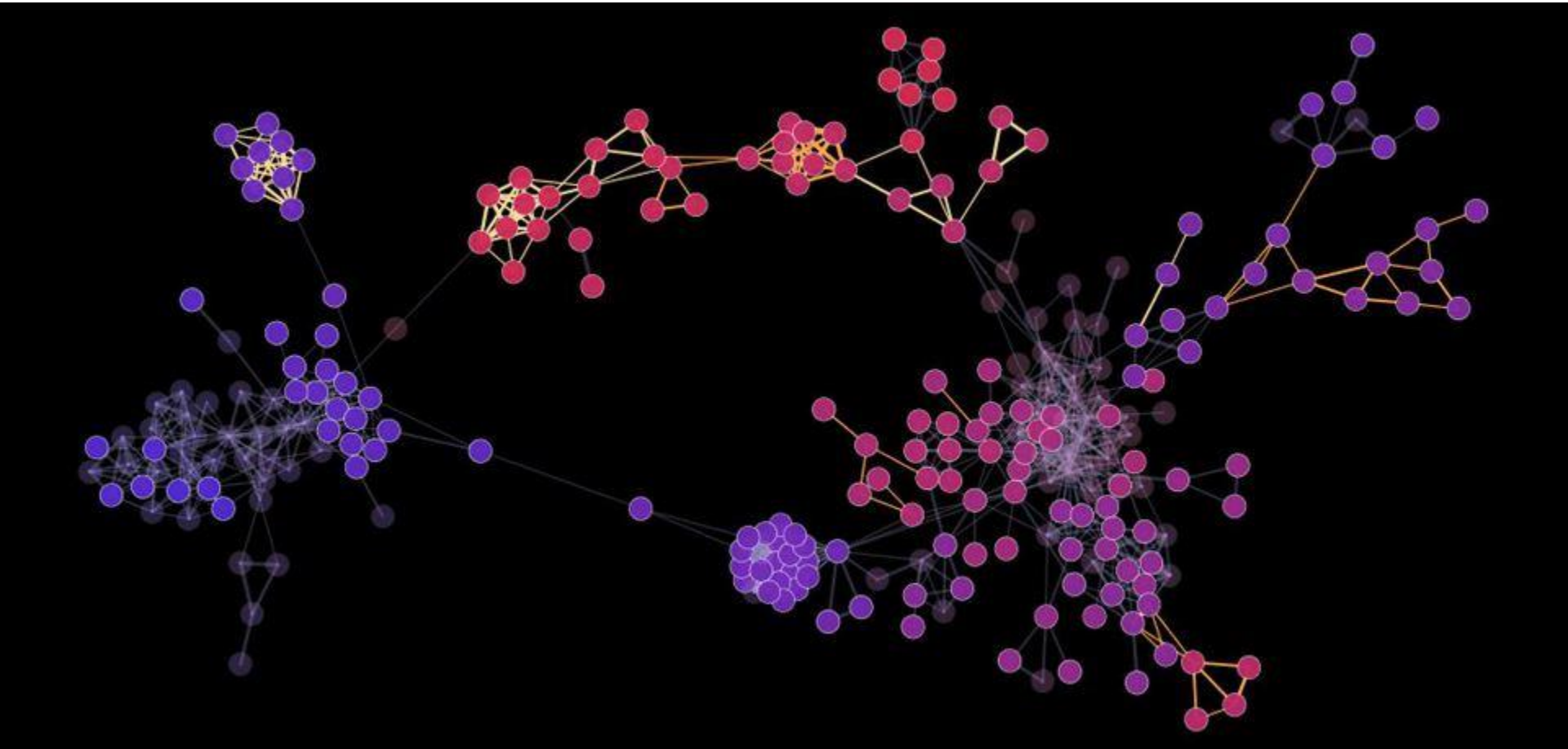
Tutorial

3

CiteSpace: Visualizing and Analyzing the Structure and Dynamics of Scientific Fields

Chaomei Chen



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regenerative medicine in Topic

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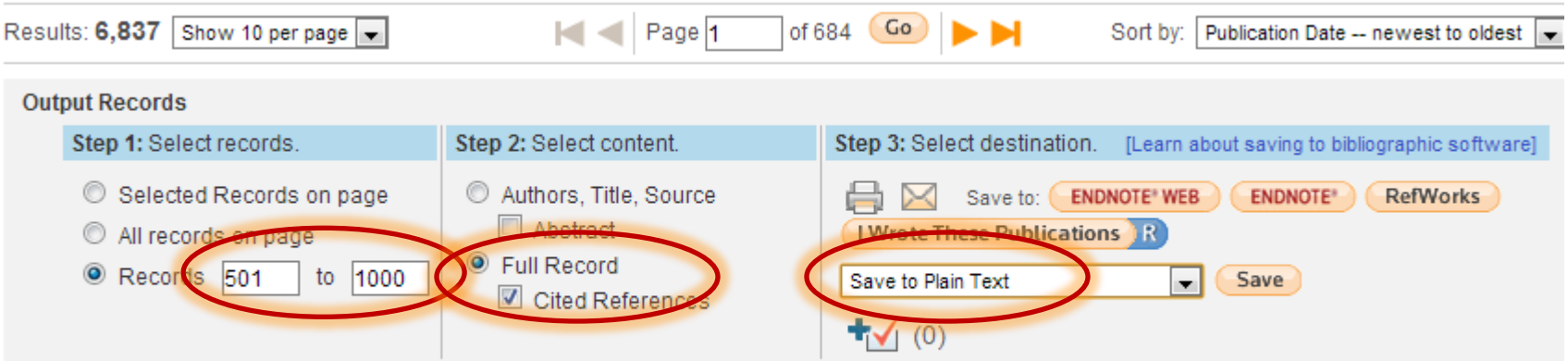
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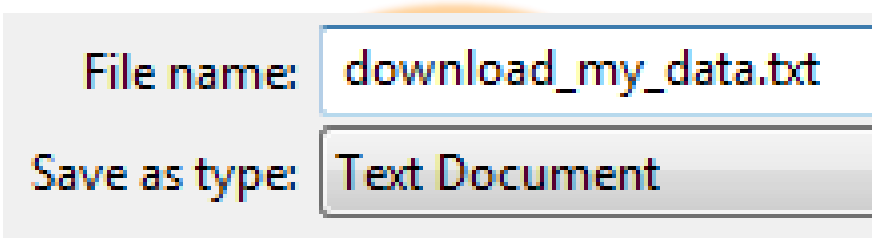


