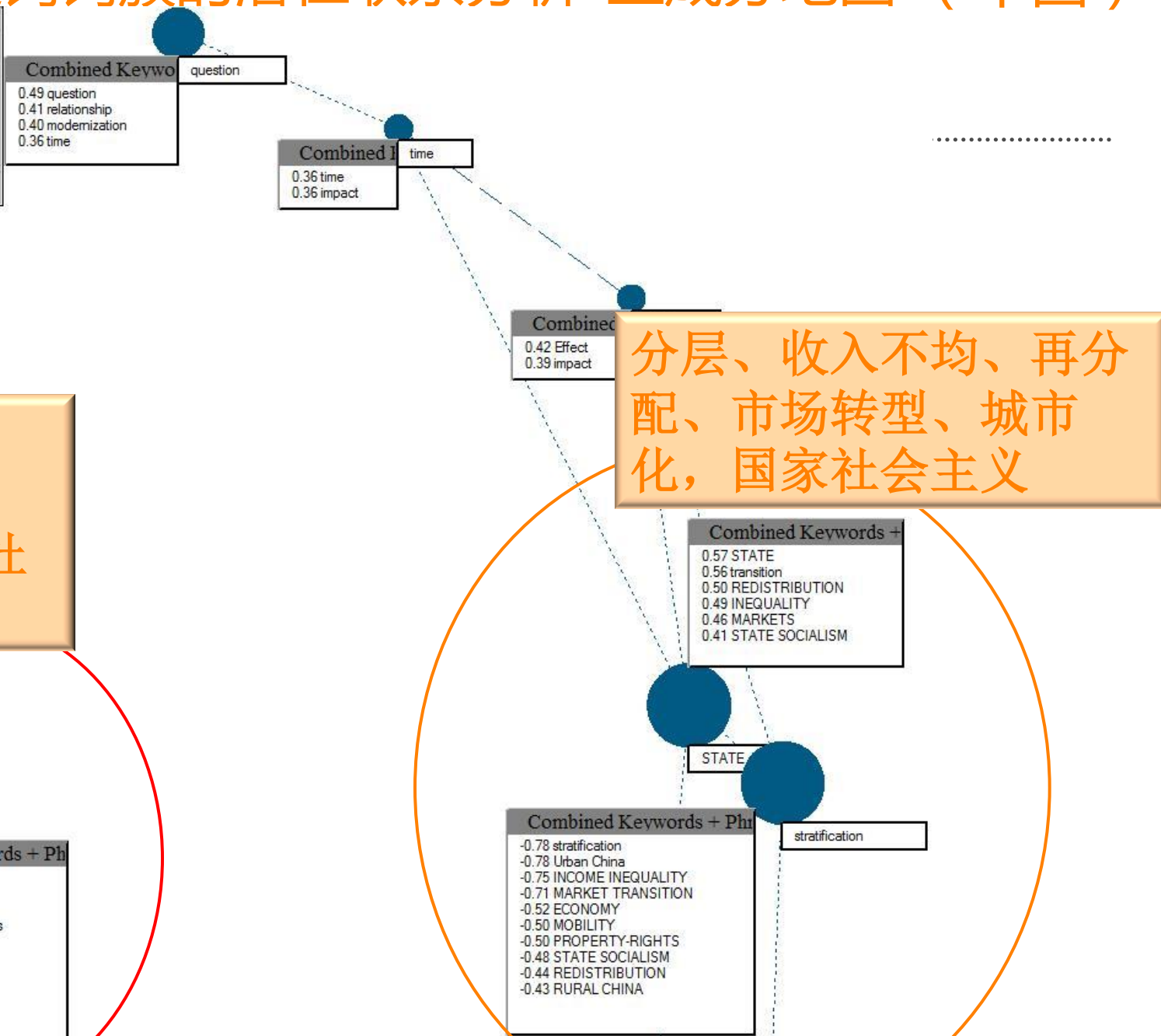
Combined Keywords + Ph

Factors: 7

% Coverage 91% (208)

Top links shown

> 0.75	0 (0)
0.50 - 0.75	0 (0)
0.25 - 0.50	0 (0)
< 0.25	8 (35)



methods

Combined Keywords + Ph

0.56 methods
0.52 practice
0.50 theory
0.41 Chinese Characteristics
0.38 basis
0.30 College Students
0.29 globalization
0.25 form
0.25 question

STATE

stratification

Combined Keywords + Ph

-0.78 stratification
-0.78 Urban China
-0.75 INCOME INEQUALITY
-0.71 MARKET TRANSITION
-0.52 ECONOMY
-0.50 MOBILITY
-0.50 PROPERTY-RIGHTS
-0.48 STATE SOCIALISM
-0.44 REDISTRIBUTION
-0.43 RURAL CHINA

