

CiteSpace: Duplicates Removal

Document Types to Retain (Keep first DT only)

All Article Review Proceedings ... Editorial Letter Meeting Abst...

Book Review Enrich CR (D... Filter by ZZ Export WoS Export DOI Block Size: 500

Records Found in Total 652

Unique Records 652

Duplicated Records 0

Invalid Records 0

总数据量和重复的记录数

Unique Records by Source

652 WOS

Document Types Retained and (Removed)

604 Article

- 2 Article; Book Chapter
- 4 Article; Data Paper
- 34 Article; Early Access
- 8 Article; Proceedings Paper

Statistics of Fields

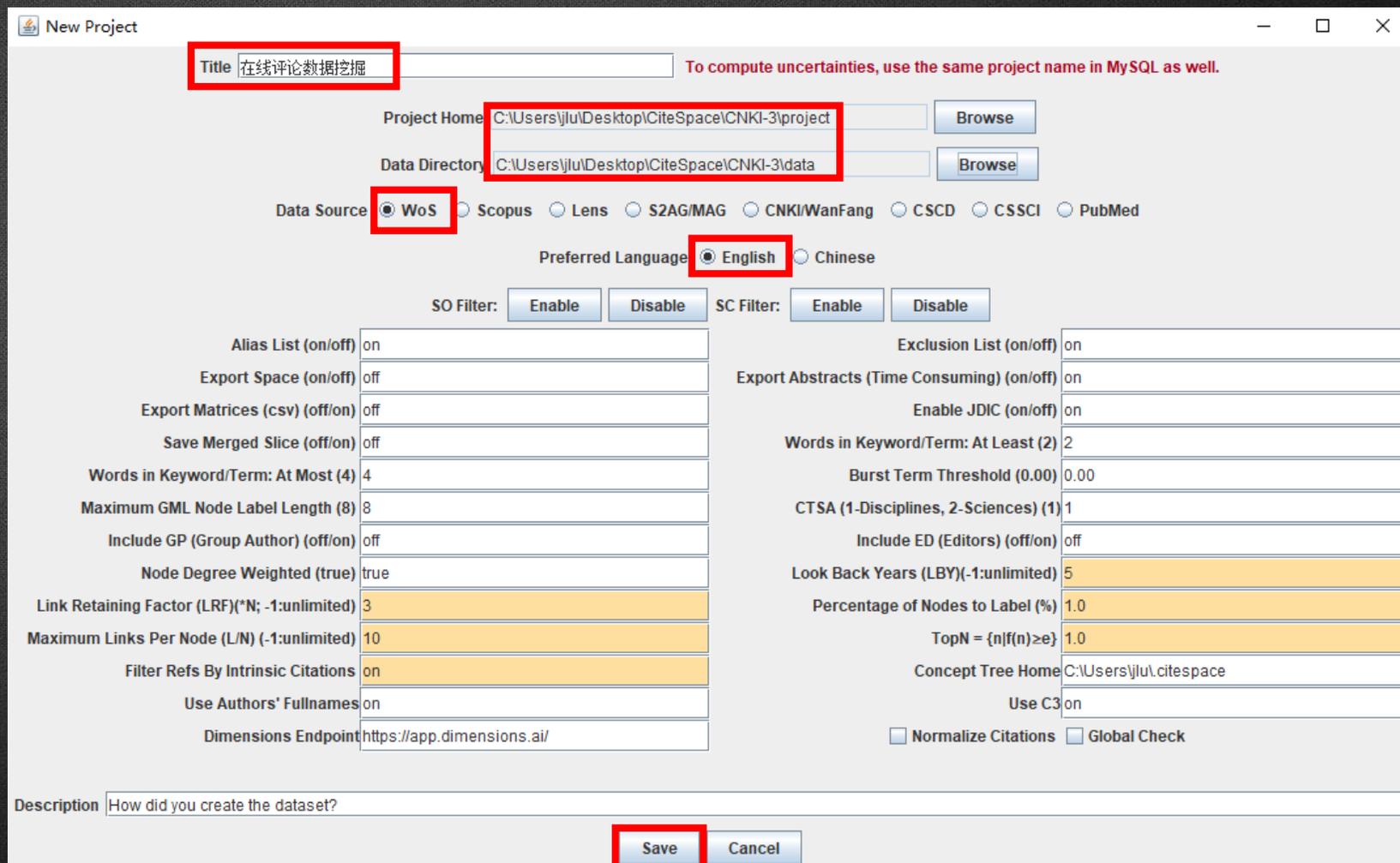
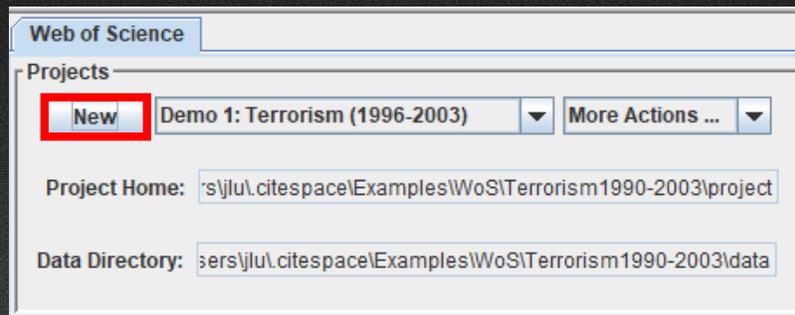
AB	652	100.0%
DOI	652	100.0%
PMID	81	12.423313%
DE	643	98.61963%
WC	652	100.0%
SC	652	100.0%
CR	651	99.84663%

Start Close

二、WOS

第三步：新建项目

- 点击New，输入名称“在线评论数据挖掘”；
- 将文件地址改为project和data文件夹的地址，数据选择WOS，语言选择English；
- 点击Save，项目新建完成。



二、WOS

第三步：新建项目

1. 文献共被引分析

Your Options

? Project Title: 在线评论数据挖掘

Time Frame: 2019-2023
Qualified Records: 384

How do you like to proceed?

CiteSpace 6.2.R4 (64-bit) Basic - (c) 2003-2023 Chaomei Chen - Home: C:\Users\jlu

File Projects Data Visualization Overlay Maps Analytics Network Text Preferences Tutorials Help

Web of Science

Projects

New 在线评论数据挖掘 More Actions ...

Project Home: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\project

Data Directory: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data

GO! Stop Reset JVM Memory 1024 (MB) Used 13 %

Space Status

Similarity measure: Cosine
Link retaining factor: 3.0 times of #nodes

1-year slices criteria space nodes links / all

Pruning configuration:

Year	g	k	space	nodes	links / all
2019	g=73, k=25	1248	73	219 / 544	
2020	g=67, k=25	1374	67	201 / 423	
2021	g=98, k=25	2400	98	294 / 1202	
2022	g=103, k=25	2599	103	309 / 1385	
2023	g=71, k=25	2159	71	213 / 429	

Process Reports

120 Article; Early Access
30 Article; Proceedings Paper

Distinct references [Valid]: 21126 98.5446%
Distinct references [Invalid]: 312 1.4554%

Parsing Time: 18 seconds
Total Run time: 2 seconds

Merged network: Nodes=295, Links=1211
Exclusion List: 0
Network modeling ends at Mon Oct 09 10:00:46 CST 2023.

Time Slicing

From 2019 JAN To 2023 DEC #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 Keyword Term Source Category

Reference Cited Author Cited Journal

Links

Strength Cosine Scope Within Slices

Selection Criteria

g-index Top N Top N%

The selection uses a modified g-index in each slice: $g^2 \leq k \sum_{i \leq g} c_i, k \in Z^+$

