讲座签到

深度挖掘知识-Citespace助你一臂之力

四川大学图书馆知识服务中心
胡静
hu.jing@scu.edu.cn
85404109

背景知识

使用技巧

实例分析

海量数据

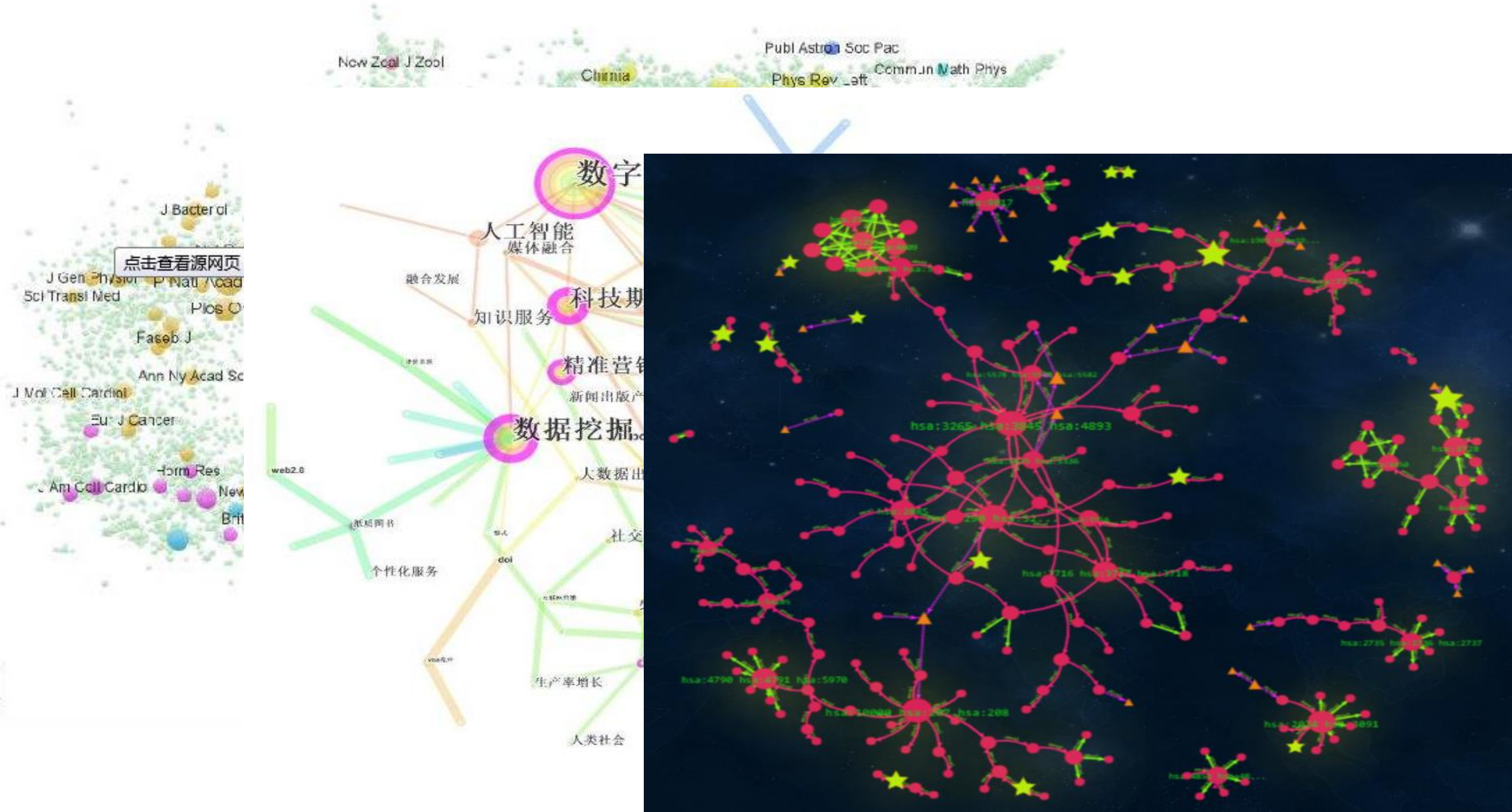
如何能够快速抽取有效信息，掌握研　　究现状，找到课题研究热点与前沿？

科学知识图谱了解一下！

应用数学、图形学、信息可视化技术、信息科学、计量学

绘制可视化图谱，展示学科知识结构和发展脉络。

工具：CiteSpace、Vosviewer、Pajek、Ucinet、Gephi等


New Zeal J Zool
Chemia
Publ Astron Soc Pac
Commun Math Phys
Phys Rev Lett
J Bacteriol
点击查看源网页
Sci Transl Med
Plos One
Faseb J
Ann Ny Acad Sci
J Mol Cell Cardiol
Eur J Cancer
Horm Res
Am Coll Cardiol
数字
人工智能
媒体融合
融合发展
知识服务
科技期
精准营销
新闻出版产
数据挖掘
大数据出
web2.0
社交
doi
个性化服务
生产率增长
人类社会
hsa:3265
hsa:4893
hsa:4790
hsa:5970
hsa:208
hsa:2737

Citespace是什么？

Java语言编写的可视化文献分析软件

引文可视化分析软件

科学知识的结构、规律和分布情况

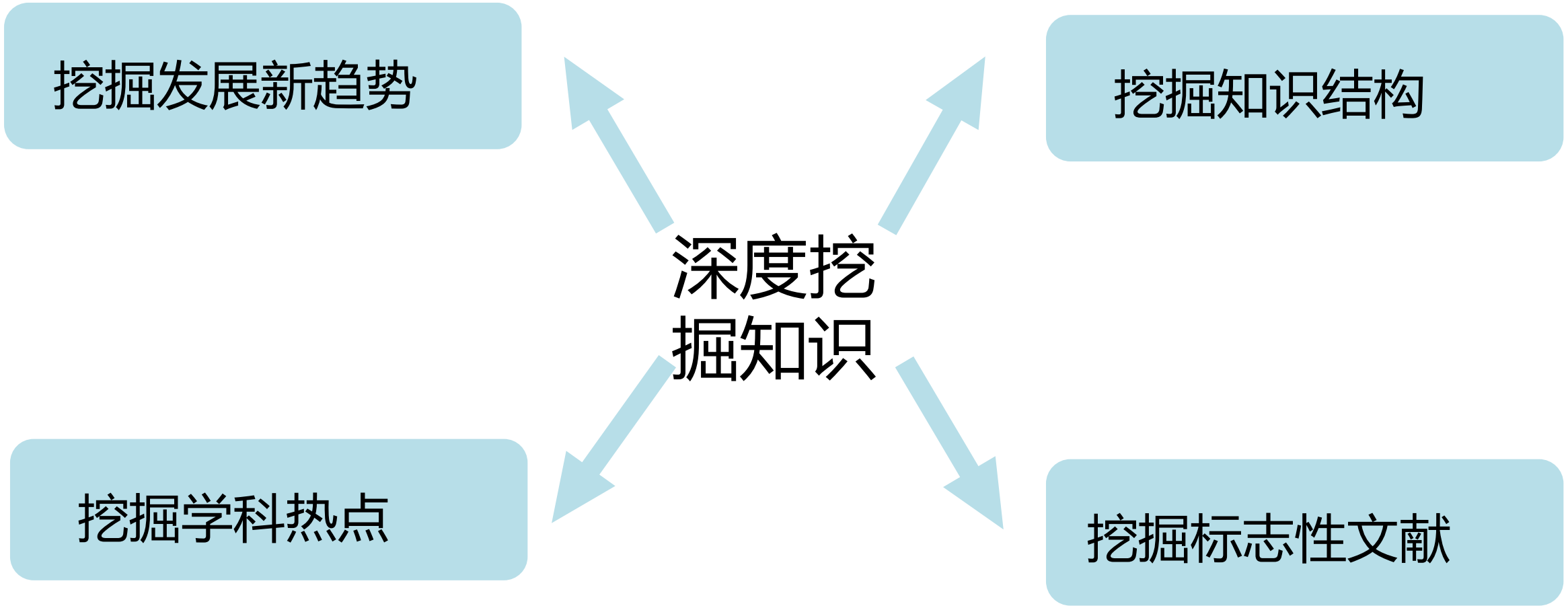
科学知识图谱　　定量分析工具

美国德雷塞尔大学**陈超美**教授开发的一款软件

软件作者简介：陈超美，博士，美国德雷塞尔大学（Drexel University, Philadelphia, PA, USA）信息科学与技术学院教授(终身教职)。大连理工大学长江学者讲座教授，Drexel-DLUT知识可视化与科学发现联合研究所美方所长。

博客：http://blog.sciencenet.cn/u/ChaomeiChen

Citespace可以用来做什么？



Citespace如何下载安装?

确保安装JAVA的情况下

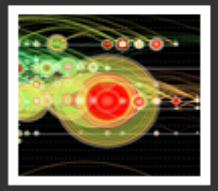
http://cluster.cis.drexel.edu/~cchen/citespace/download/

CiteSpace: Visualizing Patterns and Trends in Scientific Literature

Chaomei Chen

Download Now

Home / Browse / Graphics / Graphics / Presentation / CiteSpace



CiteSpace

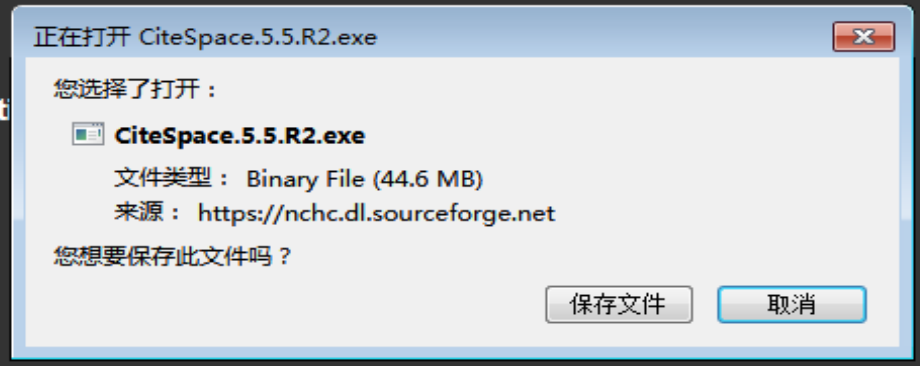
A widely used tool for visual exploration of scient

Brought to you by: citespace

Your download will start shortly... 0

Get Updates | Share This | Problems Downloading?

CiteSpace.5.5.R2.exe | Scanned by: Bitdefender



Other Useful Business Software

Rufus 是一个可以帮助格式化和创建可引导USB闪存盘的工具，比如 USB 随身碟，记忆棒等等。

轻松创建USB启动盘

在如下场景中会非常有用：

- 你需要把一些可引导的ISO格式的镜像（Windows，Linux，UEFI等）创建成USB安装盘的时候
- 你需要使用一个还没有安装操作系统的设备的时候

Learn More

D:\装机必备\CiteSpace.5.5.R2.exe

```
CiteSpace(515): C:\Users\hj\.citespace\resources\wsj3t0-18-left3words\train-wsj-
0-18.holder (系统找不到指定的路径。)
```

CiteSpace: Welcome!