Combined K

-0.40 innovation
-0.38 cities
-0.37 Study
-0.32 development
-0.29 country

发展, 创新

Combined Key

-0.51 analysis
-0.50 problems
-0.45 society
-0.36 country

analysis

innovation

Combined Keyword

0.55 market economy
0.48 function
0.48 process
0.42 reform
0.34 government
0.32 MARKETS
0.32 globalization
0.31 form
0.28 MANAGEMENT
0.27 cities

Com

-0.51 PE
-0.48 pol
-0.43 Tra
-0.35 PO

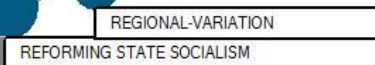
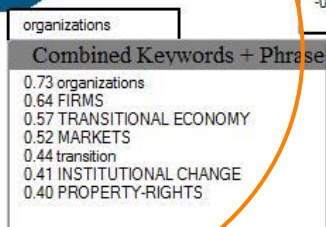
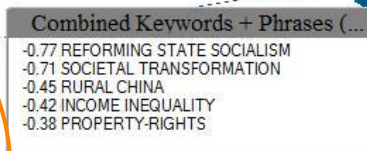
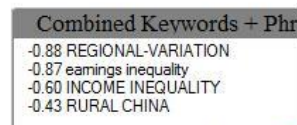
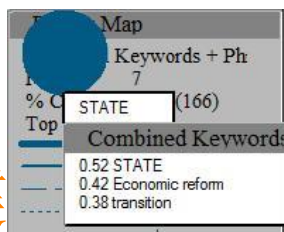
市场经济,
功能, 过
程, 改革

market economy



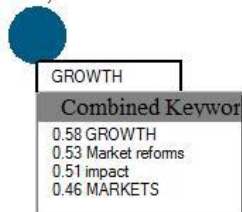
关键

国)



组织，公
司，体制变
化，转型

分层，城市化，
不均，市场转
型，再分配



一键生成报告

Summary Information

Year Chart

Country Chart

Technology Chart

Country v Year Chart

Technology v Year Chart

Technology v Country Chart

People Profile

Technology Profile

Time Profile

Collaborator Profile

Country Profile

Recent People

Recent Technologies

People Trend

Technology Trend

图表

- 时间趋势图
- 国家分布图
- 各国家核心技术布局图

表单

- 个人相关表单
- 技术相关表单

近3年发展信息

发展趋势图

 THOMSON REUTERS

THOMSON DATA ANALYZER
Company Report

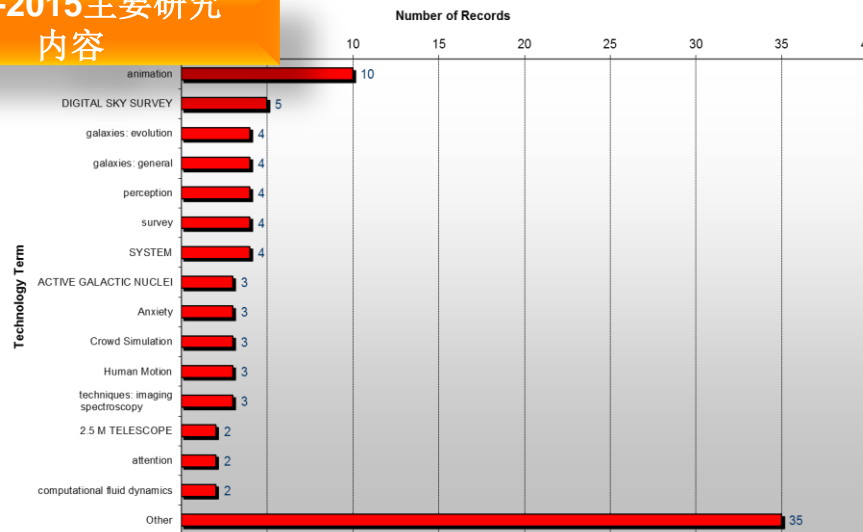
Company Name:	Univ Tokyo
Number of Records:	36
Range of Years:	1990 - 2015
Peak Year:	2015 [8 Records]
Date of report creation:	2015/11/20