To include more or fewer nodes, increase or decrease the scale factor k = 25

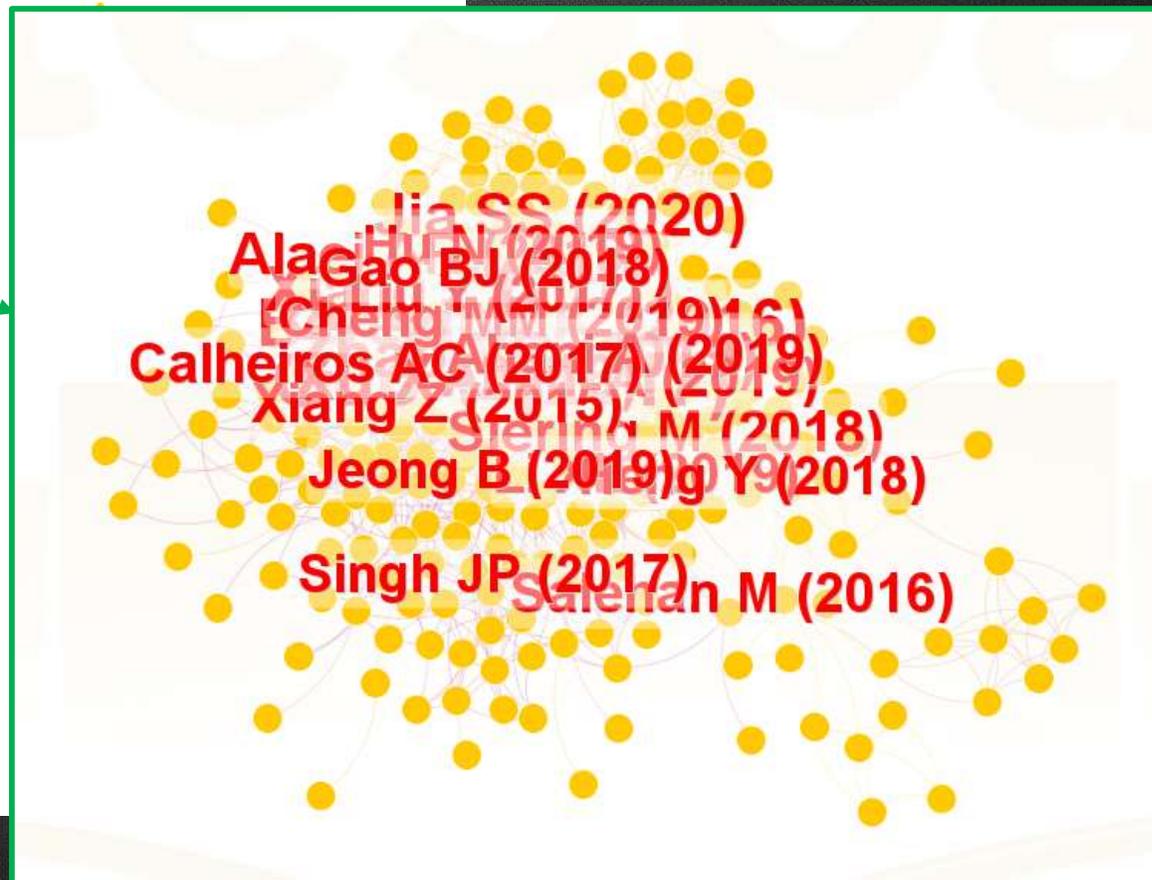
Pruning Visualization

Pruning

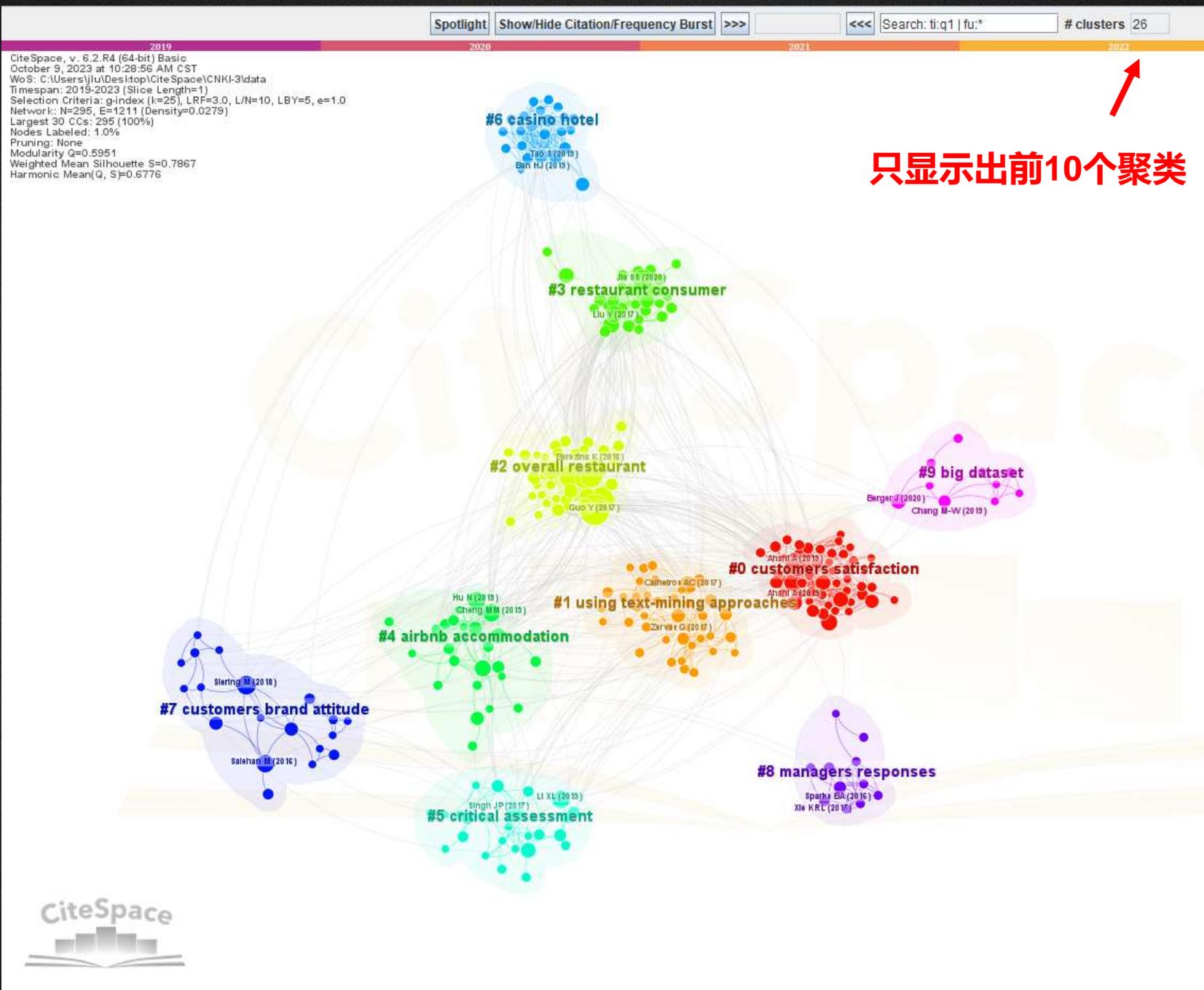
Pathfinder Pruning sliced networks
 Minimum Spanning Tree Pruning the merged network

CiteSpace, v. 6.2.R4 (64-bit) Basic
October 9, 2023 at 10:02:06 AM CST
WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
Timespan: 2019-2023 (Slice Length=1)
Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
Network: N=295, E=1211 (Density=0.0279)
Largest 30 CCs: 295 (100%)
Nodes Labeled: 1.0%
Pruning: None
Modularity Q=0.5951
Weighted Mean Silhouette S=0.7867
Harmonic Mean(Q, S)=0.6776

难以看清，点击聚类按钮



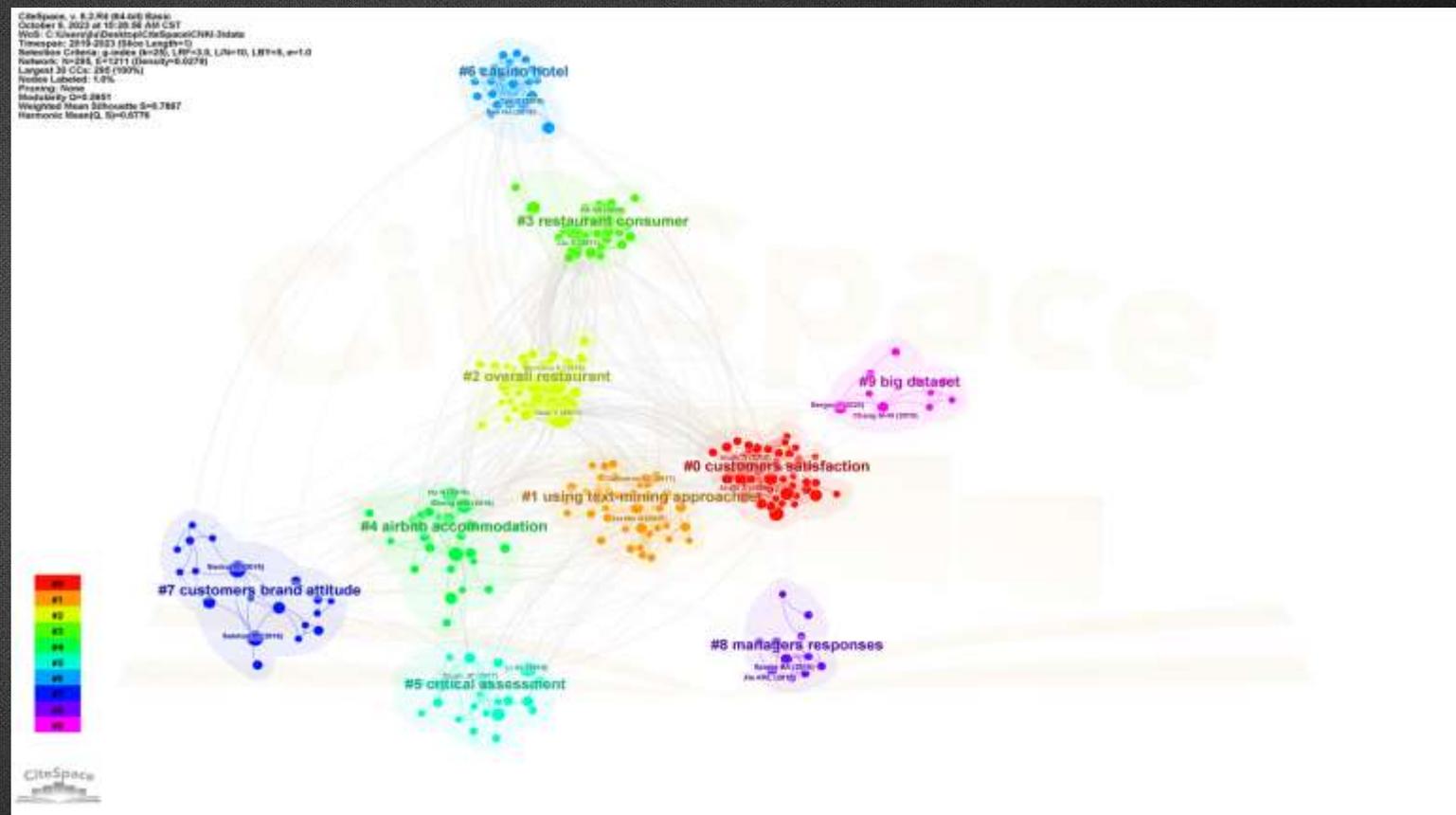
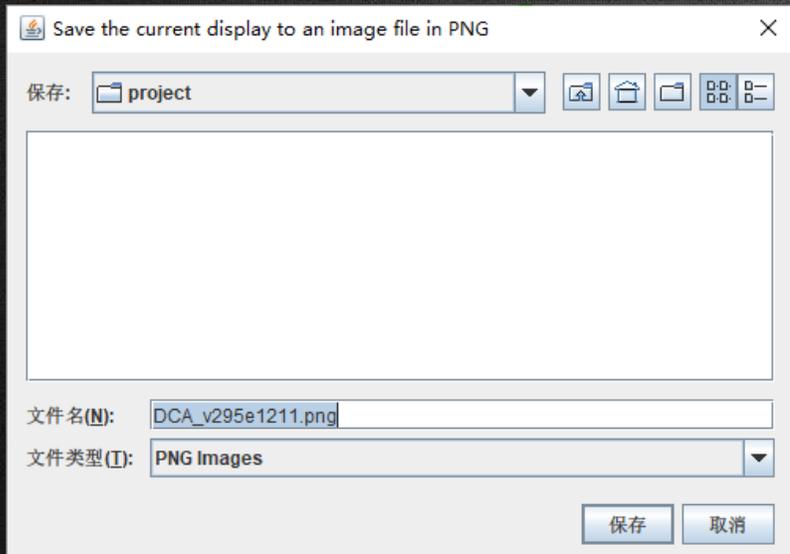
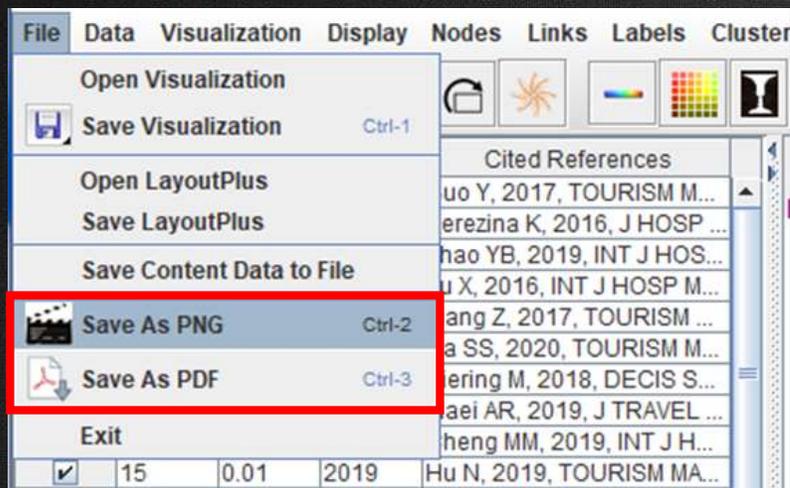
聚类视图：