CiteSpace

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Chen C, Song M (2019) Visualizing a field of research: A methodology of systematic scientometric reviews. PLoS ONE 14(10):e0223994
eBook: Heow to Use CiteSpace (Updated: Auguest 13, 2019)
Video: CiteSpace: Creating Visualizations with Scopus (RIS) Data

System Information (Require JRE 1.8 or higher)

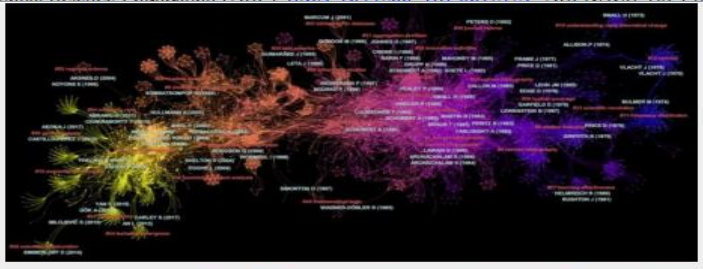
CiteSpace 5.5.R2 (64-bit)	Windows 7 (CN/zh)	Java 1.8.0_144-b01 (64-bit)
Built: August 22, 2019	Processors: 4	Java HotSpot(TM) 64-Bit Server VM
Expire: March 31, 2020	Host: hj-PC 202.115.61.86	Java Home: C:\Program Files\Java\jre1.8.0_144

Key Publications

1. Chen, C. (2017) Science mapping: A systematic review of the literature. JDIS, 2(2), 1-40.
2. Chen, C. (2016) CiteSpace: A Practical Guide for Mapping Scientific Literature. Nova Science Publishers.
3. Chen, C. (2015) How to Use CiteSpace. Leanpub.
4. Chen, C. et al. (2010) The structure and dynamics of co-citation clusters: A multiple-perspective co-citation analysis. JASIST, 61(7), 1386-1409.
5. Chen, C. (2006) CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature. JASIST, 57(3), 359-377.
6. Chen, C. (2004) Searching for intellectual turning points: Progressive Knowledge Domain Visualization. Proc. Nat. Acad. Sci., 101(Suppl.), 5303-5310.
7. Other Resources: ResearchGate • CiteSpace101 • Facebook • Twitter • 科学网

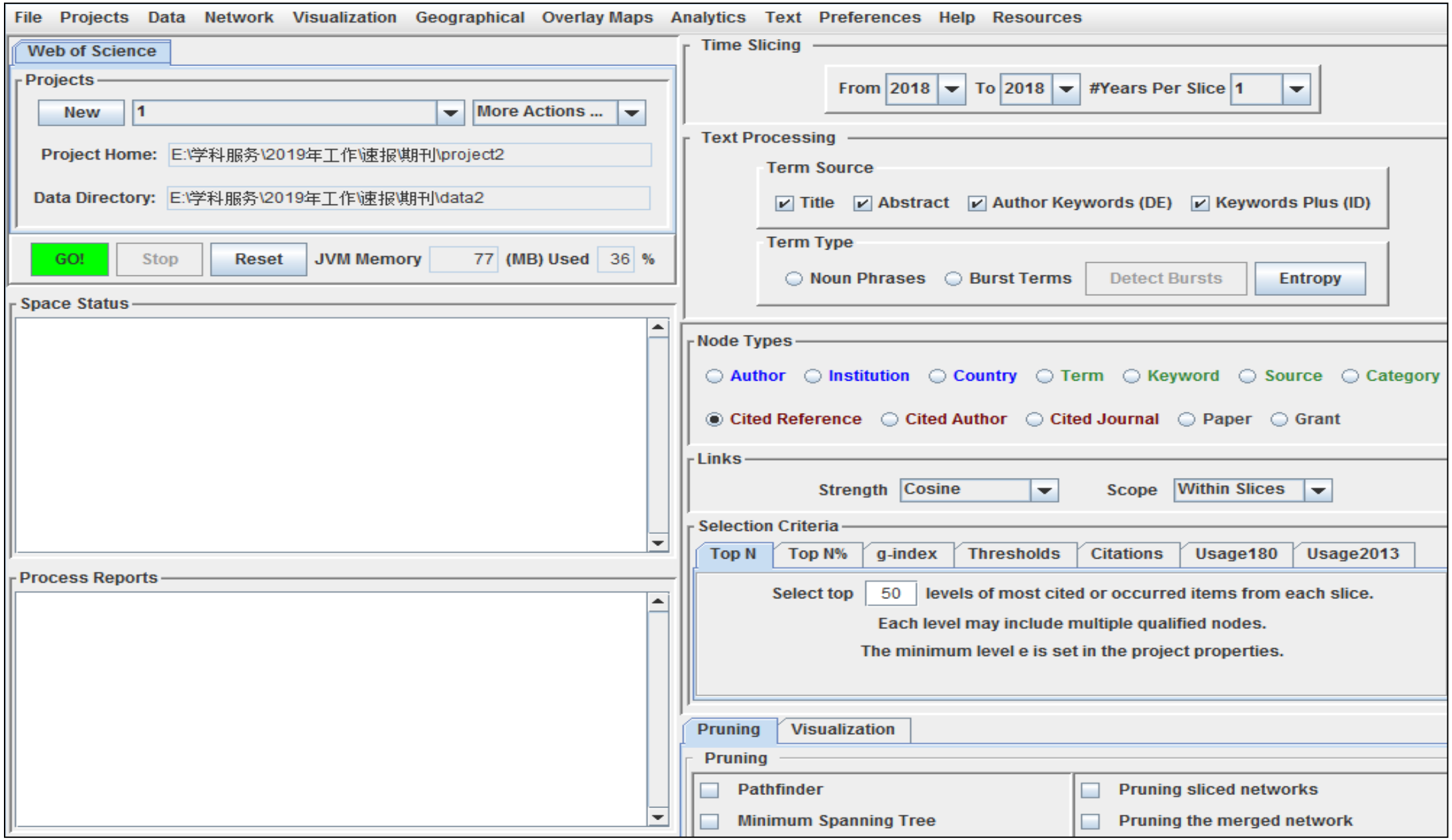
Acknowledgements

National Science Foundation (NSF): SMA-1633286, IIS-0612129, NSFDACS-10P1303; NEVAC; Thomson Reuters Citation Analysis Research Grant (2002)



Note: CiteSpace may log user driven events for scholarly purposes. Do not proceed if you do not agree.

Agree | Disagree


File Projects Data Network Visualization Geographical Overlay Maps Analytics Text Preferences Help Resources
Web of Science
Projects
New
1
More Actions ...
Project Home: E:\学科服务\2019年工作\速报\期刊\project2
Data Directory: E:\学科服务\2019年工作\速报\期刊\data2
GO!
Stop
Reset
JVM Memory 77 (MB) Used 36 %
Space Status
Process Reports
Time Slicing
From 2018 To 2018 #Years Per Slice 1
Text Processing
Term Source
Title Abstract Author Keywords (DE) Keywords Plus (ID)
Term Type
Noun Phrases Burst Terms Detect Bursts Entropy
Node Types
Author Institution Country Term Keyword Source Category
Cited Reference Cited Author Cited Journal Paper Grant
Links
Strength Cosine Scope Within Slices
Selection Criteria
Top N Top N% g-index Thresholds Citations Usage180 Usage2013
Select top 50 levels of most cited or occurred items from each slice.
Each level may include multiple qualified nodes.
The minimum level e is set in the project properties.
Pruning Visualization
Pruning
Pathfinder
Minimum Spanning Tree
Pruning sliced networks
Pruning the merged network

背景知识

使用技巧

实例分析

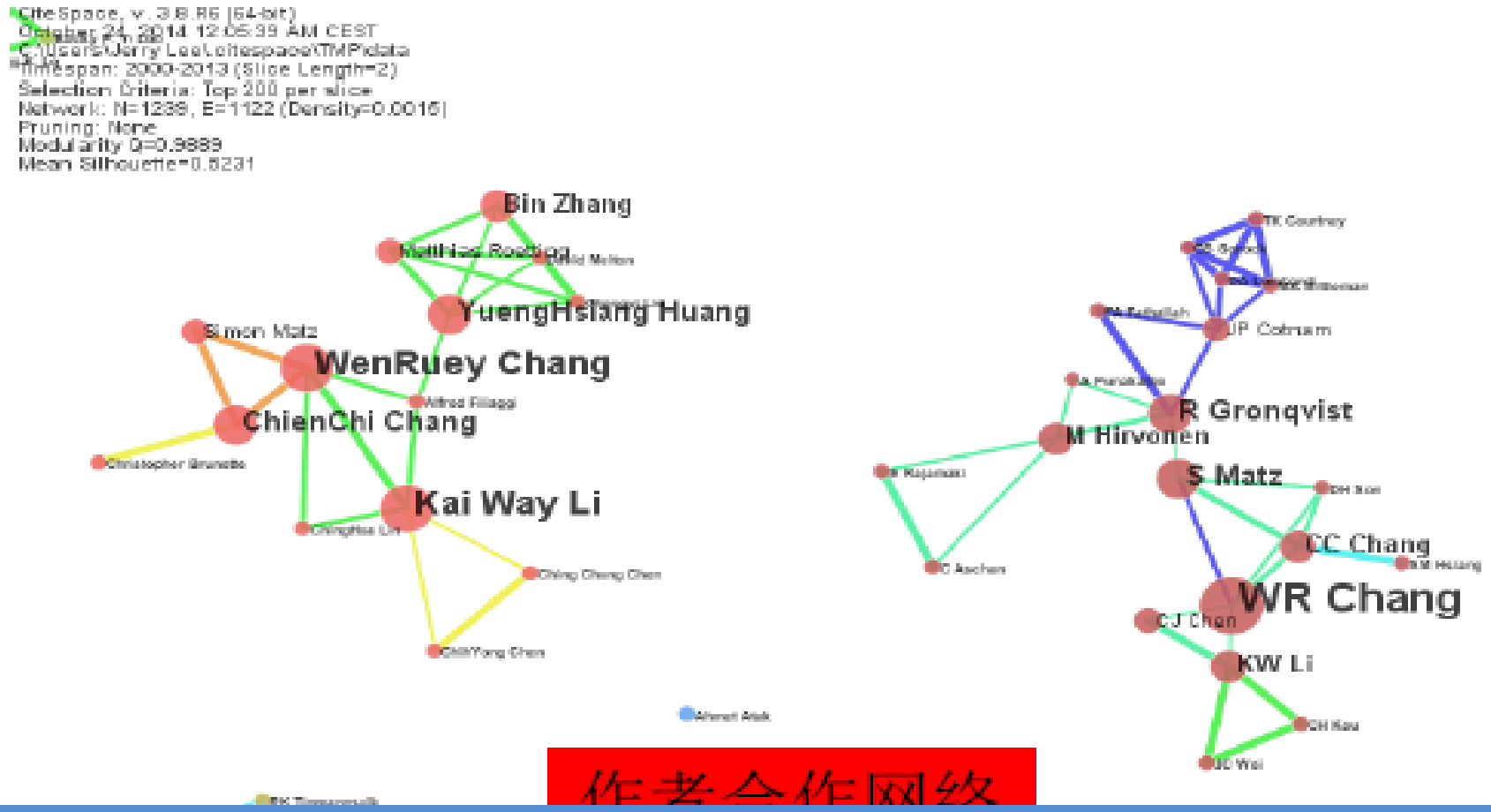
Citespace主要功能

节点类型决定了使用CiteSpace分析的目的

节点类型	图谱类型	节点类型	图谱类型
Author	作者共现图谱	Institution	机构共现图谱
Country	国家共现图谱	Term	术语共现图谱
Keyword	关键词共现图谱	Source	相似度图谱
Category	WOS 学科类别共现图谱	Cited Reference	文献共被引图谱
Cited Author	作者共被引图谱	Cited Journal	期刊共被引图谱
Paper	文献耦合图谱	Grant	共同资助图谱