thomsonreuters.com/thomson-data-analyzer

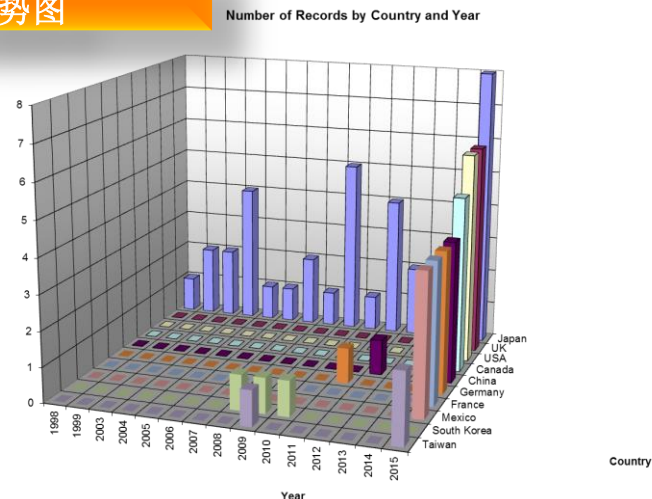


一键生成报告（某高校动画相关课题的研究报告）

1990-2015主要研究内容



与各国/地区合作发表 论文趋势图



该校主要研究学者及其 研究核心内容等

Number of Record	Top-25 People	Top Collaborators	Top Country	Range of Years & Average Records per Year	Percentage of Records in Last-3 Year	Top Technology Terms
4	Bundy, Kevin	Cherinka, Brian [4]; Drory, Niv [4]; Weijmans, Anne-Marie [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
4	Cherinka, Brian	Bundy, Kevin [4]; Drory, Niv [4]; Weijmans, Anne-Marie [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
4	Drory, Niv	Bundy, Kevin [4]; Cherinka, Brian [4]; Weijmans, Anne-Marie [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
4	Weijmans, Anne-Marie	Bundy, Kevin [4]; Cherinka, Brian [4]; Drory, Niv [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
4	Yan, Renbin	Bundy, Kevin [4]; Cherinka, Brian [4]; Drory, Niv [4]; Weijmans, Anne-Marie [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
4	Zhang, Kai	Bundy, Kevin [4]; Cherinka, Brian [4]; Drory, Niv [4]; Weijmans, Anne-Marie [4]; Yan, Renbin [4]; Zhang, Kai [4]	Japan [4]; UK [4]; USA [4]; Canada [4]	2015 - 2015 (4 per year)	100% of 4	DIGITAL SKY SURVEY [3]; galaxies: evolution [3]; galaxies: general [3]; survey [3]
3	Bershad, Matthew A	Bundy, Kevin [3]; Cherinka, Brian [3]; Drory, Niv [3]; Weijmans, Anne-Marie [3]; Yan, Renbin [3];	Japan [3]; UK [3]; USA [3]; Canada [3];	2015 - 2015 (3 per year)	100% of 3	survey [3]; DIGITAL SKY SURVEY [2]; galaxies: evolution [2]; galaxies: general [2]; OSCILLATION SPECTROSCOPIC SURVEY [2]; techniques: imaging spectroscopy [2];



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一键生成报告（某高校动画相关课题的研究报告）

Technology Trends in Last 3 Years

Last 3 Years is: 2015 - 2013

Terms First Used in Last 3 Years

DIGITAL SKY SURVEY [5]
galaxies: evolution [4]
galaxies: general [4]
survey [4]
techniques: imaging spectroscopy [3]
ACTIVE GALACTIC NUCLEI [3]
galaxies: stellar content [2]
methods: observational [2]
STELLAR POPULATION GRADIENTS [2]
INITIAL MASS FUNCTION [2]
OSCILLATION SPECTROSCOPIC SURVEY [2]
2.5 M TELESCOPE [2]
SAURON PROJECT [2]
Japan animation & manga [2]
STAR-FORMING GALAXIES [2]
MENTAL-HEALTH [2]
METAANALYSIS [2]
galaxies: formation [2]
DISORDERS [1]
CLASSIFICATION [1]
galaxies: ISM [1]
COLOR-MAGNITUDE DIAGRAM [1]
DISTRIBUTED ELECTRON ENERGIES [1]
dot-probe [1]
faces [1]
DYSFUNCTIONAL ATTITUDE SCALE [1]
EARLY DATA RELEASE [1]
EARLY-TYPE GALAXIES [1]
facial expressions [1]
ELEMENT ABUNDANCE RATIOS [1]
ELLIPTIC GALAXIES [1]
familiarity [1]
galaxies: structure [1]
FUTURE [1]

Terms Not Used in Last 3 Years

perception [4]
Human Motion [3]
Crowd Simulation [3]
interpolation [2]
human-computer interaction [2]
gaze [2]
dynamics [2]
direction [2]
computational fluid dynamics [2]
markup languages [2]
mother [1]
motion [1]
multiple scattering [1]
muscle-based model [1]
natural phenomena [1]
NUMERICAL EXPERIMENT [1]
numerical simulation [1]
aerodynamic sound [1]
affective communication [1]
agent modeling [1]
AMBULATORY SURGERY [1]
OWN-RACE [1]
PARAPLEGICS [1]
anthropogenic heat [1]
PREANESTHETIC INFORMATION [1]
preferential-looking [1]
Anthropomorphism [1]
ARMOR [1]
Artificial, augmented, and virtual realities [1]
AUGMENTED REALITY VISUALIZATION [1]
quality of life [1]
quasi-Newton solver [1]
behavior [1]
RADIANCE TRANSFER [1]