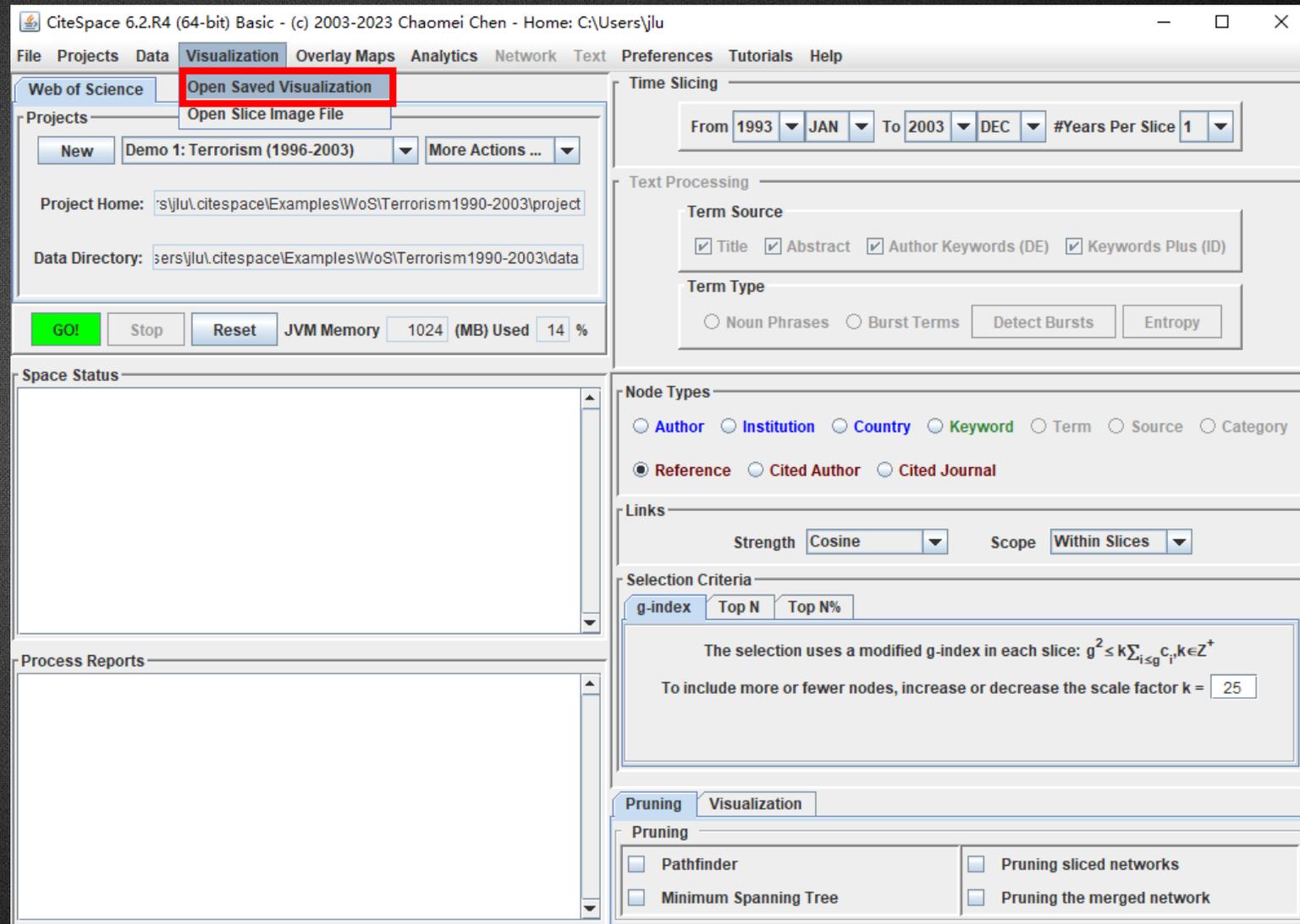
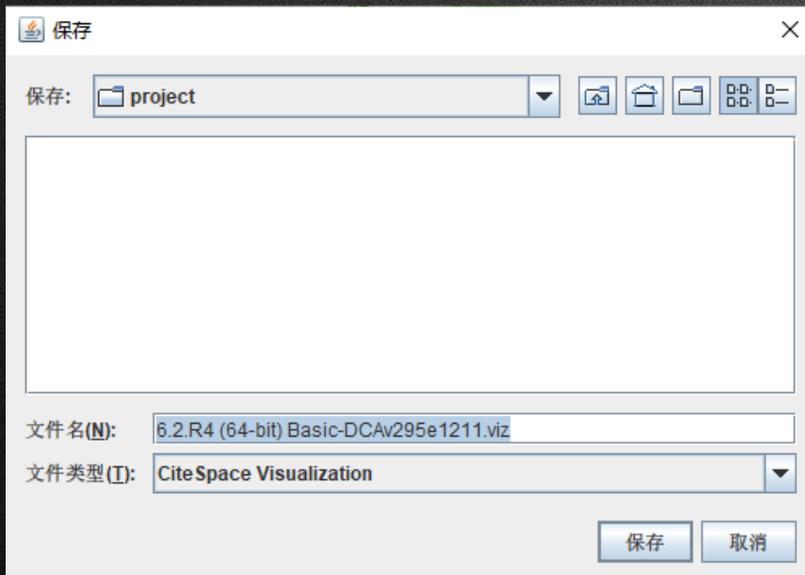
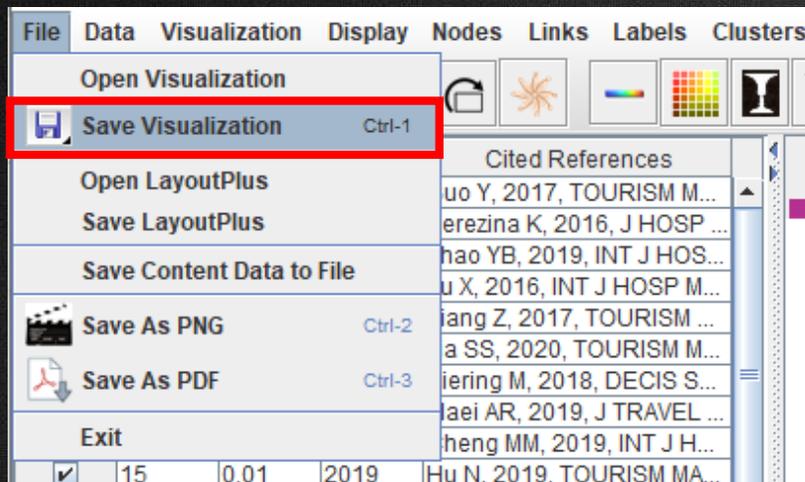
只显示出前10个聚类



保存图像：



保存及打开可视化文件：



突现性：

近5年高被引文献

Control Panel

Colormap | **Burstness** | Search | Clusters

Labels | Layout | Views

Configure the detection model:

$f(x) = ae^{-ax}$, a_1 / a_0 2.0

a_i / a_{i-1} 2.0

The Number of States 2

$\gamma [0,1]$ 1.0

Minimum Duration 2

Burst items found 12

Refresh View

Top 12 References with the Strongest Citation Bursts

References	Year	Strength	Begin	End	2019 - 2023
Xiang Z, 2015, INT J HOSP MANAG, V44, P120, DOI 10.1016/j.ijhm.2014.10.013, DOI	2015	5.83	2019	2020	
Liu ZW, 2015, TOURISM MANAGE, V47, P140, DOI 10.1016/j.tourman.2014.09.020, DOI	2015	3.73	2019	2020	
Schuckert M, 2015, INT J HOSP MANAG, V48, P143, DOI 10.1016/j.ijhm.2014.12.007, DOI	2015	3.73	2019	2020	
Xu X, 2016, INT J HOSP MANAG, V55, P57, DOI 10.1016/j.ijhm.2016.03.003, DOI	2016	3.4	2019	2021	
Guttentag D, 2015, CURR ISSUES TOUR, V18, P1192, DOI 10.1080/13683500.2013.827159, DOI	2015	2.9	2019	2020	
Ravi K, 2015, KNOWL-BASED SYST, V89, P14, DOI 10.1016/j.knosys.2015.06.015, DOI	2015	2.9	2019	2020	
Qi JY, 2016, INFORM MANAGE-AMSTER, V53, P951, DOI 10.1016/j.im.2016.06.002, DOI	2016	2.9	2019	2020	
Schuckert M, 2015, J TRAVEL TOUR MARK, V32, P608, DOI 10.1080/10548408.2014.933154, DOI	2015	2.48	2019	2020	
Hong H, 2017, DECIS SUPPORT SYST, V102, P1, DOI 10.1016/j.dss.2017.06.007, DOI	2017	2.47	2019	2020	
Salehan M, 2016, DECIS SUPPORT SYST, V81, P30, DOI 10.1016/j.dss.2015.10.006, DOI	2016	2.32	2019	2020	
Abrahams AS, 2015, PROD OPER MANAG, V24, P975, DOI 10.1111/poms.12303, DOI	2015	2.07	2019	2020	
Calheiros AC, 2017, J HOSP MARKET MANAG, V26, P675, DOI 10.1080/19368623.2017.1310075, DOI	2017	2.04	2020	2021	

2005-2023年高被引文献：

Top 19 References with the Strongest Citation Bursts

References	Year	Strength	Begin	End	2005 - 2023
Ghose A, 2011, IEEE T KNOWL DATA EN, V23, P1498, DOI 10.1109/TKDE.2010.188, DOI	2011	3.3	2015	2016	
Abrahams AS, 2015, PROD OPER MANAG, V24, P975, DOI 10.1111/poms.12303, DOI	2015	4.37	2017	2019	
Berezina K, 2016, J HOSP MARKET MANAG, V25, P1, DOI 10.1080/19368623.2015.983631, DOI	2016	9.12	2018	2021	
Cantalops AS, 2014, INT J HOSP MANAG, V36, P41, DOI 10.1016/j.ijhm.2013.08.007, DOI	2014	3.42	2018	2019	
Xu X, 2016, INT J HOSP MANAG, V55, P57, DOI 10.1016/j.ijhm.2016.03.003, DOI	2016	8.01	2019	2021	
Xiang Z, 2015, INT J HOSP MANAG, V44, P120, DOI 10.1016/j.ijhm.2014.10.013, DOI	2015	7.43	2019	2020	
Schuckert M, 2015, INT J HOSP MANAG, V48, P143, DOI 10.1016/j.ijhm.2014.12.007, DOI	2015	4.73	2019	2020	
Salehan M, 2016, DECIS SUPPORT SYST, V81, P30, DOI 10.1016/j.dss.2015.10.006, DOI	2016	4.6	2019	2021	
Hong H, 2017, DECIS SUPPORT SYST, V102, P1, DOI 10.1016/j.dss.2017.06.007, DOI	2017	4.2	2019	2020	
Calheiros AC, 2017, J HOSP MARKET MANAG, V26, P675, DOI 10.1080/19368623.2017.1310075, DOI	2017	4.69	2020	2021	
Hu N, 2019, TOURISM MANAGE, V72, P417, DOI 10.1016/j.tourman.2019.01.002, DOI	2019	4.26	2020	2021	
Alaei AR, 2019, J TRAVEL RES, V58, P175, DOI 10.1177/0047287517747753, DOI	2019	3.81	2020	2023	
Cheng MM, 2019, INT J HOSP MANAG, V76, P58, DOI 10.1016/j.ijhm.2018.04.004, DOI	2019	3.08	2020	2023	
Guo Y, 2017, TOURISM MANAGE, V59, P467, DOI 10.1016/j.tourman.2016.09.009, DOI	2017	7.56	2021	2023	
Xiang Z, 2017, TOURISM MANAGE, V58, P51, DOI 10.1016/j.tourman.2016.10.001, DOI	2017	5.73	2021	2023	
Zhao YB, 2019, INT J HOSP MANAG, V76, P111, DOI 10.1016/j.ijhm.2018.03.017, DOI	2019	4.81	2021	2023	
Ahani A, 2019, J RETAIL CONSUM SERV, V51, P331, DOI 10.1016/j.jretconser.2019.06.014, DOI	2019	3.24	2021	2023	
Lee M, 2017, INT J CONTEMP HOSP M, V29, P762, DOI 10.1108/ijchm-10-2015-0626, 10.1108/IJCHM-10-2015-0626, DOI	2017	3.14	2021	2023	
Ahani A, 2019, INT J HOSP MANAG, V80, P52, DOI 10.1016/j.ijhm.2019.01.003, DOI	2019	3.02	2021	2023	