Author Institution Country

作者、机构或者国家的合作网络分析



网中节点的大小反映的是作者、国家/地区或者机构的发文量。

图 1 作者合作网络

Term Keyword Source Category

主题、关键词或WoS分类的共现分析

节点大小反映的是主题、关键词或者领域的频次。

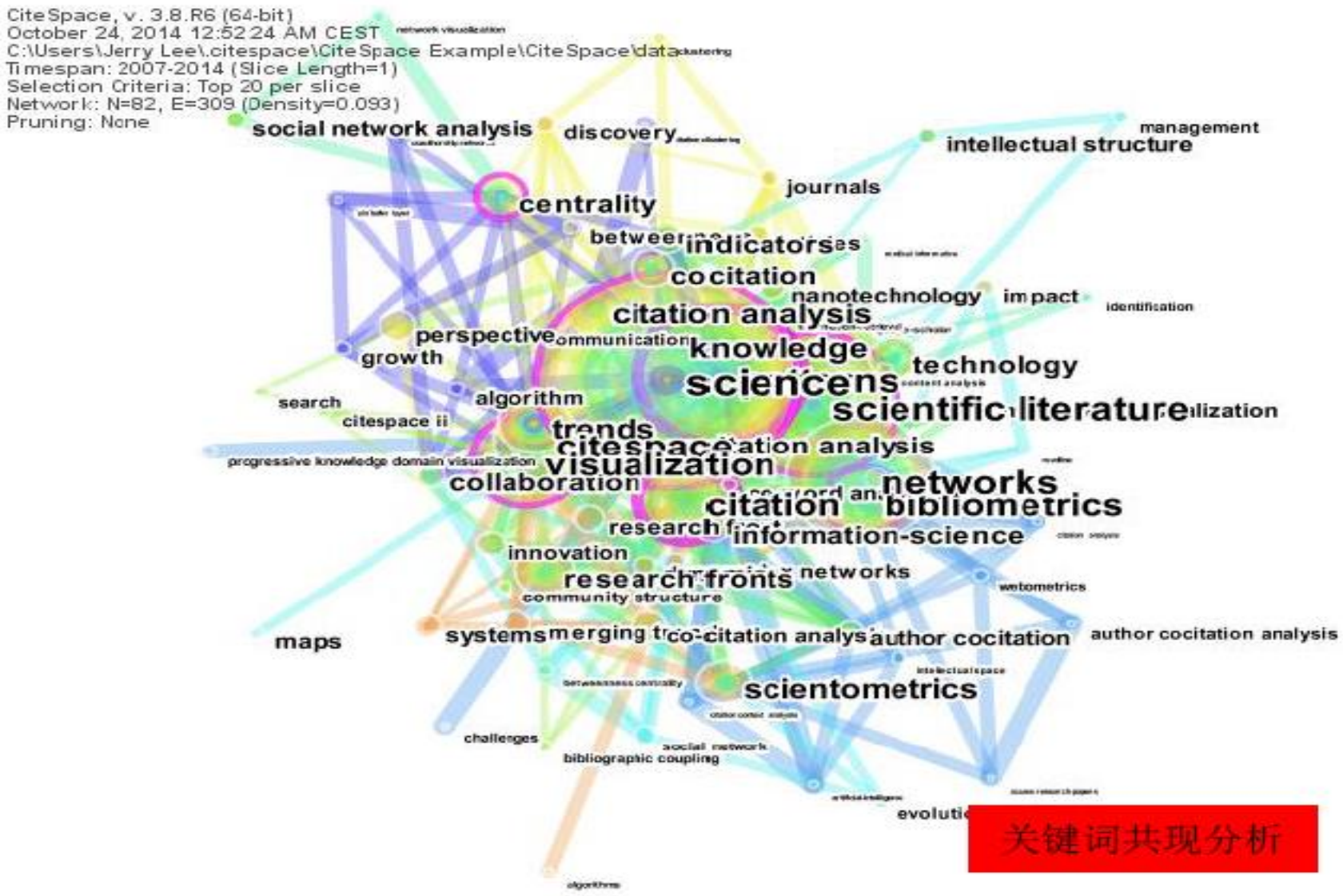
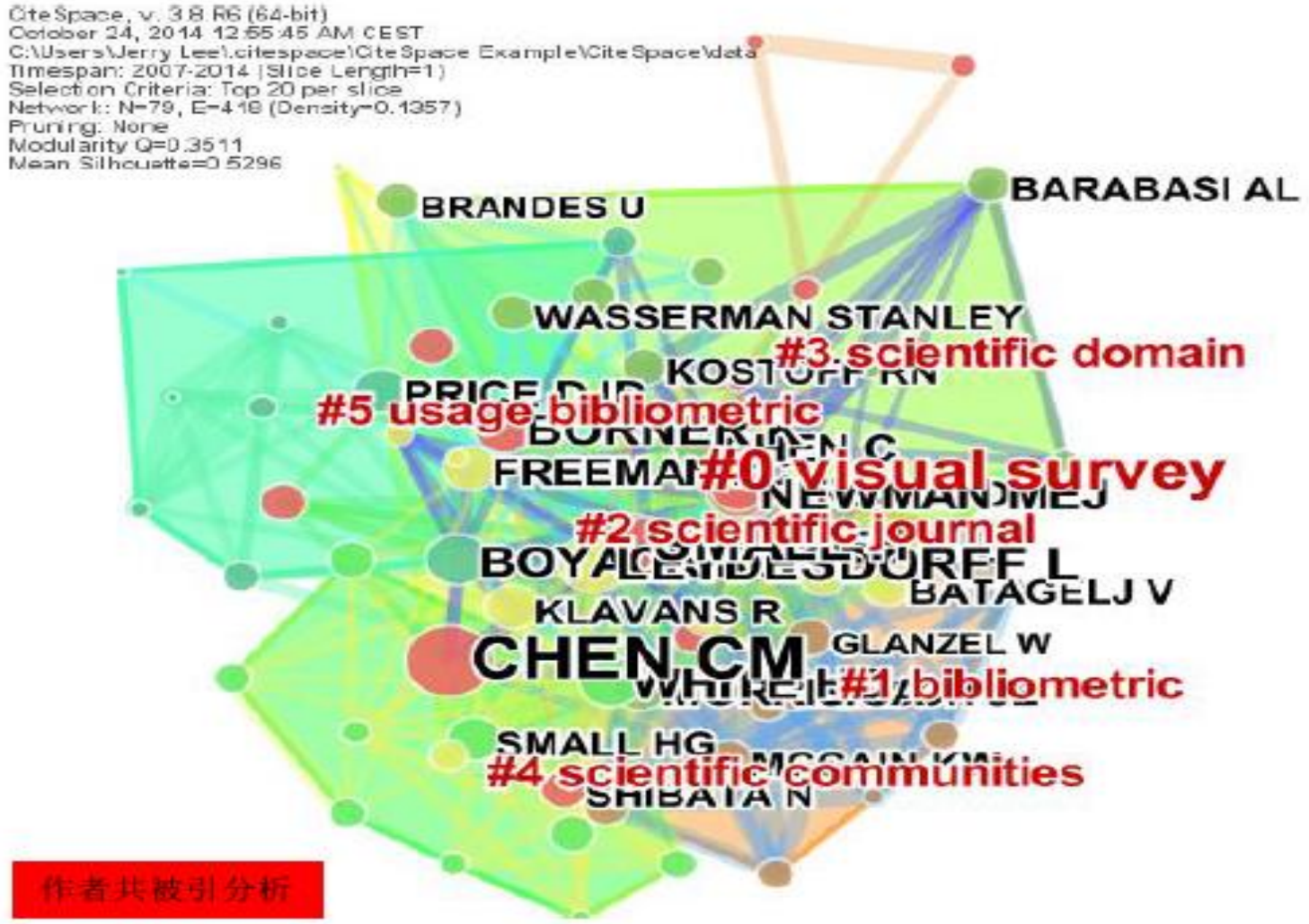


图4 关键词共现分析

Cited Reference Cited Author Cited Journal

文献的共被引分析、作者的共被引分析以及期刊的共被引分析



节点的大小代表文献、期刊或者作者的被引次数

Citespace使用流程图

确定主题词

收集数据

数据导入

数据协调

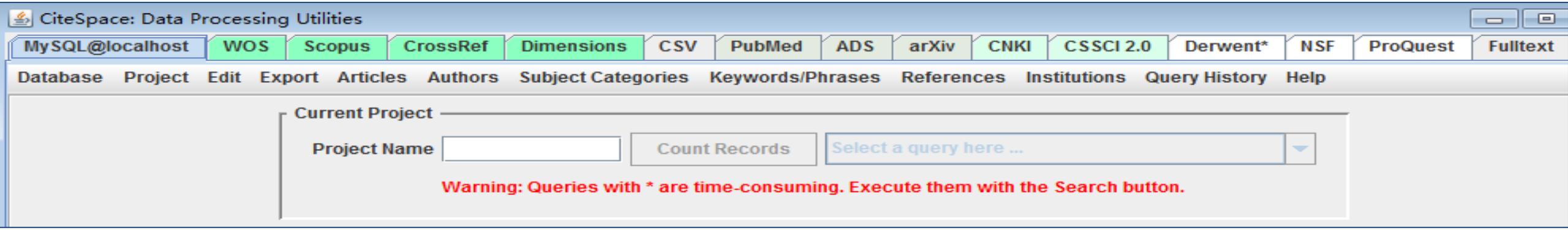
判读图谱

分析结论

确定主题词

- 尽可能广泛的专业术语—— 知识领域

收集数据


CiteSpace: Data Processing Utilities
MySQL@localhost
WOS
Scopus
CrossRef
Dimensions
CSV
PubMed
ADS
arXiv
CNKI
CSSCI 2.0
Derwent*
NSF
ProQuest
Fulltext
Database
Project
Edit
Export
Articles
Authors
Subject Categories
Keywords/Phrases
References
Institutions
Query History
Help
Current Project
Project Name
Count Records
Select a query here ...
Warning: Queries with * are time-consuming. Execute them with the Search button.