Unexpectedly high/low terms

DIGITAL SKY SURVEY [.993]
galaxies: evolution [.982]
galaxies: general [.982]
survey [.982]
ACTIVE GALACTIC NUCLEI [.956]
techniques: imaging spectroscopy [.956]



利用Thomson Data Analyzer发表的SCI论文

青蒿素

Knowledge map of artemisinin research in SCI and Medline database

作者: Yao, Q (Yao, Qiang)^[1]; Chen, J (Chen, Jing)^[2,3]; Lyu, PH (Lyu, Peng-Hui)^[4,5]; Zhang, SJ (Zhang, Shi-Jing)^[1]; Ma, FC (Ma, Fei-Cheng)^[4]; Fang, JG (Fang, Jian-Guo)^[2]
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JOURNAL OF VECTOR BORNE DISEASES
卷: 49 期: 4 页: 205-216
出版年: DEC 2012
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摘要

Background & objectives: Artemisinin was first extracted from the herb *Artemisia annua* which has been used for many centuries in Chinese traditional medicine as a treatment for fever and malaria. It has been given the 2011 Lasker-DeBakey clinical medical research award. In this paper, knowledge map of artemisinin research was drawn to provide some information for global researchers interested in artemisinin and its relevant references.

Methods: In this work, **bibliometric** analysis and knowledge visualization technology were applied to evaluate global scientific production and developing trend of artemisinin research through Science Citation Index (SCI) papers and Medline papers with online version published as following aspects: publication outputs, subject categories, journals, countries, international collaboration, citations, authorship and co-authorship, author key words and co-words analysis. The **Thomson Data Analyzer (TDA)**, Netdraw and Aureka software were employed to analyze the SCI as well as Medline papers **data** for knowledge mapping.

Results: Global literature of artemisinin research has increased rapidly over the past 30 years and has boosted in recent years. Seen from the statistical study in many aspects. Pharmacology & Pharmacy, and Chemistry are still the main subjects of artemisinin research with parasitology and tropical medicine increasing quickly. Malaria Journal and American Journal of Tropical Medicine are top productive journals both in SCI and Medline databases. Quantity and quality of papers in US are in a leading position, although papers quantity and active degree in developing countries such as P.R. China, Thailand and India are relatively high, the quality of papers from these countries needs to be improved. New emerging key words and co-words remind us that mechanism of action, pharmacokinetics, artemisinin-based alternatives, etc. are the future trends of artemisinin research.

Conclusion: Through **bibliometric** analysis the development trends of artemisinin research are predicted. With further development of artemisinin research, it is presumed that scientists might concentrate mainly on the synthesis of new compounds with activity, action mechanism, new artemisinin-based combination therapy regimens, etc.

关键词

作者关键词: Artemisinin; **bibliometric** analysis; co-authorship; co-words; knowledge mapping; research trend

KeyWords Plus: ENDOPEROXIDE ANTIMALARIAL; MALARIA; DRUG; QINGHAOSU; SCIENCE; DERIVATIVES; DESIGN

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[5] Hubei Acad Sci & Tech Informat, Emanu Ctr, Wuhan, Peoples R China

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Yao, Qiang. Current performance and future trends in health care sciences and services research. SCIENTOMETRICS, OCT 2014.

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《传染病媒介疾病杂志》

2014影响因子

0.806

华中科技大学

大纲

- 情报分析简介
- TDA是什么？
- TDA能做什么？
- TDA6.0还有什么？
- 问题与解答



大数据时代的 TDA 64位版

版本介绍

- Thomson Data Analyzer 6提供两个版本供您选择：
32 bit 版和 64 bit版
- 如果您想选择64位版，您的电脑必须选择64位的操作系统 (operating system)
- 同时，为保证Aduna图的正常运行，您需要安装64位的Java，因此，您需要更新为64位的JAVA



64-BIT TDA: 大数据处理能力增强

- TDA数据处理能力限制
 - 对于32-bit, 微软Windows系统限制任何应用超过内存的容量2G
 - 如果结果 > 2GB , Windows将停止该程序(所有程序,不仅仅是TDA)
 - 60.000条数据的文件很可能超过 2GB (取决于数据的字段输出数量和大小)
- 64位TDA的优化包括
 - 更好的分析 Derwent Patent Citation Index (DPCI)数据(DPCI数据的输出不可避免的会增加数据的大小)
 - 整体专利组合分析
 - 国别分析
 - 技术领域分析