排序：高频共被引文献

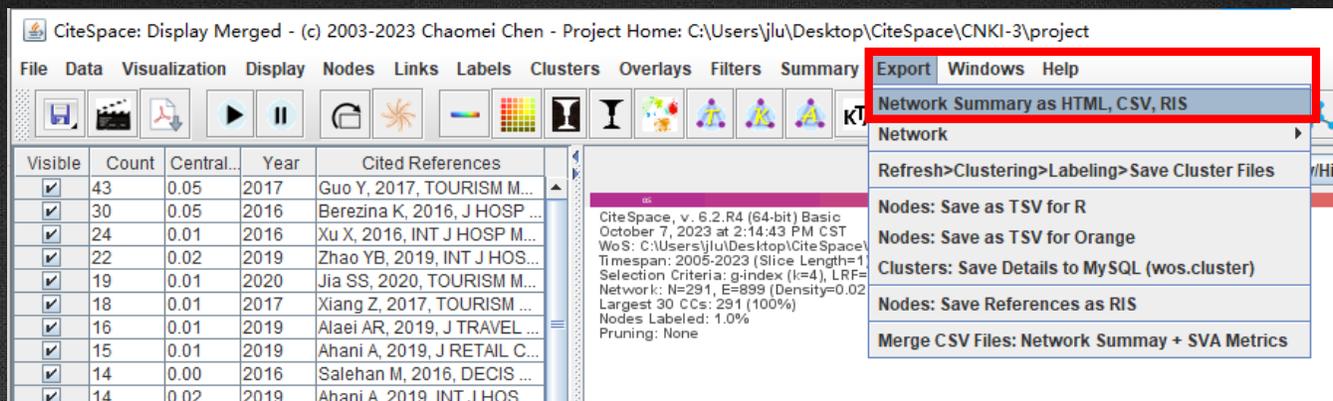
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<input checked="" type="checkbox"/>	27	0.09	2016	Berezina K, 2016, J HOSP ...
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<input checked="" type="checkbox"/>	21	0.09	2017	Xiang Z, 2017, TOURISM ...
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<input checked="" type="checkbox"/>	16	0.06	2018	Siering M, 2018, DECIS S...
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<input checked="" type="checkbox"/>	10	0.09	2016	Banerjee S, 2016, TOURI...
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重要文献

高中心性共被引文献

Visible	Count	Central.	Year	Cited References
<input checked="" type="checkbox"/>	13	0.19	2018	Gao BJ, 2018, TOURISM ...
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<input checked="" type="checkbox"/>	14	0.08	2016	Salehan M, 2016, DECIS ...
<input checked="" type="checkbox"/>	12	0.08	2019	Jeong B, 2019, INT J INFO...
<input checked="" type="checkbox"/>	10	0.08	2020	Berger J, 2020, J MARKET...
<input checked="" type="checkbox"/>	6	0.08	2018	Gavilan D, 2018, TOURIS...
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<input checked="" type="checkbox"/>	10	0.07	2019	Sezgen E, 2019, J AIR TR...
<input checked="" type="checkbox"/>	8	0.07	2016	Fang B, 2016, TOURISM M...
<input checked="" type="checkbox"/>	8	0.07	2019	Chang YC, 2019, INT J IN...
<input checked="" type="checkbox"/>	4	0.07	2020	Bi JW, 2020, TOURISM MA...
<input checked="" type="checkbox"/>	2	0.07	2017	Agag GM, 2017, J TRAVEL...
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<input checked="" type="checkbox"/>	6	0.06	2015	Schuckert M, 2015, J TRAV...
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<input checked="" type="checkbox"/>	8	0.05	2021	Gour A, 2021, INT J CONT...
<input checked="" type="checkbox"/>	8	0.05	2019	Tao S, 2019, ASIA PAC J T...

导出表格数据



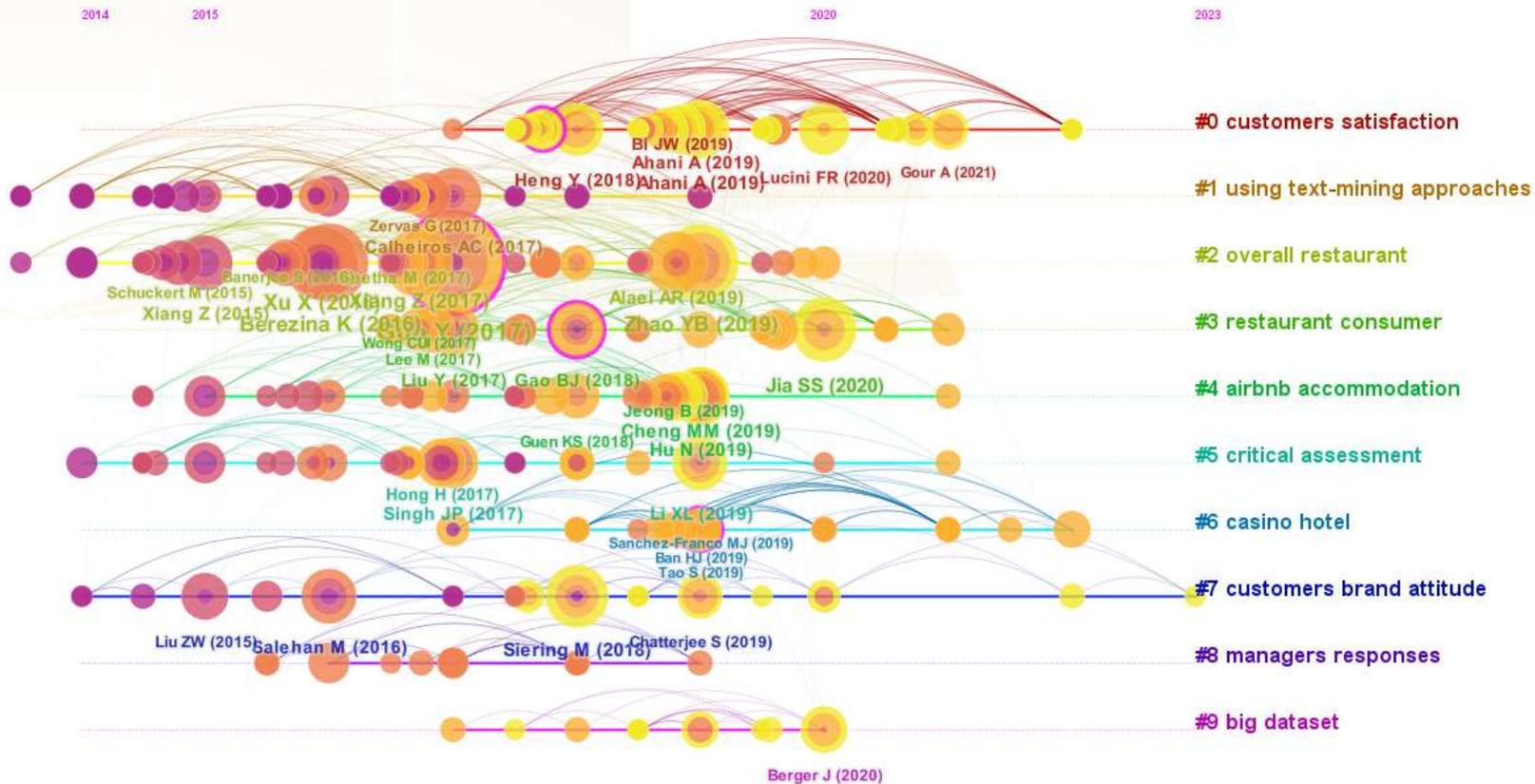
几个重要参数：
频率、突现度、
中心度和半衰期

CiteSpace - Summary Table (sorted by Σ)

Save/Show as HTML: network_summary.html Save as CSV Save as RIS

Freq	Burst	BurstBegin	BurstEnd	Degree	Centrality	Σ	PageRank	Label	Author	Year	Title	Source	Vol	Page	HalfLife	DOI	Cluster
13	0.00			43	0.19	1.00	0.00	Gao BJ (2...	Gao BJ	2018	...	TOURISM ...	V65	P176	2.5	10.1016/j.t...	
45	0.00			38	0.14	1.00	0.00	Guo Y (20...	Guo Y	2017	...	TOURISM ...	V59	P467	3.5	10.1016/j.t...	
21	0.00			33	0.09	1.00	0.00	Xiang Z (2...	Xiang Z	2017	...	TOURISM ...	V58	P51	3.5	10.1016/j.t...	
10	0.00			33	0.09	1.00	0.00	Banerjee ...	Banerjee S	2016	...	TOURISM ...	V53	P125	4.5	10.1016/j.t...	
8	0.00			29	0.12	1.00	0.00	Ban HJ (2...	Ban HJ	2019	...	SUSTAINA...	V11	P0	2.5	10.3390/s...	
14	0.00			28	0.07	1.00	0.00	Ahani A (2...	Ahani A	2019	...	INT J HOS...	V80	P52	2.5	10.1016/j.i...	
7	0.00			26	0.12	1.00	0.00	Jia S (2018)	Jia S	2018	...	INT J MAR...	V60	P561	3.5	10.1177/1...	
8	0.00			25	0.05	1.00	0.00	Gour A (20...	Gour A	2021	...	INT J CON...	V33	P490	0.5	10.1108/IJ...	
15	0.00			24	0.08	1.00	0.00	Cheng MM...	Cheng MM	2019	...	INT J HOS...	V76	P58	2.5	10.1016/j.i...	
8	0.00			24	0.07	1.00	0.00	Chang YC...	Chang YC	2019	...	INT J INF...	V48	P263	3.5	10.1016/j.i...	
11	0.00			23	0.07	1.00	0.00	Geetha M ...	Geetha M	2017	...	TOURISM ...	V61	P43	3.5	10.1016/j.t...	
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14	2.04	2020	2021	22	0.09	1.18	0.00	Calheiros ...	Calheiros ...	2017	...	J HOSP M...	V26	P675	3.5	10.1080/1...	
4	0.00			22	0.07	1.00	0.00	Bi JW (20...	Bi JW	2020	...	TOURISM ...	V77	P0	2.5	10.1016/j.t...	
24	3.40	2019	2021	21	0.09	1.34	0.00	Xu X (2016)	Xu X	2016	...	INT J HOS...	V55	P57	4.5	10.1016/j.i...	
27	0.00			21	0.09	1.00	0.00	Berezina ...	Berezina K	2016	...	J HOSP M...	V25	P1	4.5	10.1080/1...	
8	0.00			20	0.07	1.00	0.00	Fang B (2...	Fang B	2016	...	TOURISM ...	V52	P498	4.5	10.1016/j.t...	
2	0.00			20	0.06	1.00	0.00	Abubakar ...	Abubakar ...	2017	...	J HOSP T...	V31	P220	3.5	10.1016/j.j...	
9	0.00			19	0.03	1.00	0.00	Korfiatis N...	Korfiatis N	2019	...	EXPERT S...	V116	P472	1.5	10.1016/j...	
6	0.00			18	0.00	1.00	0.00	Ban HJ (2...	Ban HJ	2019	...	SUSTAINA...	V11	P0	2.5	10.3390/s...	
5	0.00			18	0.00	1.00	0.00	Kim HS (2...	Kim HS	2019	...	J MECH S...	V33	P2785	2.5	10.1007/s...	
6	2.48	2019	2020	18	0.06	1.15	0.00	Schuckert ...	Schuckert M	2015	...	J TRAVEL ...	V32	P608	4.5	10.1080/1...	
8	0.00			18	0.05	1.00	0.00	Tao S (20...	Tao S	2019	...	ASIA PAC ...	V24	P514	2.5	10.1080/1...	
25	0.00			17	0.03	1.00	0.00	Zhao YB (...)	Zhao YB	2019	...	INT J HOS...	V76	P111	1.5	10.1016/j.i...	
2	0.00			17	0.02	1.00	0.00	Agrawal S...	Agrawal SR	2022	...	J RETAIL ...	V67	P0	0.5	10.1016/j.j...	
5	0.00			17	0.04	1.00	0.00	Kim Hak...	Kim Hak...	2017	...	CULINAR...	V23	P257	4.5	10.20878/...	
19	0.00			17	0.01	1.00	0.00	Jia SS (20...	Jia SS	2020	...	TOURISM ...	V78	P0	1.5	10.1016/j.t...	
13	0.00			16	0.07	1.00	0.00	Singh JP (...)	Singh JP	2017	...	J BUS RES	V70	P346	2.5	10.1016/j.j...	
12	0.00			16	0.08	1.00	0.00	Jeong B (...)	Jeong B	2019	...	INT J INF...	V48	P280	3.5	10.1016/j.i...	