文献管理中心-文献输出

CAJ-CD格式引文

查新（引文格式）

查新（自定义引文格式）

CNKI E-Study

下载软件

CNKI桌面版个人数字图书馆

下载软件

Refworks

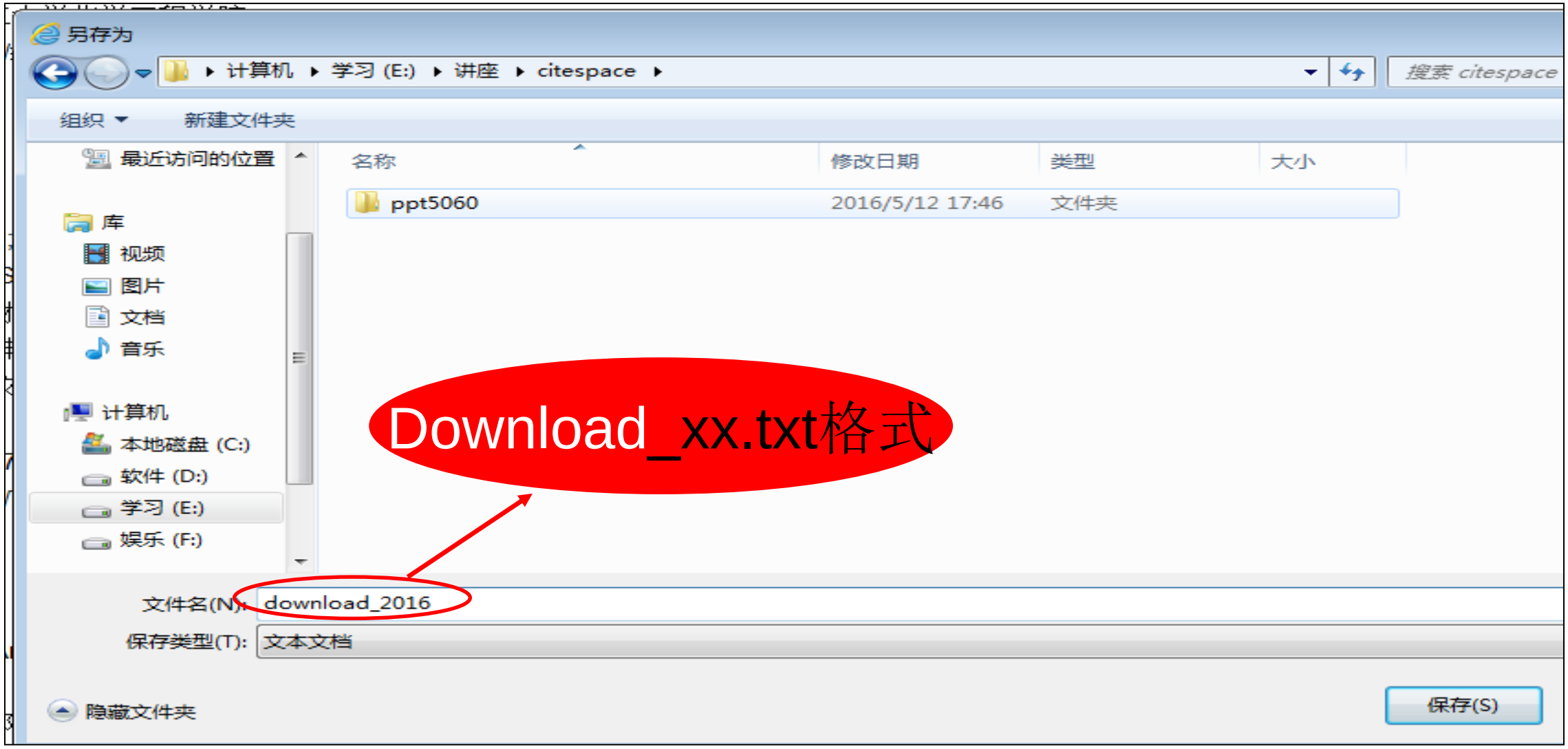
EndNote

复制到剪贴板 | 打印 | 导出 | xls | doc

RT Newspaper Article
SR 1
A1 《网络世界》记者 柴莎莎
T1 寻宝大数据
JF 网络世界
OP 030
FD 2012-02-13
PB 网络世界
LA 中文;
CN 11-0007
DS CNKI

RT Newspaper Article
SR 1
A1 赛迪智库软件与信息服务研究所
AD 赛迪智库软件与信息服务研究所;
T1 美国将发展大数据提升到战略层面

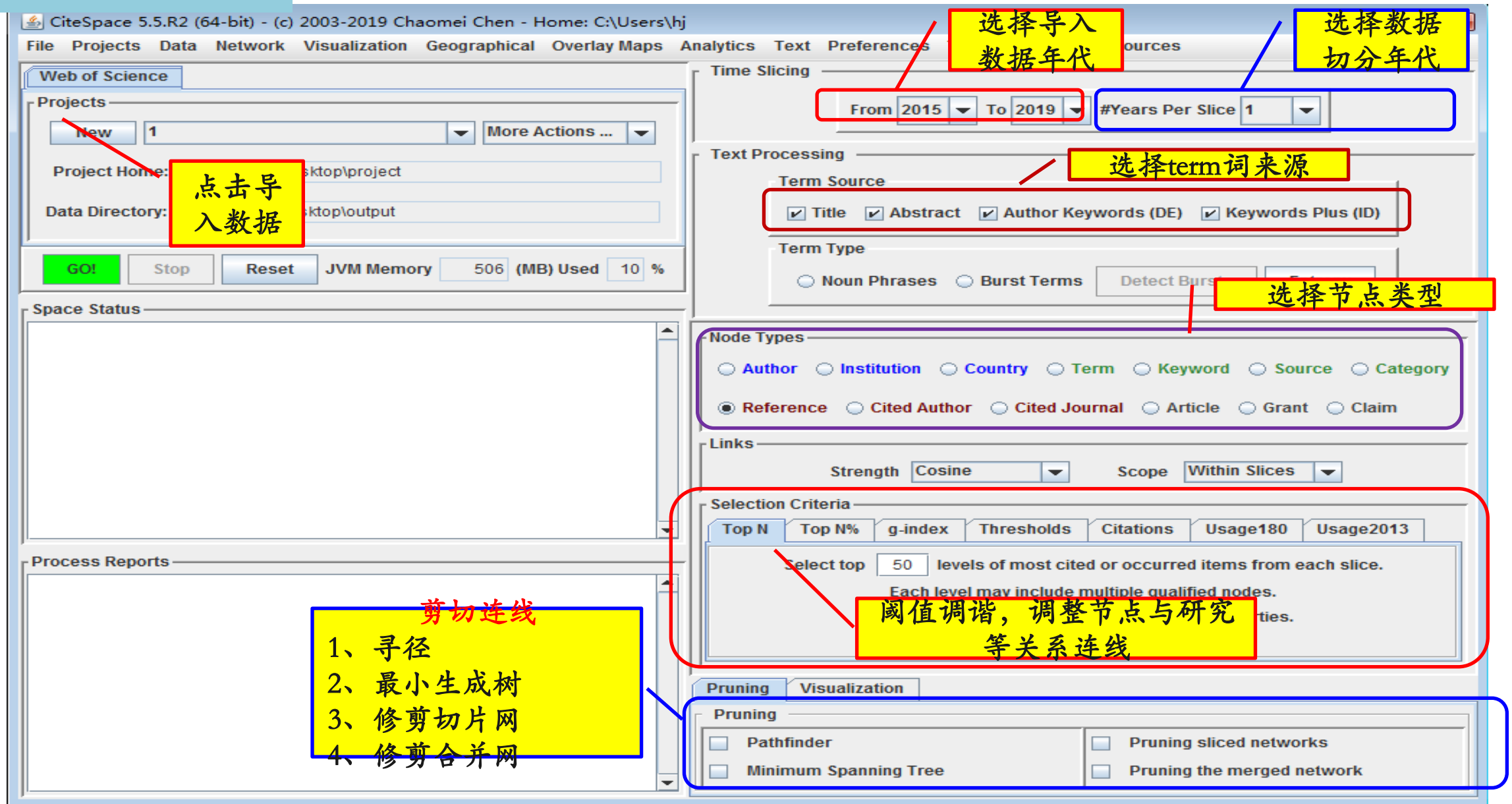
Citespace用于输入的文献类型是Refworks


另存为
计算机 ▸ 学习 (E:) ▸ 讲座 ▸ citespace ▸
搜索 citespace
组织
新建文件夹
最近访问的位置
库
视频
图片
文档
音乐
计算机
本地磁盘 (C:)
软件 (D:)
学习 (E:)
娱乐 (F:)
名称
修改日期
类型
大小
ppt5060
2016/5/12 17:46
文件夹
Download_xx.txt格式
文件名(N): download_2016
保存类型(T): 文本文档
隐藏文件夹
保存(S)

数据导入

- 见后实例

数据协调


CiteSpace 5.5.R2 (64-bit) - (c) 2003-2019 Chaomei Chen - Home: C:\Users\hj
File Projects Data Network Visualization Geographical Overlay Maps Analytics Text Preferences
选择导入数据年代
选择数据切分年代
Web of Science
Projects
New
1
More Actions ...
Project Home:
Data Directory:
点击导入数据
GO!
Stop
Reset
JVM Memory
506
(MB) Used
10
%
Time Slicing
From 2015
To 2019
#Years Per Slice 1
Text Processing
选择term词来源
Term Source
Title
Abstract
Author Keywords (DE)
Keywords Plus (ID)
Term Type
Noun Phrases
Burst Terms
选择节点类型
Space Status
Node Types
Author
Institution
Country
Term
Keyword
Source
Category
Reference
Cited Author
Cited Journal
Article
Grant
Claim
Links
Strength
Cosine
Scope
Within Slices
Selection Criteria
Top N
Top N%
g-index
Thresholds
Citations
Usage180
Usage2013
Select top
50
levels of most cited or occurred items from each slice.
Each level may include multiple qualified nodes.
阈值调谐，调整节点与研究等关系连线
Process Reports
剪切连线
1、寻径
2、最小生成树
3、修剪切片网
4、修剪合并网
Pruning
Visualization
Pruning
Pathfinder
Minimum Spanning Tree
Pruning sliced networks
Pruning the merged network