TDA 中文版

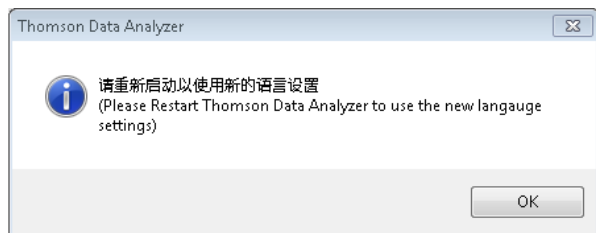
The new Chinese Interface

中英文界面转换

1. 选择Tools → Languages → 选择

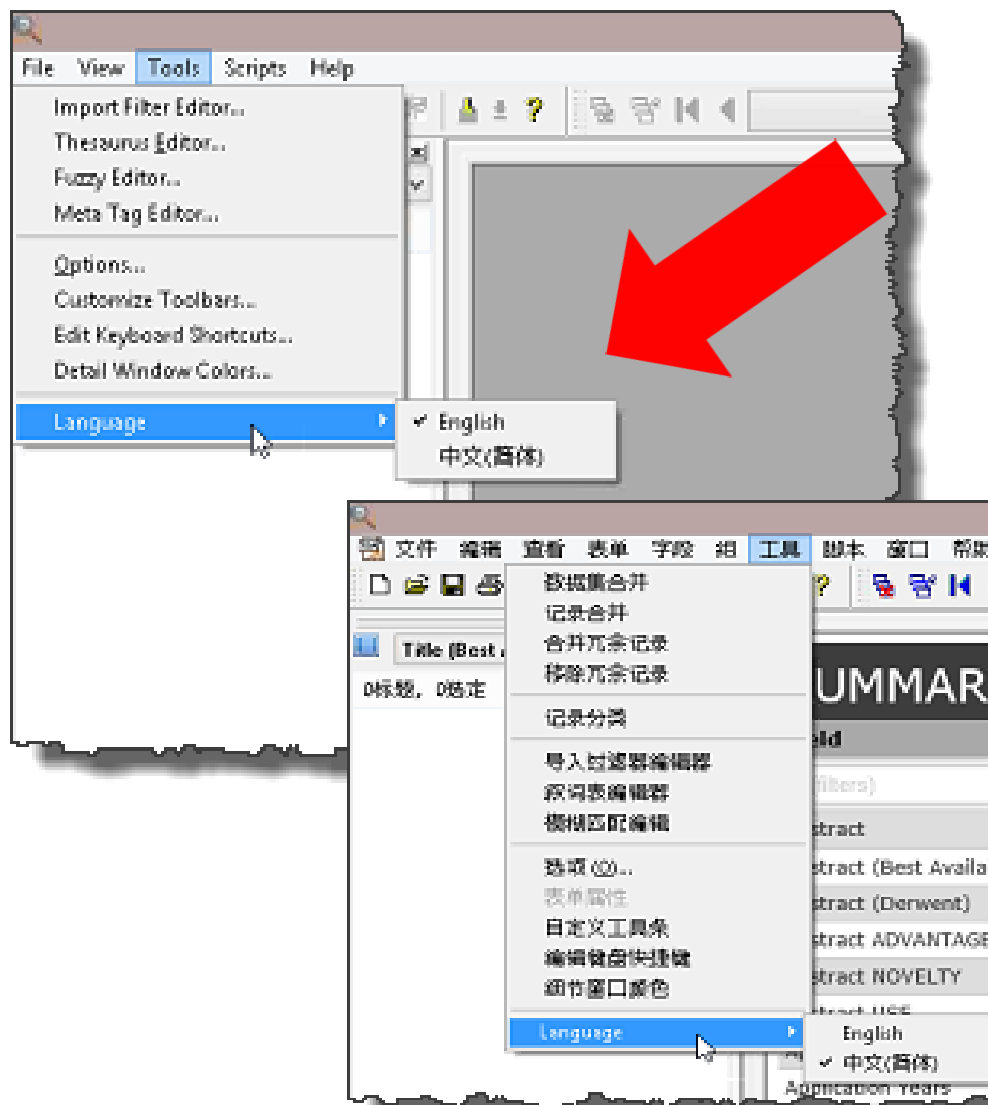


2. 出现如下对话框:



3. 退出 TDA.

4. 重启 TDA.



TDA-CN:

Thomson Data Analyzer - [TI Patents - Toothpaste - Demo.vpt]

文件(F) 编辑(E) 查看(V) 表单 字段 组 工具 脚本 窗口 帮助(H)

33个标题, 0个选定

A multi-sensor approach for t...
A single complementary-sens...
Application of satellite remote...
Application of satellite remote...
Detecting Karenia brevis bloo...
Detecting man-made structur...
Detection and analysis of stro...
Detection of red attack stage ...