CiteSpace, v. 5.2.R4 (64-bit) Basic
 November 1, 2023 at 9:40:34 AM CST
 WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
 Timespan: 2019-2023 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=295, E=1211 (Density=0.0279)
 Largest 30 CCs: 295 (100%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.5951
 Weighted Mean Silhouette S=0.7867
 Harmonic Mean(Q, S)=0.6776



节点越大被引频次越高，可以知道高被引文献有哪些；右边的聚类标签反映了该领域有哪些主题，以及每个主题下文献的被引脉络情况。



二、WOS

第三步：新建项目

2. 作者共被引分析

Your Options

? Project Title: 在线评论数据挖掘

Time Frame: 2005-2023
Qualified Records: 499

How do you like to proceed?

Visualize Save As GraphML Cancel

CiteSpace 6.2.R4 (64-bit) Basic - (c) 2003-2023 Chaomei Chen - Home: C:\Users\jlu - ACA

File Projects Data Visualization Overlay Maps Analytics Network Text Preferences Tutorials Help

Web of Science

Projects

New 在线评论数据挖掘 More Actions ...

Project Home: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\project

Data Directory: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data

GO Stop Reset JVM Memory 1024 (MB) Used 13 %

Space Status

2013	g=19, k=8	279	19	57 / 130
2014	g=20, k=8	285	20	60 / 99
2015	g=24, k=8	483	24	72 / 170
2016	g=22, k=8	511	22	66 / 175
2017	g=35, k=8	956	35	105 / 365
2018	g=36, k=8	1270	36	108 / 290
2019	g=55, k=8	2159	55	165 / 904
2020	g=57, k=8	2421	57	171 / 1118
2021	g=74, k=8	4231	74	222 / 1607
2022	g=73, k=8	4218	73	219 / 1698
2023	g=59, k=8	3671	59	177 / 937

Process Reports

456 Article; Early Access
114 Article; Proceedings Paper

Distinct references [Valid]: 14894 100.0000%
Distinct references [Invalid]: 0 0.0000%

Parsing Time: 1 minutes 30 seconds
Total Run time: 8 seconds

Merged network: Nodes=280, Links=1492
Exclusion List: 0
Network modeling ends at Thu Sep 28 10:21:47 CST 2023.

Time Slicing

From 2005 JAN To 2023 DEC #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 Keyword Term Source Category

Reference Cited Author Cited Journal

Links

Strength Cosine Scope Within Slices

Selection Criteria

g-index Top N Top N%

The selection uses a modified g-index in each slice: $g^2 \leq k \sum_{i \leq g} c_i, k \in Z^+$

To include more or fewer nodes, increase or decrease the scale factor k = 8

Pruning Visualization

Pruning

Pathfinder Pruning sliced networks
 Minimum Spanning Tree Pruning the merged network

高频共被引作者

(排名靠前的是重要作者)

Visible	Count	Central..	Year	Cited Authors
<input checked="" type="checkbox"/>	364	0.51	2005	[ANONYMOUS]
<input checked="" type="checkbox"/>	151	0.23	2005	UNKNOWN
<input checked="" type="checkbox"/>	131	0.07	2014	BLEI DM
<input checked="" type="checkbox"/>	85	0.09	2015	LIU Y
<input checked="" type="checkbox"/>	72	0.09	2013	HU N
<input checked="" type="checkbox"/>	69	0.14	2011	CHEVALIER JA
<input checked="" type="checkbox"/>	64	0.06	2018	XIANG Z
<input checked="" type="checkbox"/>	62	0.07	2013	MUDAMBI SM
<input checked="" type="checkbox"/>	61	0.08	2019	XU X
<input checked="" type="checkbox"/>	59	0.10	2014	GHOSE A
<input checked="" type="checkbox"/>	53	0.03	2019	GUO Y
<input checked="" type="checkbox"/>	50	0.05	2011	PANG B
<input checked="" type="checkbox"/>	45	0.02	2012	LIU B
<input checked="" type="checkbox"/>	45	0.07	2018	BEREZINA K
<input checked="" type="checkbox"/>	40	0.08	2019	SCHUCKERT M
<input checked="" type="checkbox"/>	35	0.01	2019	FILIERI R
<input checked="" type="checkbox"/>	35	0.05	2014	ARCHAK N
<input checked="" type="checkbox"/>	34	0.01	2019	LI HY
<input checked="" type="checkbox"/>	34	0.02	2019	OLIVER RL
<input checked="" type="checkbox"/>	33	0.02	2017	CAMBRIA E
<input checked="" type="checkbox"/>	32	0.02	2015	DUAN WJ
<input checked="" type="checkbox"/>	29	0.01	2020	PARASURAMAN A
<input checked="" type="checkbox"/>	29	0.01	2019	HENNIG-THURAU T
<input checked="" type="checkbox"/>	28	0.01	2014	LEE TY
<input checked="" type="checkbox"/>	25	0.01	2021	BI JW
<input checked="" type="checkbox"/>	25	0.03	2011	DELLAROCAS C
<input checked="" type="checkbox"/>	25	0.01	2017	BERGER J
<input checked="" type="checkbox"/>	24	0.02	2019	YE Q
<input checked="" type="checkbox"/>	24	0.03	2019	MORO S
<input checked="" type="checkbox"/>	24	0.05	2010	HU M
<input checked="" type="checkbox"/>	23	0.01	2021	ZHAO YB
<input checked="" type="checkbox"/>	23	0.03	2017	MIKOLOV T
<input checked="" type="checkbox"/>	23	0.00	2020	LEE S
<input checked="" type="checkbox"/>	23	0.02	2020	KIM J
<input checked="" type="checkbox"/>	23	0.01	2011	TURNERY PD
<input checked="" type="checkbox"/>	23	0.01	2014	CHEN YB
<input checked="" type="checkbox"/>	23	0.05	2019	BANERJEE S
<input checked="" type="checkbox"/>	23	0.01	2014	FELDMAN R

CiteSpace, v. 6.2.R4 (64-bit) Basic
September 28, 2023 at 10:20:58 AM CST
WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
Timespan: 2005-2023 (Slice Length=1)
Selection Criteria: g-index (k=B), LRF=3.0, L/N=10, LBY=5, e=1.0
Network: N=280, E=1492 (Density=0.0382)
Largest CCs: 280 (100%)
Nodes Labeled: 1.0%
Pruning: None



二、WOS

第三步：新建项目

3. 关键词共现分析

The screenshot shows the CiteSpace 6.2.R4 Basic software interface. The main window is titled "CiteSpace 6.2.R4 (64-bit) Basic - (c) 2003-2023 Chaomei Chen - Home: C:\Users\jlu - CO-DESC". The interface is divided into several panels:

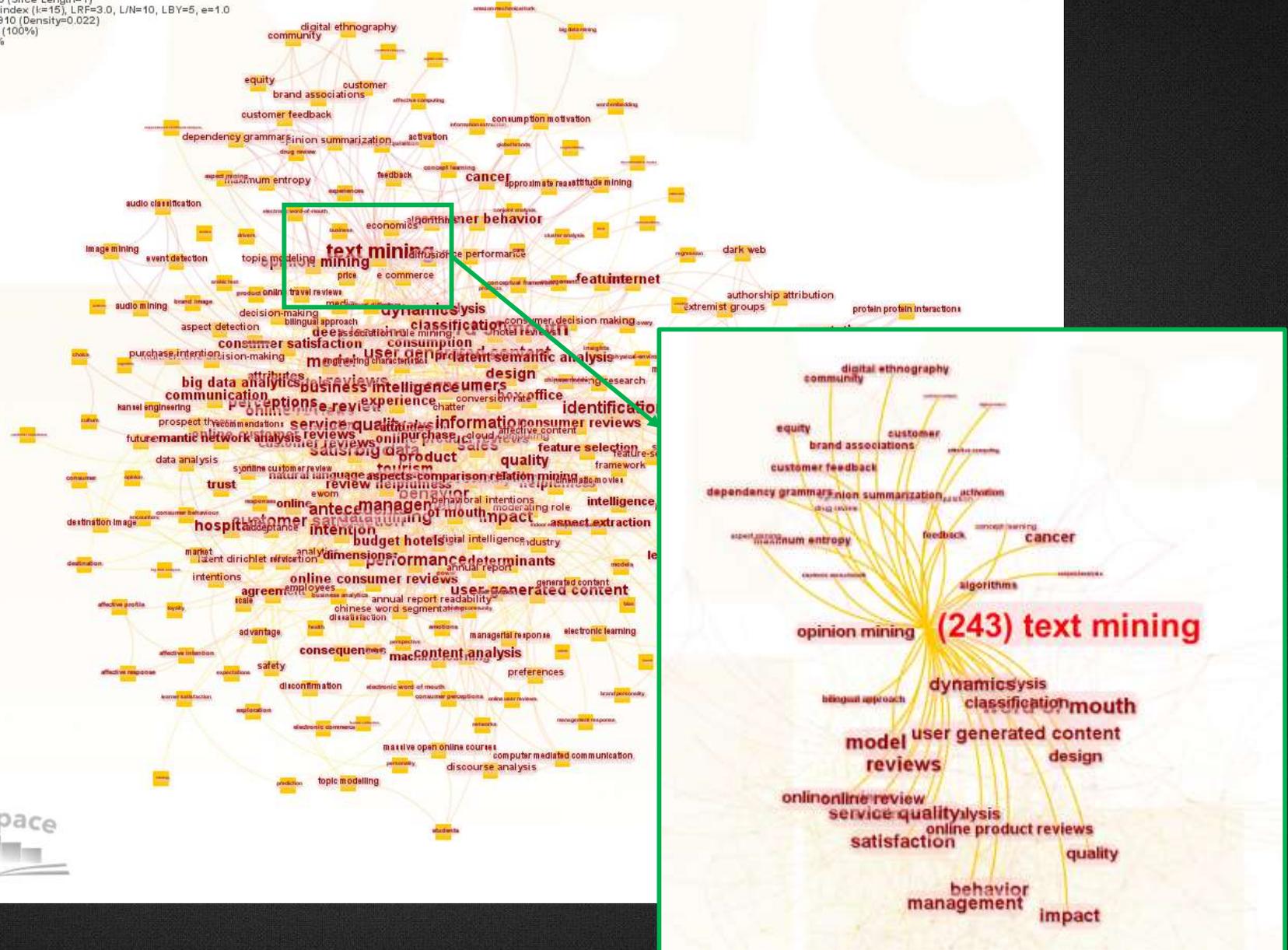
- Web of Science:** Contains project configuration fields. The "GO!" button is circled in red. The "Time Slicing" section (also circled in red) shows "From 2005 JAN To 2023 DEC #Years Per Slice 1".
- Text Processing:** Includes "Term Source" with checkboxes for Title, Abstract, Author Keywords (DE), and Keywords Plus (ID). The "Term Type" section has radio buttons for Noun Phrases and Burst Terms, along with "Detect Bursts" and "Entropy" buttons.
- Node Types:** Features radio buttons for Author, Institution, Country, Keyword (selected and circled in red), Term, Source, and Category. There are also radio buttons for Reference, Cited Author, and Cited Journal.
- Links:** Shows "Strength" set to "Cosine" and "Scope" set to "Within Slices".
- Selection Criteria:** Includes "g-index", "Top N", and "Top N%" tabs. A text box contains the selection criteria formula: $g^2 < k \sum_{i \in g} c_i k \in Z^+$. Below it, a note says "To include more or fewer nodes, increase or decrease the scale factor k = 15".
- Pruning:** Has "Pruning" and "Visualization" tabs. Under "Pruning", there are checkboxes for "Pathfinder", "Minimum Spanning Tree", "Pruning sliced networks", and "Pruning the merged network".
- Space Status:** A table showing data from 2013 to 2023.
- Process Reports:** Displays summary statistics like "Distinct references [Valid]: 21126 98.5446%" and "Parsing Time: 2 minutes 35 seconds".