说明1

1.Top N：

系统设定N=50，意为在每个time slice（时间区）中提取N个被引次数最高的文献。N越大生成的网络将相对更全面一些。

2.Top N%:

每个时区中选择前N%个高频出现的节点。

3.Threshold Interpolation：

用户在引文数量、共被引频次和共被引系数三个层次上，按前中后三个时区分别设定阈值。

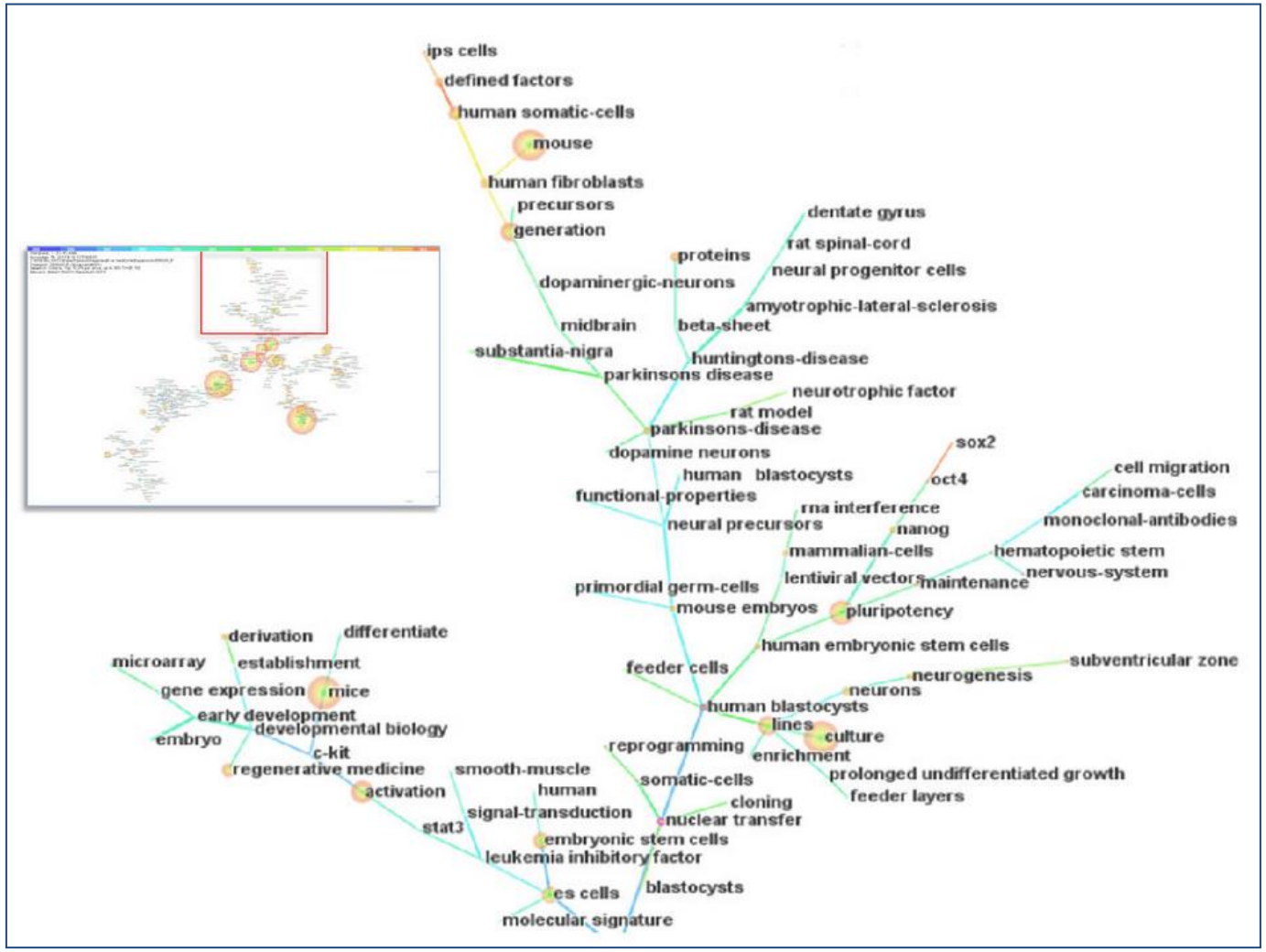
说明2

1.Pruning提供网络简化算法。选用不同算法，即使小小的变化，软件选

择出的被引文献或者关键词其中心度变化很大

2.最小生成树算法剪枝得到的共词网络（见下图）。利用最小生成树可以

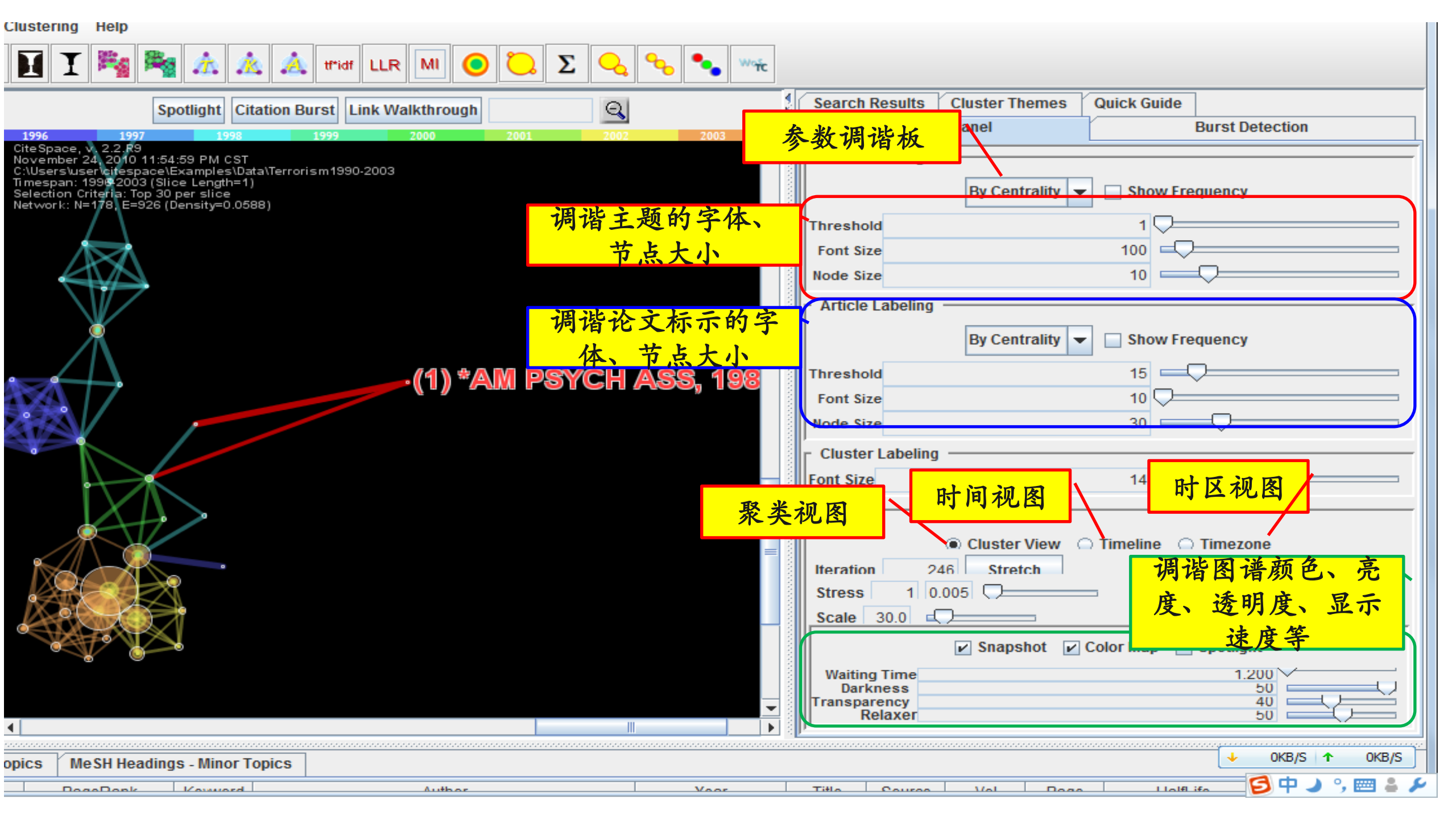
解决整体图谱结构“一团乱麻”的问题，让主题词分布更为舒展和清晰。



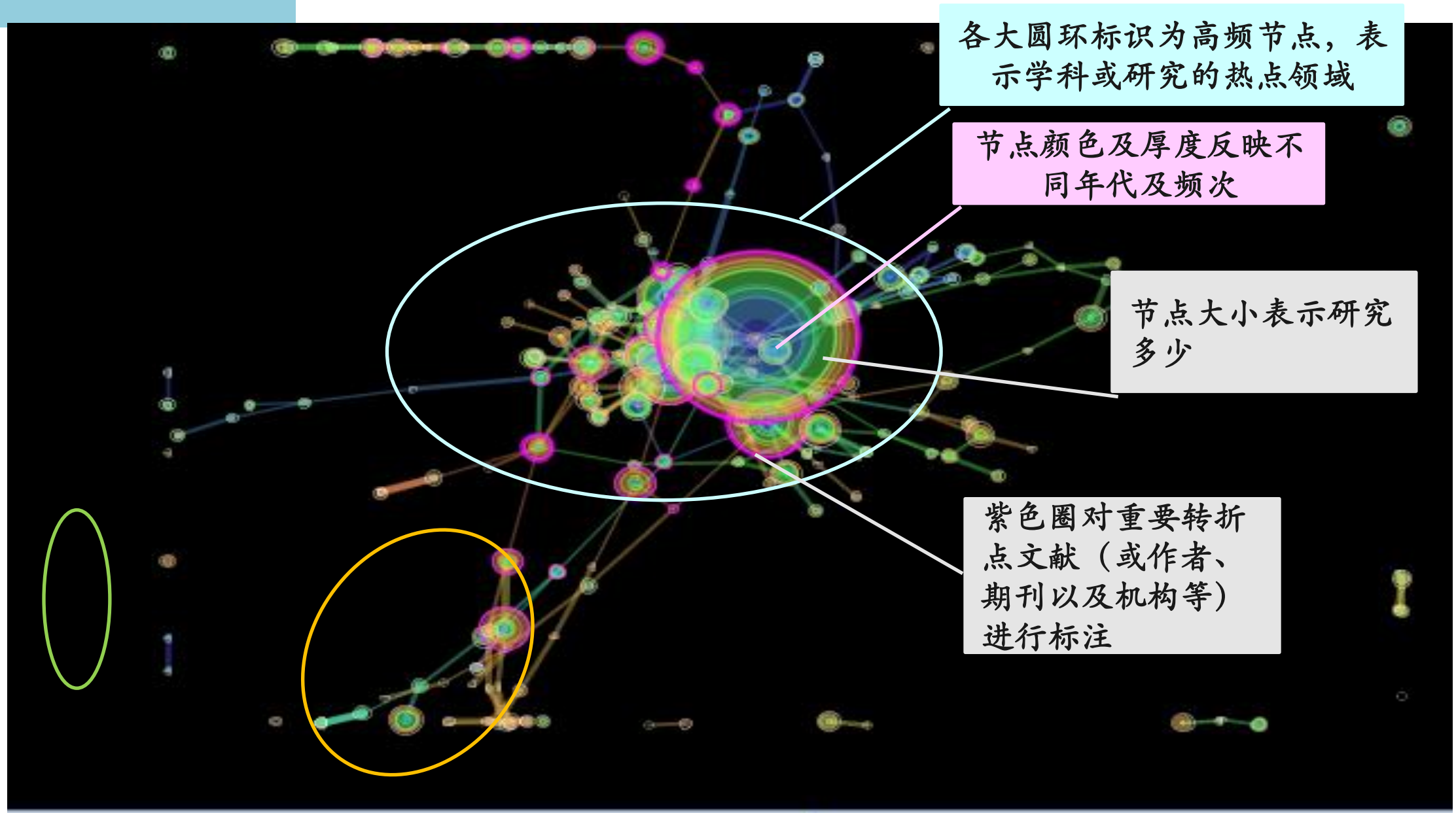
说明3

如果图谱中所有节点都纠缠在一起怎么办？
检查下面几种原因：数据范围是否过窄，门槛设置是否过高（threshold），曝光时间是否过短（time slice）。

File Export Layout Display Filtering Clustering Help
tf*idf LLR MI
Spotlight Citation Burst Link Walkthrough
Cluster Themes Quick Guide
Search Results
Control Panel Burst Detection
Term Labeling
By Centrality
Threshold
Font Size
Node Size
Article Labeling
By Centrality
Threshold
Font Size
Node Size
Cluster Labeling
Font Size
Layout
Cluster View Timeline
Stress
Scale
Snapshot Color Map
Waiting Time
Darkness
Transparency
Relaxer
Node Details
MeSH Headings - Major Topics
MeSH Headings - Minor Topics
0KB/S 0KB/S
图谱背景色
寻找聚类
寻找最佳聚类
用标题词标记聚类
用关键词标记聚类
用摘要词标记聚类
聚类命名的抽取方法
按词频显示聚类高引频文献
年代色标
图谱大小调谐

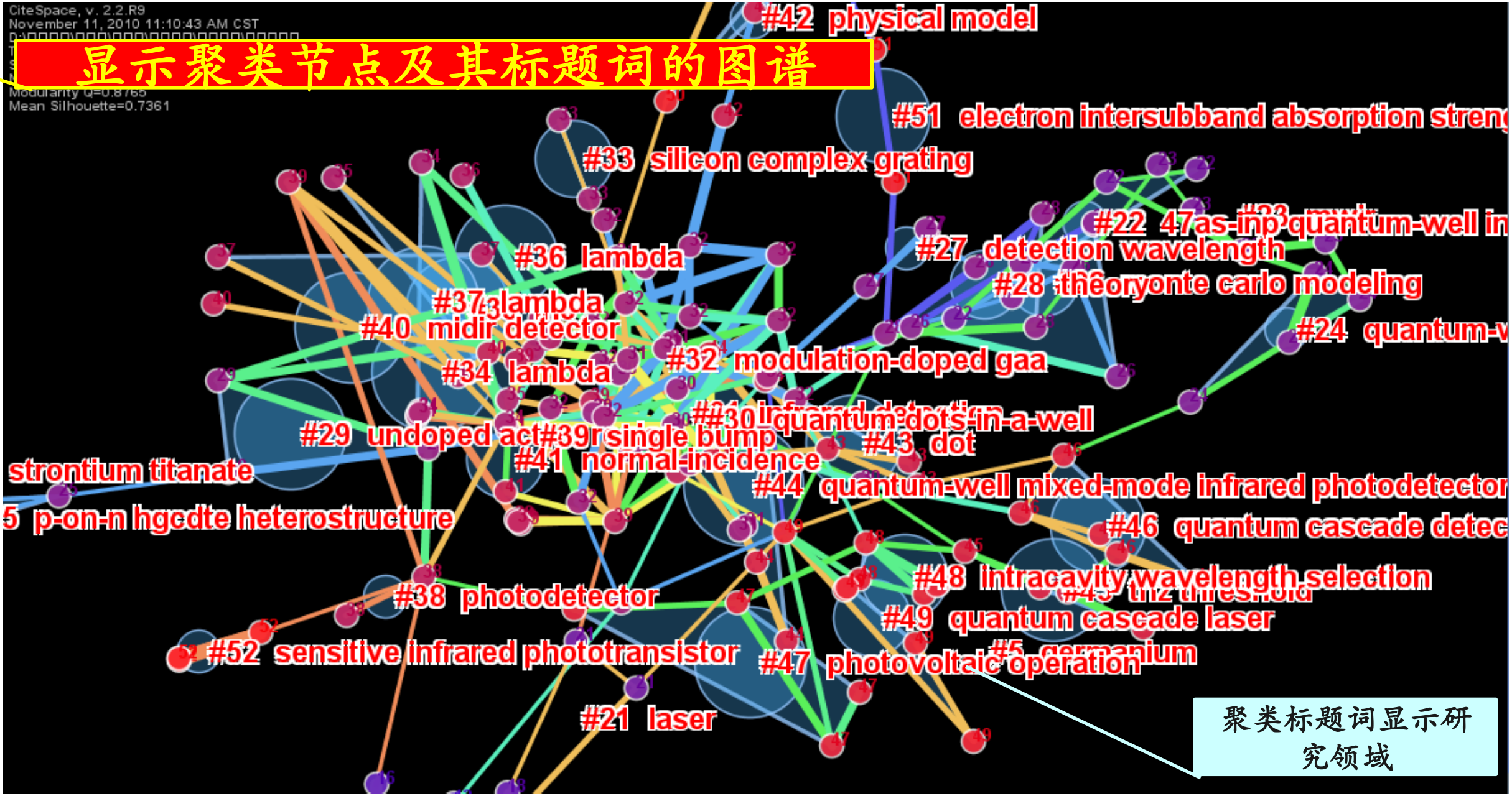

Clustering
Help
tf*idf
LLR
MI
Spotlight
Citation Burst
Link Walkthrough
1996
1997
1998
1999
2000
2001
2002
2003
CiteSpace, v. 2.2.R9
November 24, 2010 11:54:59 PM CST
C:\Users\user\citespace\Examples\Data\Terrorism1990-2003
Timespan: 1990-2003 (Slice Length=1)
Selection Criteria: Top 30 per slice
Network: N=178, E=926 (Density=0.0588)