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重命名字段
复制字段
删除字段
合并字段

由组中项创建字段
由组名创建字段

词表
查找与替换

列表清理
恢复已保存的列表清理

创建记录标识字段 Ctrl+K

萃取邻近词组
深度处理

记录数量	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
33	23	21	20	20	19	17	16	16	16	15	15	15	15	15	14	14	14	14	13	12	11

ix:Patent Assignees (Cleaned - No Individ...

Application Countries

16	14	3	0
US	WO	EP	JP

Matrix:Patent Assignees (Cleaned)

TI Patents - ... TI WoS - S...

选择数据库和字段

Thomson Innovation - Patents (TDA format)

Abstract (Derwent) (NLP) (Phrases)
Abstract (Derwent) (NLP) (Words)
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Abstract ACTIVITY
Abstract ACTIVITY (Terms)
Abstract ADVANTAGE (NLP) (Phrases)
Abstract ADVANTAGE (NLP) (Words)
Abstract DESCRIPTION
Abstract DESCRIPTION (NLP) (Phrases)
Abstract DESCRIPTION (NLP) (Words)
Abstract DESCRIPTION OF DRAWINGS
Abstract DESCRIPTION OF DRAWINGS (NLP) (Phrases)
Abstract DESCRIPTION OF DRAWINGS (NLP) (Words)
Abstract DETAILED DESCRIPTION
Abstract DETAILED DESCRIPTION (NLP) (Phrases)
Abstract DETAILED DESCRIPTION (NLP) (Words)
Abstract MECHANISM OF ACTION
Abstract MECHANISM OF ACTION (NLP) (Phrases)
Abstract MECHANISM OF ACTION (NLP) (Words)

改变数据集属性

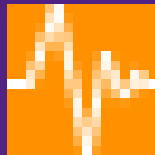
☐ 从可编辑记事本中导入

☐ 从现有字段中导入

☒ 显示全部字段

确定 取消

PATENT VITAL SIGNS



How healthy are your patents?

PATENT VITAL SIGNS – THE BASICS

- 专利的法律状态数据比较复杂，之前版本中简单的 “Dead or Alive” 不足以支撑客户的分析需求
- Vital Signs用颜色代码去标记专利的 “健康” 程度
- 如何做到的？
 - 分割并筛选出kind code
 - 查找 INPADOC 法律状态信息
 - 正面(+)或负面 (-)?
 - 法律事件发生的时间点? (授权时间点，申请日时间点)
 - 准确计算剩余生命周期
 - 授权: 优先权年 + 20
 - 申请: 公开年 + 10



BEST PRACTICE – DATA EXPORT



- Patent Vital Signs处理原文数据(一次文献– FLD)
 - 评估单篇专利的健康状况
- 最佳方式:
 - 检索一次文献 (专利原文)
 - 扩展到全部 INPADOC同族成员
- 不适用于Derwent World Patents Index (DWPI)记录 , 因为DWPI是 “一个记录一个专利同族”
 - 对于每个记录 , 也无法给出准确的法律效力的指示

Why? This grabs all docs related to the family, then gets rid of any apps that have a corresponding grant.



如果得到PATENT VITAL SIGNS的结果



- 从菜单条中选择:



- 从总览表中选择:

SUMMARY SHEET					Number of Records: 948		Columns
Field	Number of Items	% Coverage	Data Type	Meta Tags			
(filters)	Try >=500						
Abstract	3,119	100%					
Abstract (Best Available)	944	99%					
Abstract (Derwent)	944	99%					
Abstract ADVANTAGE	832	88%					
Abstract NOVELTY	944	99%					
Abstract USE	848	93%					
Application Countries	36	100%		Country			
Application Years	25	100%	Year				
Basic Patent	948	100%		Parent			
Date	588	100%		Date, Child			
Kind Code	5	100%		Child			
Number	948	100%		Child			
Basic Patent Country	10	100%		Country			

Patent Vital Signs	3,989	100%	Parent
Number	3,989	100%	Child
Kind Code	8	100%	Child
Date	1,413	100%	Child, Date
Derwent Accession Number	1,977	99%	Child
Legal Status (most recent +/-)	2	41%	Child
Legal Status (year of most recent +/-)	16	41%	Child
Years Remaining (Earliest Priority Year + 20 - 2014)	25	25%	Number Child
Years Remaining (Publication Year + 10 - 2014)	20	73%	Number Child



PATENT VITAL SIGNS:颜色含义



Grant - probably active with positive (+) LLS
Grant - probably active no +/- LLS
Grant - probably active with negative (-) LLS
Grant - probably expired (20 years)
App - probably active with positive (+) LLS
App - probably active no +/- LLS
App - probably active with negative (-) LLS
App - probably expired (10 years)