Year	g	k	g	k	g	k
2013	g=16	k=15	42	16	39 / 39	
2014	g=20	k=15	63	20	47 / 47	
2015	g=21	k=15	71	21	49 / 49	
2016	g=23	k=15	83	23	69 / 85	
2017	g=35	k=15	163	35	105 / 138	
2018	g=44	k=15	225	44	132 / 210	
2019	g=65	k=15	313	65	195 / 606	
2020	g=68	k=15	346	68	204 / 635	
2021	g=85	k=15	510	85	255 / 882	
2022	g=90	k=15	543	90	270 / 962	
2023	g=75	k=15	499	75	225 / 664	

高频关键词

Visible	Count	Central...	Year	Keywords
<input checked="" type="checkbox"/>	243	0.37	2007	text mining
<input checked="" type="checkbox"/>	127	0.06	2014	online reviews
<input checked="" type="checkbox"/>	125	0.09	2014	sentiment analysis
<input checked="" type="checkbox"/>	118	0.14	2011	word of mouth
<input checked="" type="checkbox"/>	72	0.09	2012	reviews
<input checked="" type="checkbox"/>	71	0.10	2013	impact
<input checked="" type="checkbox"/>	65	0.07	2013	customer satisfaction
<input checked="" type="checkbox"/>	64	0.09	2011	model
<input checked="" type="checkbox"/>	58	0.04	2017	satisfaction
<input checked="" type="checkbox"/>	54	0.03	2017	social media
<input checked="" type="checkbox"/>	40	0.02	2016	big data
<input checked="" type="checkbox"/>	36	0.03	2016	service quality
<input checked="" type="checkbox"/>	35	0.05	2017	online review
<input checked="" type="checkbox"/>	33	0.04	2019	hospitality
<input checked="" type="checkbox"/>	32	0.05	2011	information
<input checked="" type="checkbox"/>	30	0.07	2017	quality
<input checked="" type="checkbox"/>	29	0.02	2019	experience
<input checked="" type="checkbox"/>	29	0.07	2012	sales
<input checked="" type="checkbox"/>	29	0.03	2018	product
<input checked="" type="checkbox"/>	29	0.04	2010	opinion mining
<input checked="" type="checkbox"/>	27	0.05	2016	performance
<input checked="" type="checkbox"/>	26	0.10	2013	behavior
<input checked="" type="checkbox"/>	25	0.02	2017	machine learning
<input checked="" type="checkbox"/>	24	0.01	2018	tourism
<input checked="" type="checkbox"/>	23	0.02	2019	perceptions
<input checked="" type="checkbox"/>	23	0.03	2019	ratings
<input checked="" type="checkbox"/>	22	0.01	2017	online
<input checked="" type="checkbox"/>	21	0.04	2011	design
<input checked="" type="checkbox"/>	21	0.08	2011	consumer reviews
<input checked="" type="checkbox"/>	19	0.06	2016	user generated content
<input checked="" type="checkbox"/>	18	0.02	2020	helpfulness
<input checked="" type="checkbox"/>	18	0.03	2018	intention
<input checked="" type="checkbox"/>	18	0.03	2012	consumers

CiteSpace, v. 6.2.R4 (64-bit) Basic
 September 28, 2023 at 1:22:07 PM CST
 WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
 Timespan: 2005-2023 (Slice Length=1)
 Selection Criteria: g-index (k=15), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=288, E=910 (Density=0.022)
 Largest 30 CCs: 288 (100%)
 Nodes Labeled: 1.0%
 Pruning: Pathfinder



二、WOS

第三步：新建项目

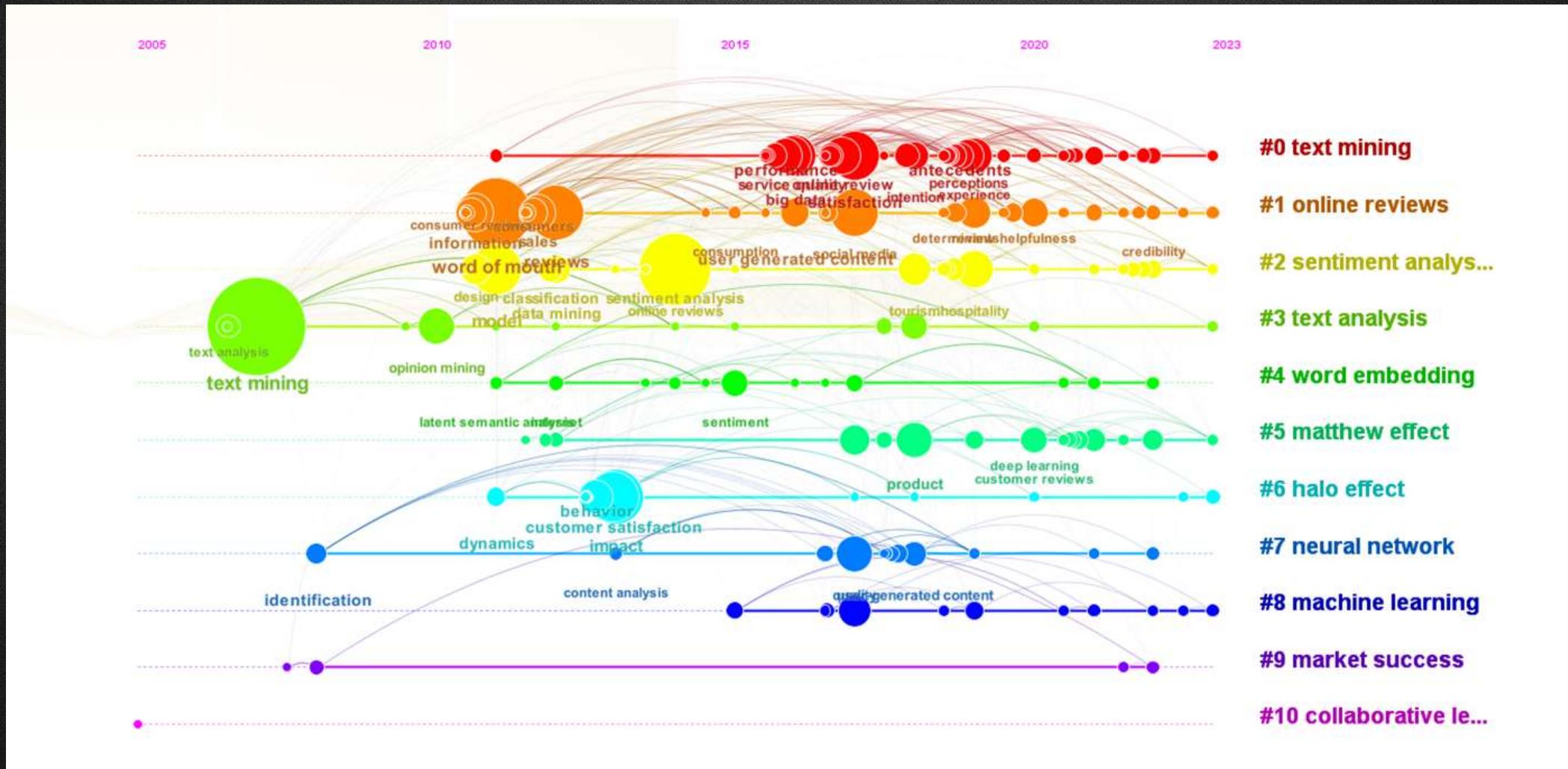
4. 关键词时间线图

Summary of Clusters - terms from descriptors

聚类的详细信息 Save/Show as HTML: cluster_summary.html Save Label Terms as a Whitelist

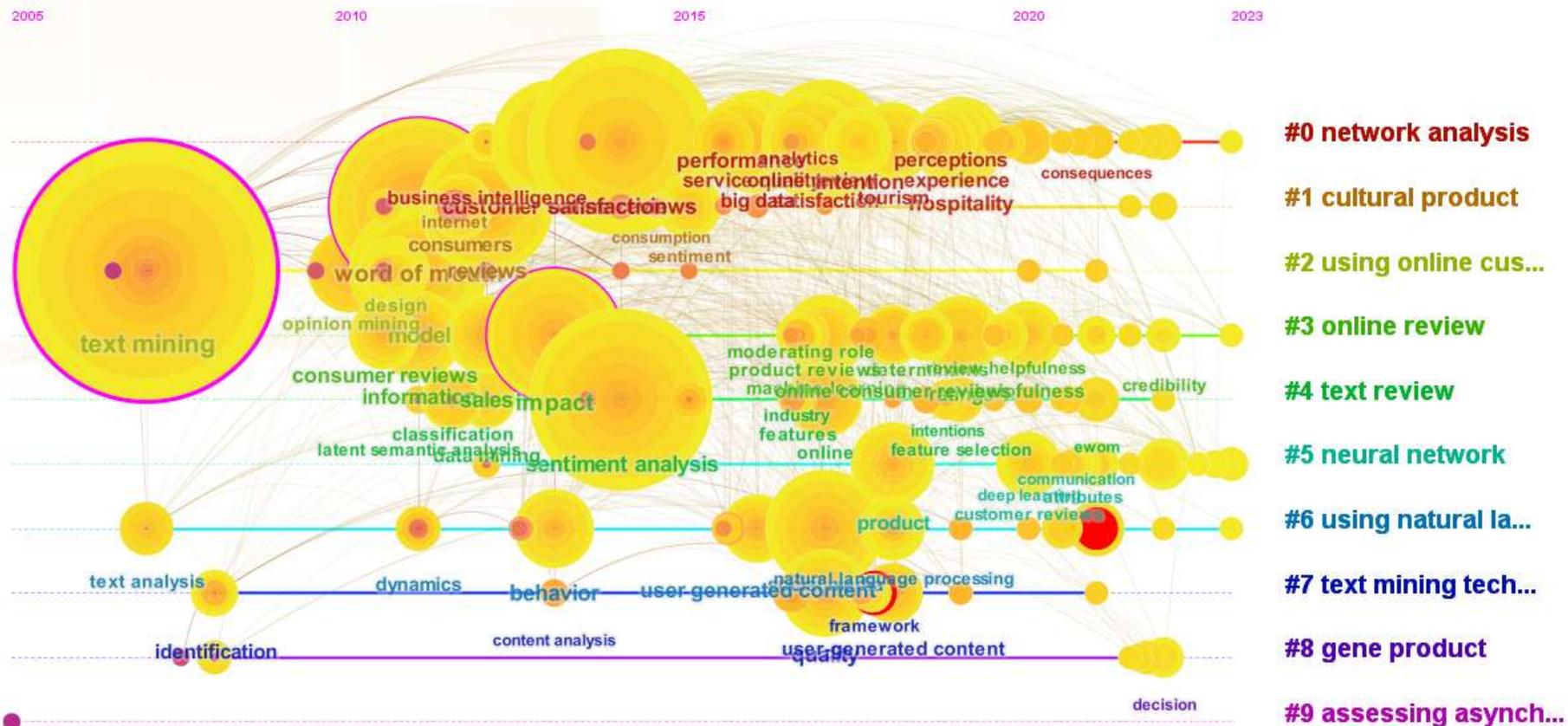
Select	Cluster ID	Size	Silhouette	mean(Year)	Top Terms (LSI)	Top Terms (log-likeliho...	Terms (mutual informat...
<input type="checkbox"/>	0	53	0.653	2019	text mining; online revie...	semantic network analy...	team brand image (0.6...
<input type="checkbox"/>	1	49	0.82	2016	text mining; online revie...	review helpfulness (16...	regression analysis (0...
<input type="checkbox"/>	2	36	0.729	2016	sentiment analysis; onl...	latent dirichlet allocatio...	smartphone (1.02); ada...
<input type="checkbox"/>	3	26	0.874	2012	text mining; text analysi...	natural language proce...	information technology ...
<input type="checkbox"/>	4	22	0.761	2016	word embedding; text cl...	games (14.33, 0.001); ...	systems biology (0.09);...
<input type="checkbox"/>	5	21	0.866	2019	text mining; matthew eff...	data analysis (10.71, 0...	tabu search (0.28); em...
<input type="checkbox"/>	6	20	0.868	2015	text mining; matthew eff...	customer satisfaction (...	hotel attributes (0.39); o...
<input type="checkbox"/>	7	20	0.675	2017	text mining; neural netw...	user-generated content...	brand perceptual map (...
<input type="checkbox"/>	8	14	0.867	2019	machine learning; text ...	machine learning (19.2...	online learning platfor...
<input type="checkbox"/>	9	12	0.988	2011	market success; purch...	annotation (10.04, 0.00...	text mining (0.08); senti...
<input type="checkbox"/>	10	5	1	2005	collaborative learning; c...	collaborative learning (...	text mining (0.1); senti...