(1) *AM PSYCH ASS, 198
Search Results
Cluster Themes
Quick Guide
Burst Detection
参数调谐板
By Centrality
Show Frequency
Threshold
1
Font Size
100
Node Size
10
调谐主题的字体、节点大小
Article Labeling
By Centrality
Show Frequency
Threshold
15
Font Size
10
Node Size
30
调谐论文标示的字体、节点大小
Cluster Labeling
Font Size
14
聚类视图
时间视图
时区视图
Cluster View
Timeline
Timezone
Iteration
246
Stretch
Stress
1
0.005
Scale
30.0
调谐图谱颜色、亮度、透明度、显示速度等
Snapshot
Color
Waiting Time
1,200
Darkness
50
Transparency
40
Relaxer
50
MeSH Headings - Minor Topics
0KB/S
0KB/S

判读图谱


各大圆环标识为高频节点，表示学科或研究的热点领域
节点颜色及厚度反映不同年代及频次
节点大小表示研究多少
紫色圈对重要转折点文献（或作者、期刊以及机构等）进行标注

说明4

紫色圆环：中介中心性是测度节点在网络中重要性的一个指标（此外还有度中心性、接近中心性等）。CiteSpace中使用此指标来发现和衡量文献的重要性，并用紫色圈对该类文献（或作者、期刊以及机构等）进行重点进行标注。


CiteSpace, v. 2.2.R9
November 11, 2010 11:10:43 AM CST
Modularity Q=0.8765
Mean Silhouette=0.7361
显示聚类节点及其标题词的图谱
#42 physical model
#51 electron intersubband absorption streng
#33 silicon complex grating
#22 47as-inp quantum-well in
#27 detection wavelength
#36 lambda
#28 theoryonte carlo modeling
#37 lambda
#40 midir detector
#24 quantum-v
#32 modulation-doped gaa
#34 lambda
#30 quantum-dots-in-a-well
#29 undoped act#39r single bump
#43 dot
#41 normal-incidence
strontium titanate
#44 quantum-well mixed-mode infrared photodetector
5 p-on-n hgcdte heterostructure
#46 quantum cascade detec
#48 intracavity wavelength selection
#38 photodetector
#49 quantum cascade laser
#52 sensitive infrared phototransistor
#47 photovoltaic operation
#21 laser
聚类标题词显示研究领域