- 绿色: 极大可能是正向的结果. 可以认为是“及其可能是健康”
- 蓝色: 可能是健康, 因为专利还未到期
- 橙色/黄色: 需要进一步核实, 既然存在负面的法律状态信息
- 红色: 极可能到期

Patent Vital Signs 一维表单



可排序

	# Records	# Instances	Publication Number (long)							APPLICATIONS	GRANTS	UTILITIES	Grant - probably active with positive	Grant - probably active with negative	Grant - probably expired (20 years)	App - probably active with positive	App - probably active with negative	App - probably expired (10 years)
			Number	Kind Code	Date	Derwent Accession Number	Legal Status (most recent +/-)	Legal Status (year of most recent)	Years Remaining (Earliest Priority)									
5097	1	1	EP1958627A2	A2	2008-08-20	2008-L47093	-	2014	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5098	1	1	EP1958627A3	A3	2010-09-01	2008-L47093	-	2014	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5099	1	1	WO2007122146A1	A1	2007-11-01	2008-L50489	+	2008	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5100	1	1	EP2010292A1	A1	2009-01-07	2008-L50489	-	2013	5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5107	1	1	ZA200904835A	A	2012-09-26	2008-L68069			8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5122	1	1	JP200904479P1	P1	2010-04-09	2008-L68069			6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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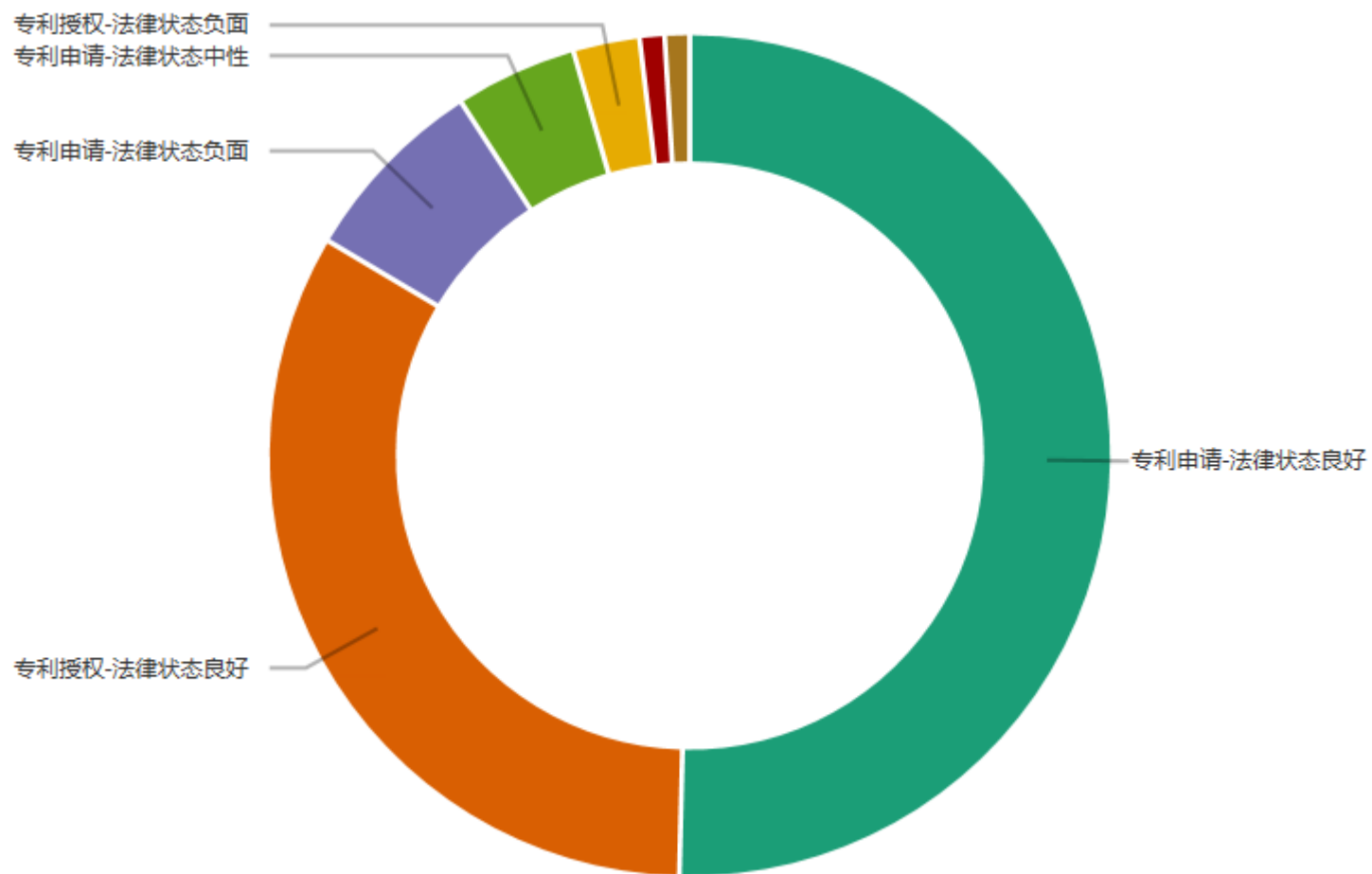
Patent Vital Signs 二维表格