- **关键词时间线图**：相同聚类的关键词在同一水平线上。关键词出现的时间置于视图的最上方，越往右时间越近。关键词越多，代表聚类领域越重要；还可以得到各个类的关键词的时间跨度，以及一个特定聚类的兴起，繁荣以及衰落过程，从而反应聚类所反映的研究领域的时间特征。



CiteSpace, v. 6.2.R4 (64-bit) Basic
 October 8, 2023 at 2:19:06 PM CST
 WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
 Timespan: 2005-2023 (Slice Length=1)
 Selection Criteria: g-index (k=15), LRF=3.0, L/N=10, LB=5, e=1.0
 Network: N=288, E=1563 (Density=0.0378)
 Largest 30 CCs: 288 (100%)
 Nodes Labeled: 1.0%
 Pruning: None
 Modularity Q=0.385
 Weighted Mean Silhouette S=0.7255
 Harmonic Mean(Q, S)=0.503

把节点切换成年轮图来进行显示，紫色的圈代表有高中介中心性，红色的节点表示具有突现性。



File Data Visualization Display Nodes Links Labels Clusters Overlays Filters Summary Export Windows Help

Find Clusters Ctrl-C

- Cluster Labels: Extraction
- Cluster Labels: Display
- Visual Encoding: Advanced Settings
- Summary Table | Whitelists
- Show Clusters By IDs
- Show the Largest K Clusters
- Set the Smallest Size of a Cluster to Show
- Filter Out Small Clusters
- Show Convex Hull
- Find Clusters' k-Cores
- Show Clusters' k-Cores
- Clusters' k-Cores: Background Color (Cluster)
- Clusters' k-Cores: Highlight k >= m
- Clusters' k-Cores: Maximum Layers

Cluster Exploration

- Save Cluster Information
- Concept Tree of Citation Contexts (MA)
- Cluster Explorer
- Show Cluster Dependencies

Layout Adjustment

- Optimize Layout I
- Optimize Layout II
- Cluster Move Mode

- List Top Ranked Terms per Cluster by LSA
- View Similarity Networks of Citing Terms (VSM)
- View Citing Networks to Clusters (LSA)

Expectation Maximization (EM)

- Set the Maximum Number of LSI Terms to display
- Set the Maximum Number of LLR Terms to display

Summarize a Single Cluster

- Set Citation Threshold
- Select Cluster-Summarizing Sentences

Visible	Count	Central...	Year	Keywords
<input checked="" type="checkbox"/>	243	0.37	2007	text mining
<input checked="" type="checkbox"/>	127	0.06	2014	online reviews
<input checked="" type="checkbox"/>	125	0.09	2014	sentiment analysis
<input checked="" type="checkbox"/>	118	0.14	2011	word of mouth
<input checked="" type="checkbox"/>	72	0.09	2012	reviews
<input checked="" type="checkbox"/>	71	0.10	2013	impact
<input checked="" type="checkbox"/>	65	0.07	2013	customer satisfaction
<input checked="" type="checkbox"/>	64	0.09	2011	model
<input checked="" type="checkbox"/>	58	0.04	2017	satisfaction
<input checked="" type="checkbox"/>	54	0.03	2017	social media
<input checked="" type="checkbox"/>	40	0.02	2016	big data
<input checked="" type="checkbox"/>	36	0.03	2016	service quality
<input checked="" type="checkbox"/>	35	0.05	2017	online review
<input checked="" type="checkbox"/>	33	0.04	2019	hospitality
<input checked="" type="checkbox"/>	32	0.05	2011	information
<input checked="" type="checkbox"/>	30	0.07	2017	quality
<input checked="" type="checkbox"/>	29	0.02	2019	experience
<input checked="" type="checkbox"/>	29	0.07	2012	sales
<input checked="" type="checkbox"/>	29	0.03	2018	product
<input checked="" type="checkbox"/>	29	0.04	2010	opinion mining
<input checked="" type="checkbox"/>	27	0.05	2016	performance
<input checked="" type="checkbox"/>	26	0.10	2013	behavior
<input checked="" type="checkbox"/>	25	0.02	2017	machine learning
<input checked="" type="checkbox"/>	24	0.01	2018	tourism
<input checked="" type="checkbox"/>	23	0.02	2019	perceptions
<input checked="" type="checkbox"/>	23	0.03	2019	ratings
<input checked="" type="checkbox"/>	22	0.01	2017	online
<input checked="" type="checkbox"/>	21	0.04	2011	design
<input checked="" type="checkbox"/>	21	0.08	2011	consumer reviews
<input checked="" type="checkbox"/>	19	0.06	2016	user generated content
<input checked="" type="checkbox"/>	18	0.02	2020	helpfulness
<input checked="" type="checkbox"/>	18	0.03	2018	intention
<input checked="" type="checkbox"/>	18	0.03	2012	consumers
<input checked="" type="checkbox"/>	17	0.08	2012	data mining
<input checked="" type="checkbox"/>	16	0.02	2019	antecedents
<input checked="" type="checkbox"/>	15	0.02	2020	deep learning
<input checked="" type="checkbox"/>	15	0.05	2015	sentiment
<input checked="" type="checkbox"/>	15	0.01	2018	natural language process
<input checked="" type="checkbox"/>	15	0.02	2020	customer reviews
<input checked="" type="checkbox"/>	14	0.02	2012	classification
<input checked="" type="checkbox"/>	14	0.02	2016	management
<input checked="" type="checkbox"/>	14	0.03	2018	user-generated content

自定义显示聚类的数量：
Clusters—show clusters by IDs—输入聚类编号

Input

Enter the IDs of clusters to show (Use blank to show all):