分析结论

研读高共被引文提取研究热点

Visible	Freq	Centrality	Year	Key
☑	125	0.34	1993	LEVINE BF, 1993, J APPL PH...
☑	52	0.29	1994	FAIST J, 1994, SCIENCE, V2...
☑	44	0.11	1998	PAN D, 1998, APPL PHYS LE...
☑	44	0.07	1999	PHILLIPS J, 1999, IEEE J QU...
☑	41	0.15	1996	RYZHII V, 1996, SEMICOND ...
☑	41	0.07	1998	MAIMON S, 1998, APPL PHY...
☑	37	0.02	1998	PHILLIPS J, 1998, APPL PHY...
☑	35	0.11	1987	SMITH DL, 1987, J APPL PH...
☑	33	0.14	2003	JIANG L, 2003, APPL PHYS L...
☑	33	0.10	2001	LIU HC, 2001, APPL PHYS L...
☑	30	0.06	2002	RAGHAVAN S, 2002, APPL P...
☑	28	0.10	2004	KIM ET, 2004, APPL PHYS L...
☑	27	0.15	2002	PHILLIPS J, 2002, J APPL P...
☑	26	0.07	2002	KOHLER R, 2002, NATURE, ...
☑	26	0.02	1998	KIM S, 1998, APPL PHYS LE...
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☑	23	0.13	2007	LIM H, 2007, APPL PHYS LE...
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☑	22	0.24	1987	TANG CW, 1987, APPL PHY...
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☑	21	0.12	1994	YOUNGDALE ER, 1994, APP...
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☑	20	0.15	1985	WEST LC, 1985, APPL PHYS...
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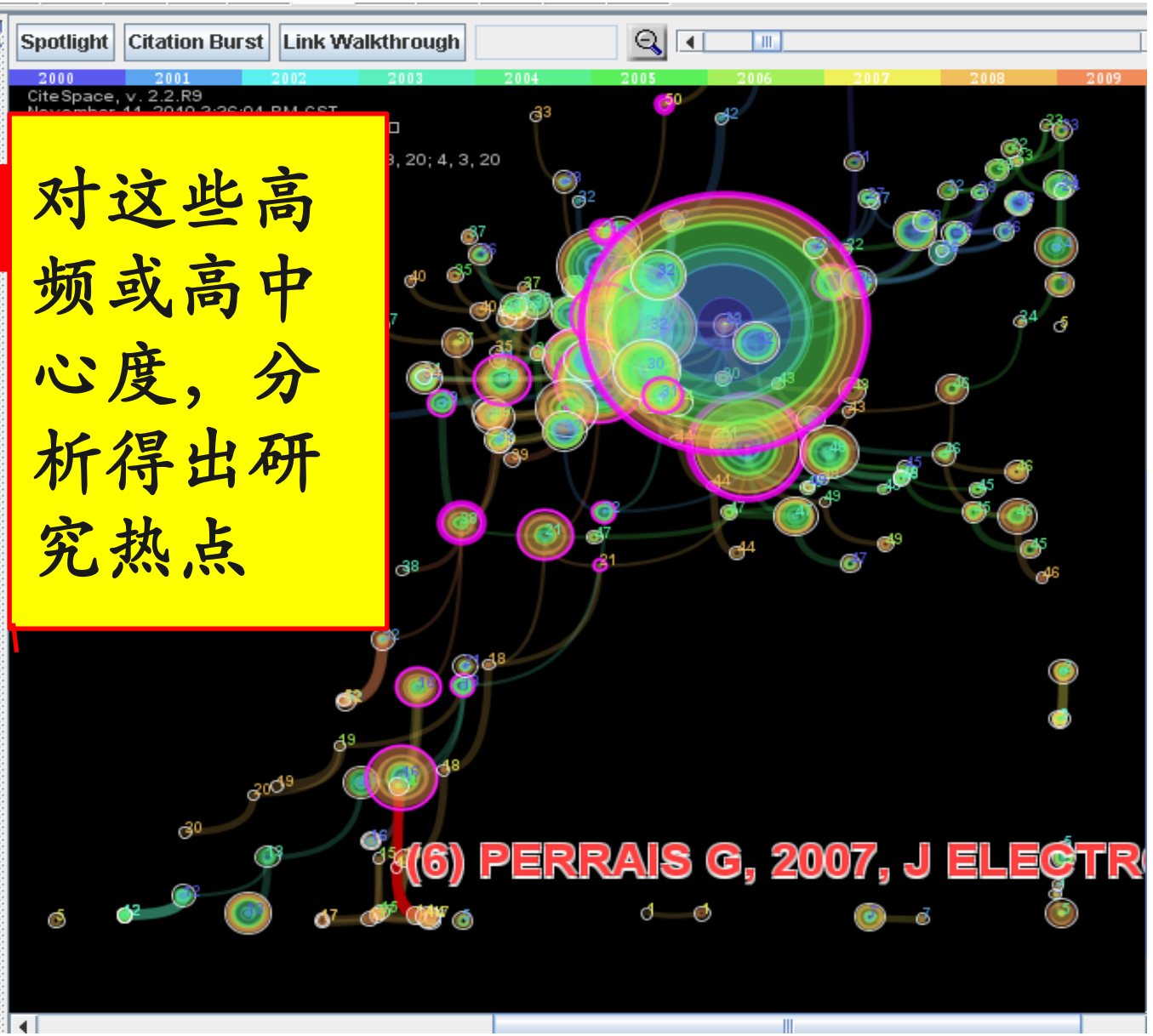
☑	18	0.00	2001	STIFF AD, 2001, IEEE J QU...
☑	18	0.04	1996	THIBAUDEAU L, 1996, J APP...

对这些高频或高中心度，分析得出研究热点



研读施引文献查看研究前沿

该窗口显示的施引文献代表了研究前沿

Citing Articles | Keywords

Coverage

...; adolescent (18.71, 1.0E-4); rural (6.91, 0.01); internet (6.91, 0.01); technology (6.91, 0.01); transition to adult care (6.91, 0.01); youth (6.27, 0.05); adolescents (6.27, 0.05); transition (5.46, 0.05); engagement (4.42, 0.05); prevention (3.48, 0.1); camhs (3.48, 0.1); health inequalities (3.48, 0.1); young adult (3.48, 0.1); school-based health services (3.45, 0.1); information seeking behavior (3.45, 0.1); pressure-redistributing equipment (3.45, 0.1); sex workers (3.45, 0.1); adolescence (3.45, 0.1); cross-temporal meta-analysis (3.45, 0.1); treatment (3.45, 0.1); youth with special health care needs (3.45, 0.1); good practice (3.45, 0.1); clinical staging (3.45, 0.1); service development (3.45, 0.1); pre-emptive psychiatry (3.45, 0.1); scale development (3.45, 0.1); pressure-relieving equipment (3.45, 0.1); patient voice (3.45, 0.1); injecting drug use (3.45, 0.1); psychosocial development (3.45, 0.1); clinical practice (3.45, 0.1); service reform (3.45, 0.1); camhs policy (3.45, 0.1); schools (3.45, 0.1); girls-boys (3.45, 0.1); service engagement (3.45, 0.1); medical informatics (3.45, 0.1); early intervention (3.45, 0.1); pressure ulcer (3.45, 0.1); foster care (3.45, 0.1); school health services (3.45, 0.1); strengths-based practice (3.45, 0.1); paediatrics (3.45, 0.1); parental attitudes (3.45, 0.1); helpseeking attitudes (3.45, 0.1); acial/ethnic minority youth (3.45, 0.1); transitional programs (3.45, 0.1); pressure injury (3.45, 0.1); child mental health services (3.45, 0.1); parity of esteem (3.45, 0.1); continuum of care (3.45, 0.1); transitional youth (3.45, 0.1); design (3.45, 0.1); descriptive (3.45, 0.1); child and adolescent mental health (3.45, 0.1); elementary school age (3.45, 0.1); externalizing behavior problems (3.45, 0.1); school-based health centers (3.45, 0.1); community care (3.45, 0.1); availability (3.45, 0.1); perceived need for treatment (3.45, 0.1); health disparity (3.45, 0.1); child adolescent psychiatry (3.45, 0.1); young men (3.45, 0.1); services (3.45, 0.1); collaboration (3.45, 0.1); integrated services (3.45, 0.1); ethnic minority mental health (3.45, 0.1); discourse analysis (3.45, 0.1); minority health (3.45, 0.1); military (3.45, 0.1); treatment engagement (3.45, 0.1); outcomes research (3.45, 0.1); camhs transition (3.45, 0.1); unmet treatment need (3.45, 0.1); participatory research (3.45, 0.1); rural youth (3.45, 0.1); risk (3.45, 0.1); transition from child/adolescent to adult mental health services (3.45, 0.1); medical education (3.45, 0.1); health transition (3.45, 0.1); confidentiality (3.45, 0.1); client satisfaction (3.45, 0.1); referral (3.45, 0.1); adolescent health services (3.45, 0.1); transition

研读参考文献文献查看研究基础

Cited References | Keywords

Freq	Burst	Centrality	Σ	PageRank	Keyword	Author	Year	Title	Source	Vol	Page	HalfLife	Cluster
6		0.01	1.00	0.00		Patel V	2007	...	LANCET	369	1302	8	0
5		0.03	1.00	0.00		Departm...	2014	...	CLOS GA...	0	0	3	0
4		0.01	1.00	0.00		Inst Med	2009	...	ADOLES...	0	1	5	0
4		0.01	1.00	0.00		Eisenber...	2009	...	MED CA...	66	522	8	0
4		0.04	1.00	0.00		Gore FM	2011	...	LANCET	377	2093	4	0
7		0.00	1.00	0.00		Dhingra SS	2010	...	PSYCHIA...	61	524	8	0
12		0.04	1.00	0.00		Gopalan G	2010	...	J CAN AC...	19	182	7	0
9		0.02	1.00	0.00		Burns J	2014	...	PSYCHO...	7	303	2	0
5		0.00	1.00	0.00		Mclaren S	2013	...	BMC HEA...	13	0	4	0
5		0.00	1.00	0.00		Paul M	2015	...	CLIN CHI...	20	436	2	0
4		0.00	1.00	0.00		Porter ME	2010	...	NEW EN...	363	2477	5	0
4		0.00	1.00	0.00		Vogel DL	2007	...	J COUNS...	54	40	8	0
40		0.10	1.00	0.00		Merikang...	2011	...	J AM ACA...	50	32	5	0
4		0.00	1.00	0.00		Alegria M	2010	...	CHILD A...	19	759	7	0
15		0.01	1.00	0.00		Berwick ...	2008	...	HEALTH ...	27	759	8	0
8		0.01	1.00	0.00		Singh SP	2008	...	BMC HEA...	8	0	7	0
12		0.04	1.00	0.00		Mcgorry PD	2007	...	MED J A...	187	0	8	0
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4		0.00	1.00	0.00		Kim G	2011	...	J PSYCHI...	45	104	6	0
4		0.02	1.00	0.00		Smith JA	2009	...	INTERPR...	0	0	8	0
5		0.02	1.00	0.00		Ingoldsby...	2010	...	J CHILD ...	19	629	8	0
5		0.00	1.00	0.00		Olfson M	2015	...	NEW EN...	372	2029	3	0
4		0.00	1.00	0.00		Mcmillen ...	2009	...	J ADOLE...	44	7	8	0
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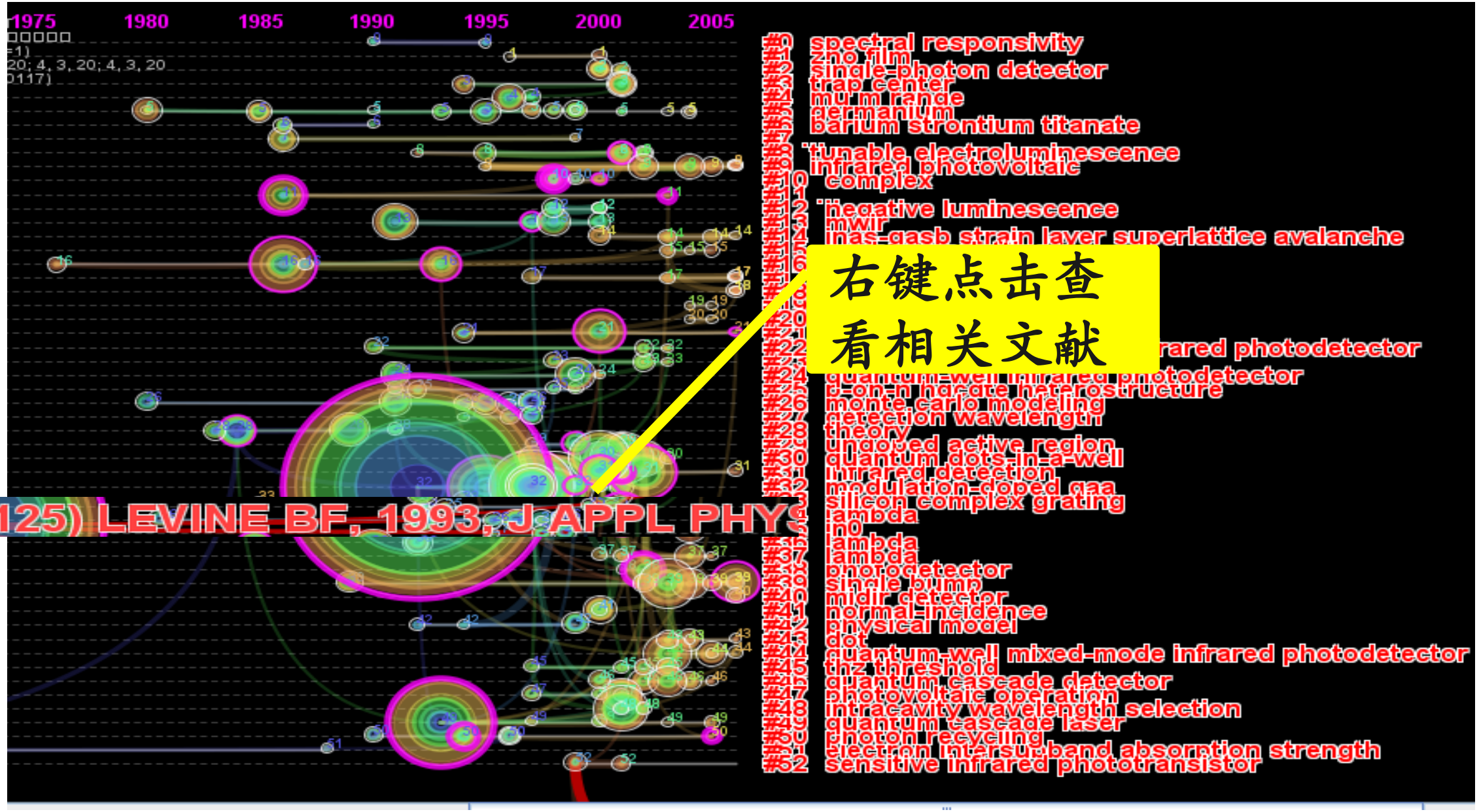
依据时区图得到研究进展