Reset		Patent Assignees (long)	1	2	3	4	5	6	7	8
		# Records	1217	505	930	1753	666	308	911	248
Publication Number (long)	# Records	▼ ▲								
		Show Values >= 1 and <= 609								
		Cooccurrence # of Records								
		▼ ▲								
			App - probably active no +/- LLS	App - probably active with negative (-)	App - probably active with positive (+)	App - probably expired (10 years)	Grant - probably active no +/- LLS	Grant - probably active with negative (-)	Grant - probably active with positive (+)	Grant - probably expired (20 years)
1	2044	COLGATE PALMOLIVE CO (COLG)	609	88	431	222	275	47	226	58
2	1146	PROCTER & GAMBLE CO (PROC)	154	136	121	347	102	70	137	64
3	877	PROCTER&GAMBLE CO (PROC)	163	136	131	183	86	42	96	27
4	713	UNILEVER NV (UNIL)	113	49	62	249	69	31	69	54
5	678	UNILEVER PLC (UNIL)	113	50	62	231	69	31	68	37
6	451	HINDUSTAN LEVER LTD (UNIL)	67	31	30	169	61	28	53	
7	353	HENKEL KGAA (HENK)	12	41	16	183	18	27	44	11
8	351	LION CORP (LIOY)	61	28	45	124	4	2	73	4
9	309	HUBER CORP J M (HUBE)	72	48	32	61	30	21	35	
10	292	KAO CORP (KAOS)	21	13	70	70	13	9	84	8
11	272	L'OREAL SA (OREA)	20	6	13	108	27	24	39	29
12	270	PRENCIPE M (PREN-I)	89	16	55	19	43	3	32	
13	214	MASTERS J G (MAST-I)	56	7	37	23	47	5	32	
14	205	SYMRISE GMBH&CO KG (SYMR)	30	27	26	52	24	9	33	
15	198	UNILEVER HOME & PERSONAL CARE US	23	5	6	99	30	14	20	
16	179	NOVO-NORDISK AS (NOVO)	7	1	5	89	14	28	34	
17	178	NOVOZYMES AS (NOVO)	6	3	9	84	13	27	35	
18	176	TAKASAGO PERFUMERY CO LTD (TAKS)	24	11	18	53	17	10	36	5
19	163	CONOPCO INC DBA UNILEVER (UNIL)	58	8	47	3	19	4	18	
20	156	ROBINSON R S (ROBI-I)	62	9	38		18	2	19	



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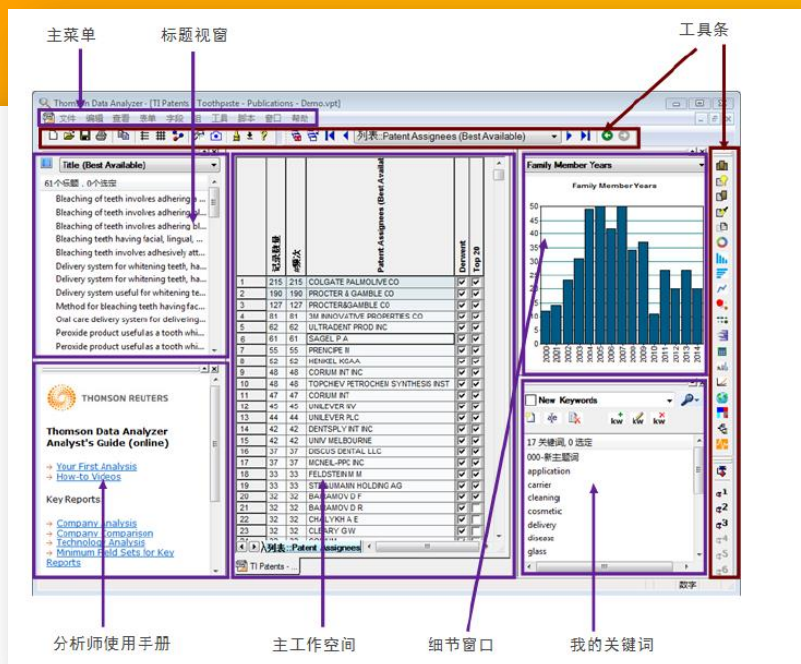
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非常感谢

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