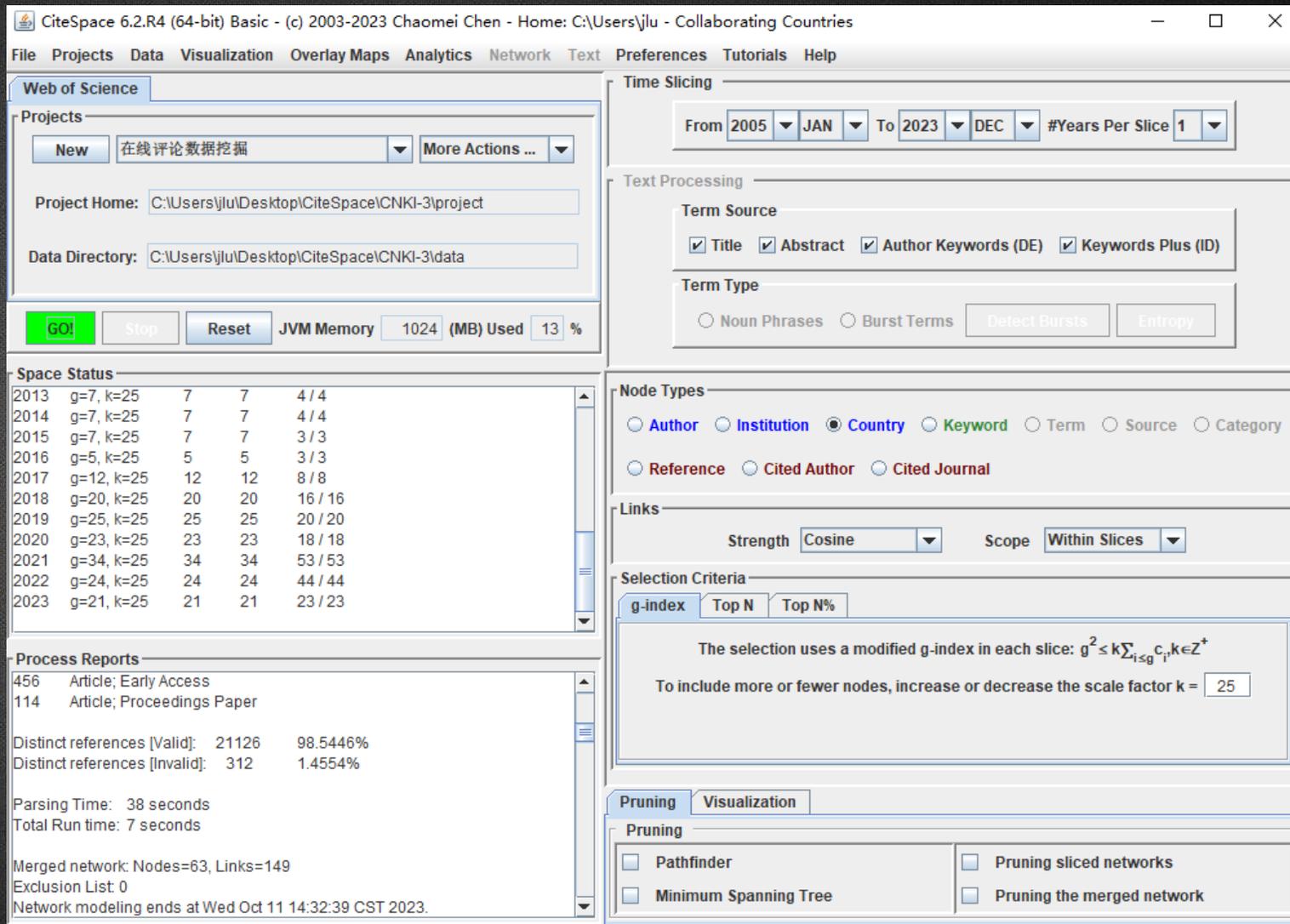
1,3,5,7

确定 取消

二、WOS

第三步：新建项目

5. 国家合作分析



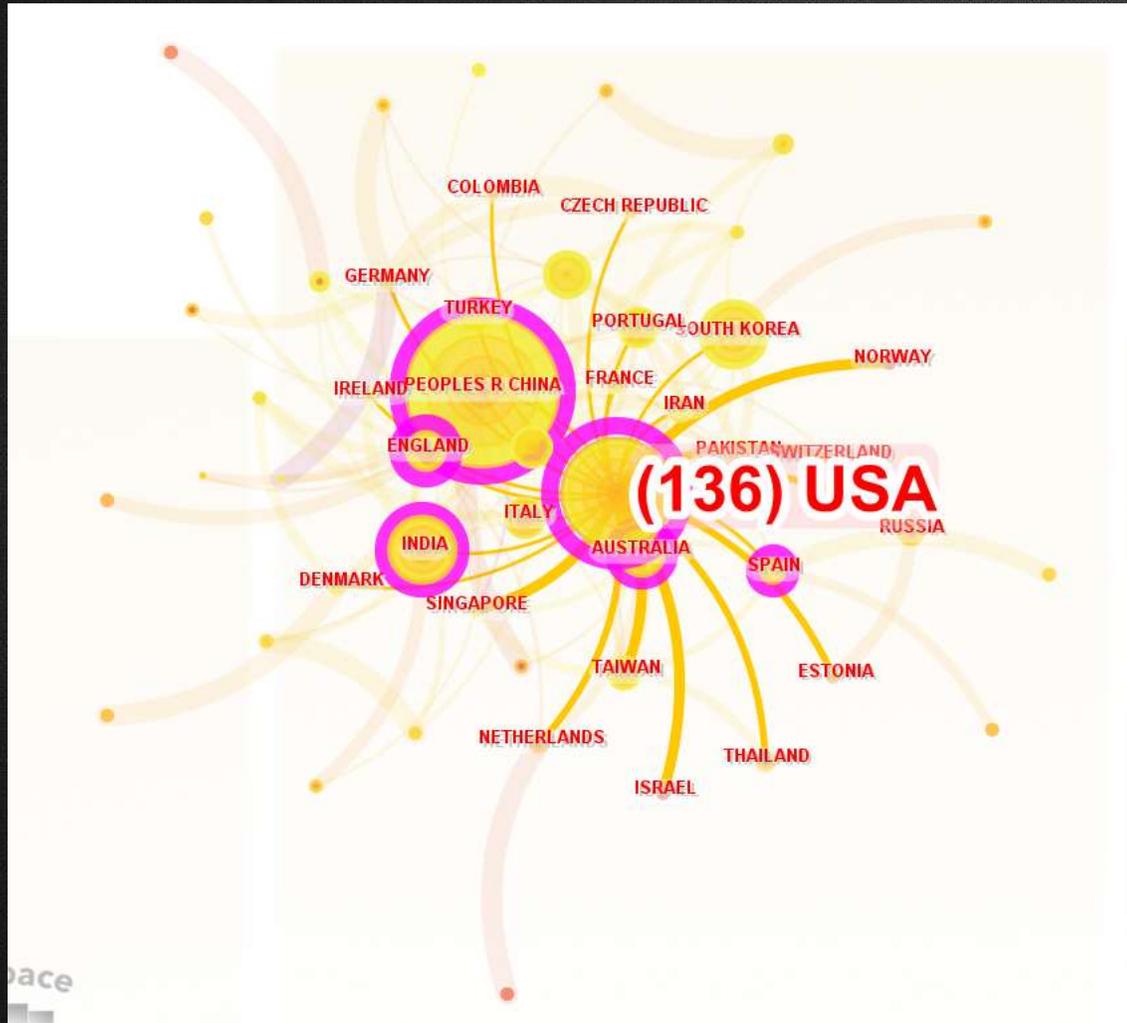
CiteSpace, v. 6.2.R4 (64-bit) Basic
 October 11, 2023 at 2:38:10 PM CST
 WoS: C:\Users\jlu\Desktop\CiteSpace\CNKI-3\data
 Timespan: 2005-2023 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LB=5, e=1.0
 Network: N=63, E=149 (Density=0.0763)
 Largest CCs: 63 (100%)
 Nodes Labeled: 1.0%
 Pruning: None

调节阈值、节点大小、节点标签大小和节点连线透明度



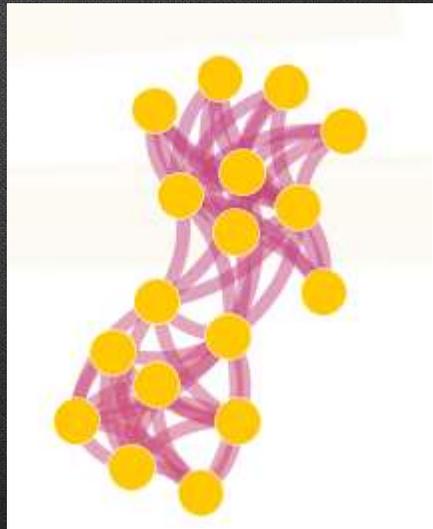
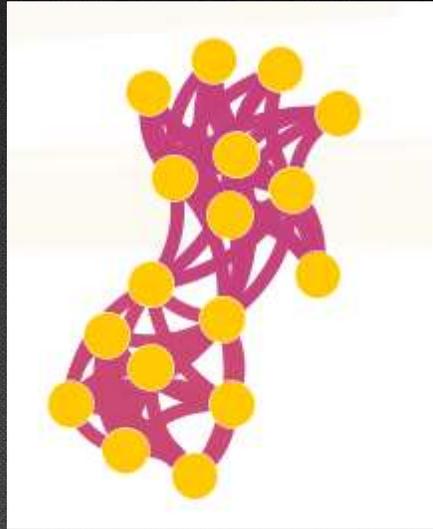
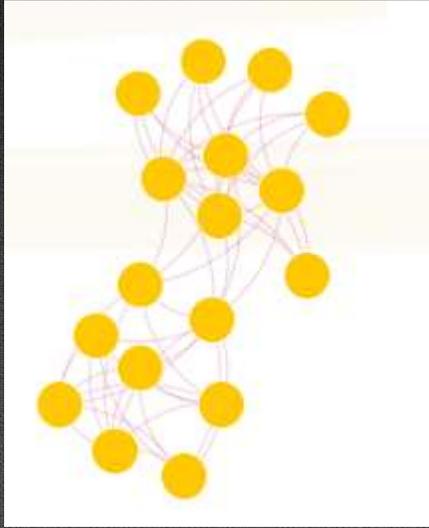
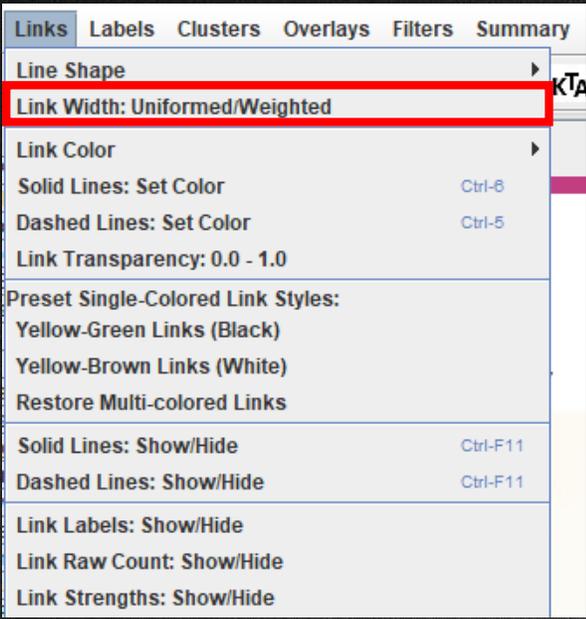
Visible	Count	Central...	Year	Countries
<input checked="" type="checkbox"/>	173	0.23	2009	PEOPLES R CHINA
<input checked="" type="checkbox"/>	136	0.42	2005	USA
<input checked="" type="checkbox"/>	49	0.08	2013	SOUTH KOREA
<input checked="" type="checkbox"/>	35	0.12	2015	INDIA
<input checked="" type="checkbox"/>	28	0.27	2015	ENGLAND
<input checked="" type="checkbox"/>	23	0.00	2013	PORTUGAL
<input checked="" type="checkbox"/>	22	0.06	2018	SAUDI ARABIA
<input checked="" type="checkbox"/>	21	0.11	2019	AUSTRALIA
<input checked="" type="checkbox"/>	21	0.01	2015	TAIWAN
<input checked="" type="checkbox"/>	14	0.05	2020	MALAYSIA
<input checked="" type="checkbox"/>	13	0.04	2014	ITALY
<input checked="" type="checkbox"/>	13	0.02	2018	IRAN
<input checked="" type="checkbox"/>	12	0.10	2016	SPAIN
<input checked="" type="checkbox"/>	12	0.02	2009	SINGAPORE
<input checked="" type="checkbox"/>	11	0.02	2018	TURKEY
<input checked="" type="checkbox"/>	11	0.06	2006	GERMANY
<input checked="" type="checkbox"/>	8	0.05	2018	FRANCE
<input checked="" type="checkbox"/>	7	0.00	2019	INDONESIA
<input checked="" type="checkbox"/>	7	0.00	2019	PAKISTAN
<input checked="" type="checkbox"/>	6	0.00	2017	CANADA
<input checked="" type="checkbox"/>	5	0.00	2006	SWEDEN
<input checked="" type="checkbox"/>	5	0.06	2019	DENMARK
<input checked="" type="checkbox"/>	4	0.00	2017	GREECE
<input checked="" type="checkbox"/>	4	0.00	2018	RUSSIA
<input checked="" type="checkbox"/>	3	0.00	2010	THAILAND
<input checked="" type="checkbox"/>	3	0.05	2014	QATAR
<input checked="" type="checkbox"/>	3	0.05	2013	NETHERLANDS

节点标签前的数字表示国家或地区出现的次数，节点之间的连线表示国家或地区间的合作，连线颜色表示合作的时间，连线越粗表示合作越密切。





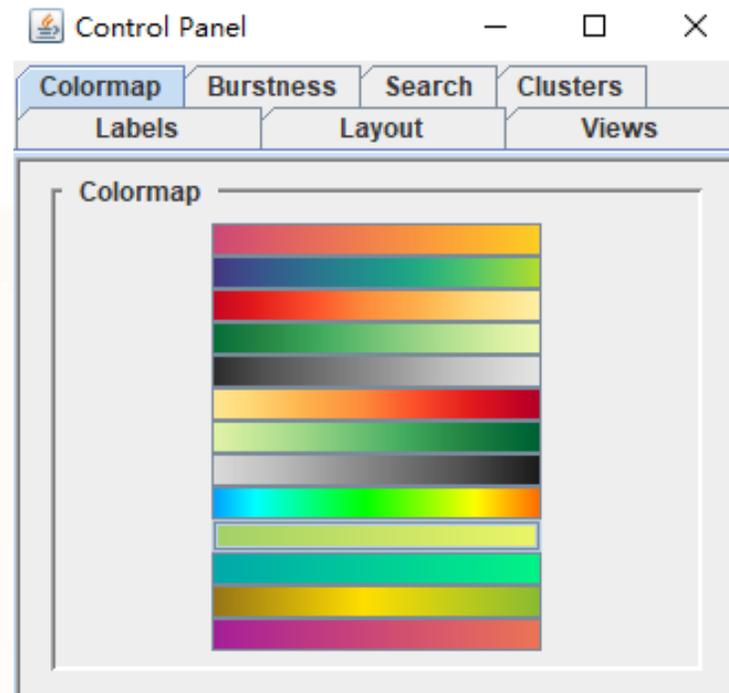
调整连线宽度及透明度



CiteSpace, v. 6.2.R4 (64-bit) Basic
 October 11, 2023 at 2:38:10 PM CST
 WoS: C:\Users\jju\Desktop\CiteSpace\CNKI-3\data
 Timespan: 2005-2023 (Slice Length=1)
 Selection Criteria: g-index (k=25), LRF=3.0, L/N=10, LBY=5, e=1.0
 Network: N=63, E=149 (Density=0.0763)
 Largest 30 CCs: 63 (100%)
 Nodes Labeled: 1.0%
 Pruning: None



切换配色方案之后的效果，连线的颜色更加清晰直观，颜色越鲜艳，表示年份越近。



延伸学习：

《citespace科学与图谱》讲解视频

从理论到实操，结合案例，讲解如何使用citespace，并且提出切实建议，如何获取更有效的数据，如何作出更深刻的分析等。<https://space.bilibili.com/508721901/channel/collectiondetail?sid=496360&ctype=0>

《citespace：科技文本挖掘及可视化》

两位老师合著的书籍，包含软件简介、数据准备、软件界面、软件功能模块详解等。适合边阅读边实操，理解更高效！<https://citespace.lanzouv.com/iollm013uu1g>



《citespace中文版指南》

由两位老师翻译的中文版指南，更适合解决实操中的问题，快速上手。

<https://max.book118.com/html/2019/0610/8127004113002027.shtm>

公众号：科学知识前沿图谱

分享各种科学知识图谱的操作技巧，解决常见问题，可以快速获取各类软件书籍的下载链接。

陈超美&李杰个人博客

两位老师都在【科学网】开通了个人博客，不定期发表关于citespace的博文，还可以留言向老师提问。

<https://blog.sciencenet.cn/home.php?mod=space&uid=496649&do=blog&view=me&from=space>

<https://blog.sciencenet.cn/home.php?mod=space&uid=554179&do=blog&view=me&from=space>



感谢聆听！

汇报人：马玉 2023.11.23