背景资料

使用技巧

实例分析

研究问题：目前国内纳米复合材料研究有哪些领域？有什么新兴的研究前沿？有什么样的发展趋势.....

请看操作演示

目前有哪些研究热点呢？

查看高频词

请看操作演示

有什么新兴的研究呢？

查看Burst点：

突发主题（或文献、作者以及期刊引证信息等）

请看操作演示

目前有哪些研究领域呢？

聚类：

Q值：[0-1]，>0.3表示划分结构显著

S值：0.7以上表示聚类结果令人信服，0.5以上认为合理

请看操作演示

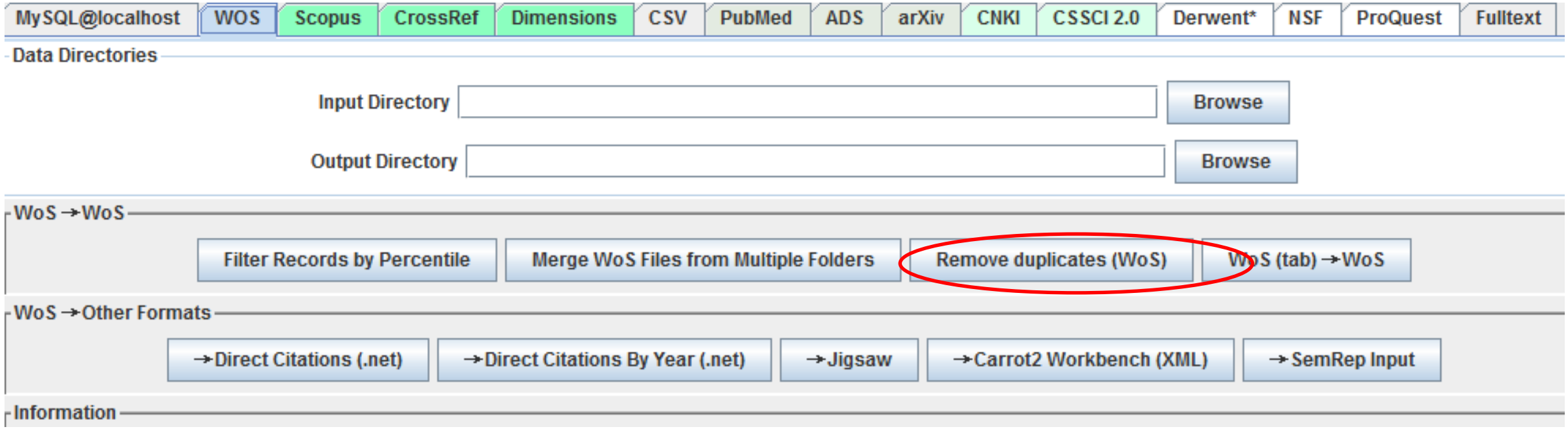
各领域的发展情况？

时间轴（time line） 时间区（time zone）

请看操作演示

补充问题

如何去重?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WOS
Scopus
CrossRef
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CSV
PubMed
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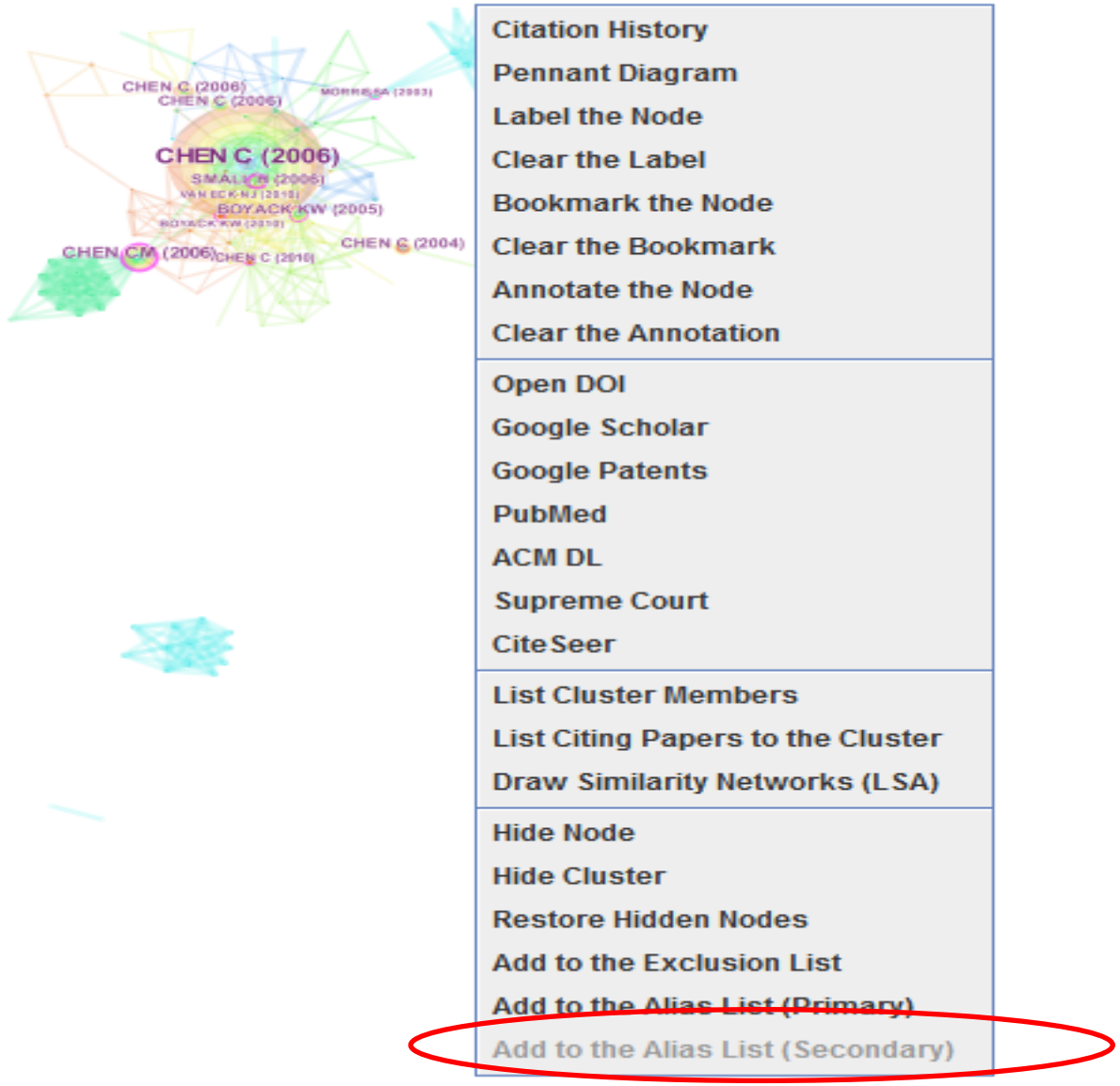
CNKI
CSSCI 2.0
Derwent*
NSF
ProQuest
Fulltext
Data Directories
Input Directory
Browse
Output Directory
Browse
WoS →WoS
Filter Records by Percentile
Merge WoS Files from Multiple Folders
Remove duplicates (WoS)
WoS (tab) →WoS
WoS →Other Formats
→Direct Citations (.net)
→Direct Citations By Year (.net)
→Jigsaw
→Carrot2 Workbench (XML)
→SemRep Input
Information

如何将网络中相同含义的词合并?



各数据库导入数据格式要求

数据库	格式要求	数据库	格式要求
Web of Science	全记录与引用的参考文献纯本文	CNKI	Refworks
Scopus	RIS（.ris）/CSV	CSSCI	默认格式,utf-8 编码
PubMed	XML	Derwent 德温特专利数据库	默认格式
ADS	CiteSpace 内置功能，可直接进行检索和获取文件	NSF（national science foundation）	nsf.gov: XML 格式 research.gov:xlsx 格式
arXiv	CiteSpace 内置功能，可下载 X 天内的 arXiv 上传的论文	Project DX	两个文件：*node.txt:包含用制表符分隔的三列，第一列为标题、第二列为节点 ID *edges.txt:包含用制表符分割的三列，第一列为标题、第二列与第一列相同

讲座签到

调查问卷