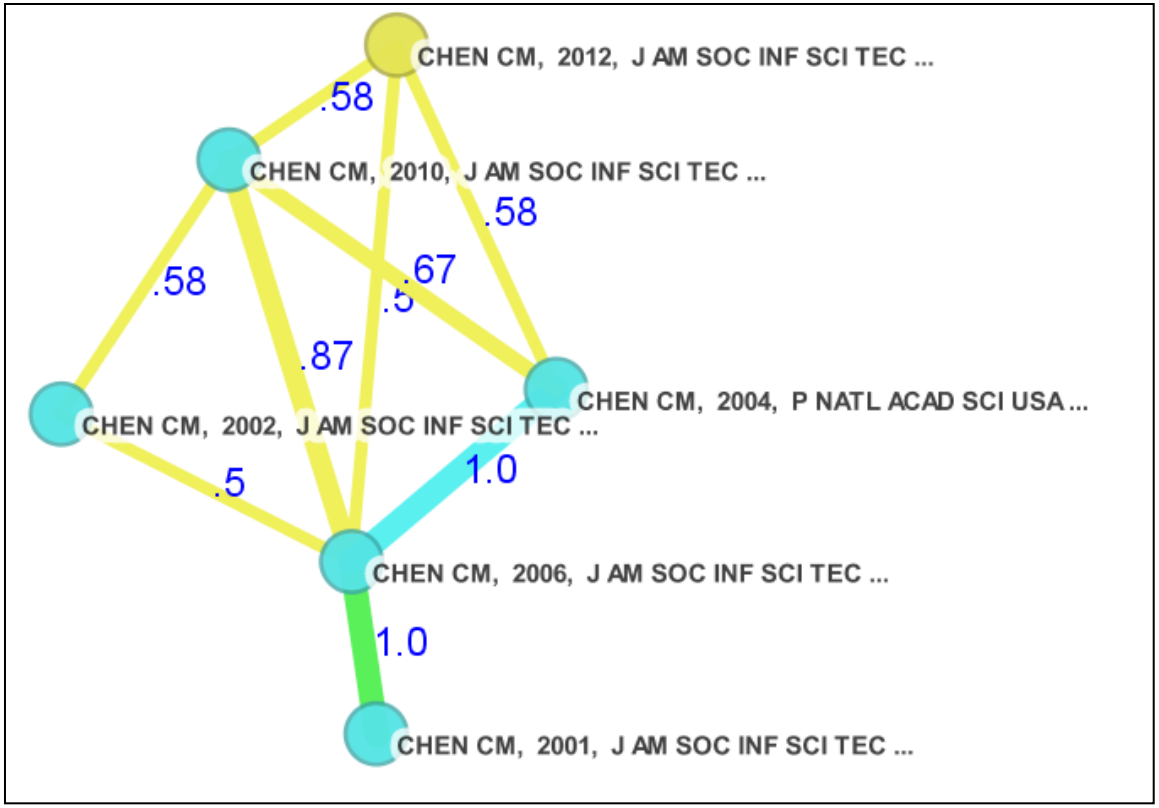
GETTING STARTED

Sample Datasets
A:
http://cluster.ischool.drexel.edu/~cchen/citespace/tutorials/issi2013/datasets/download_toy.txt

B:
http://cluster.ischool.drexel.edu/~cchen/citespace/tutorials/issi2013/datasets/data_merged_735.zip

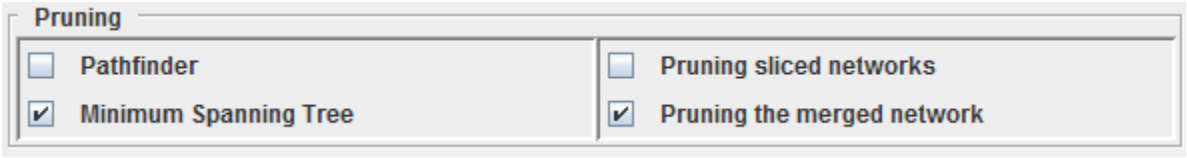
1. Create a new project in CiteSpace, including one project folder and one data folder (do not use the same folder)
2. Download the above test data file to the data folder of your project

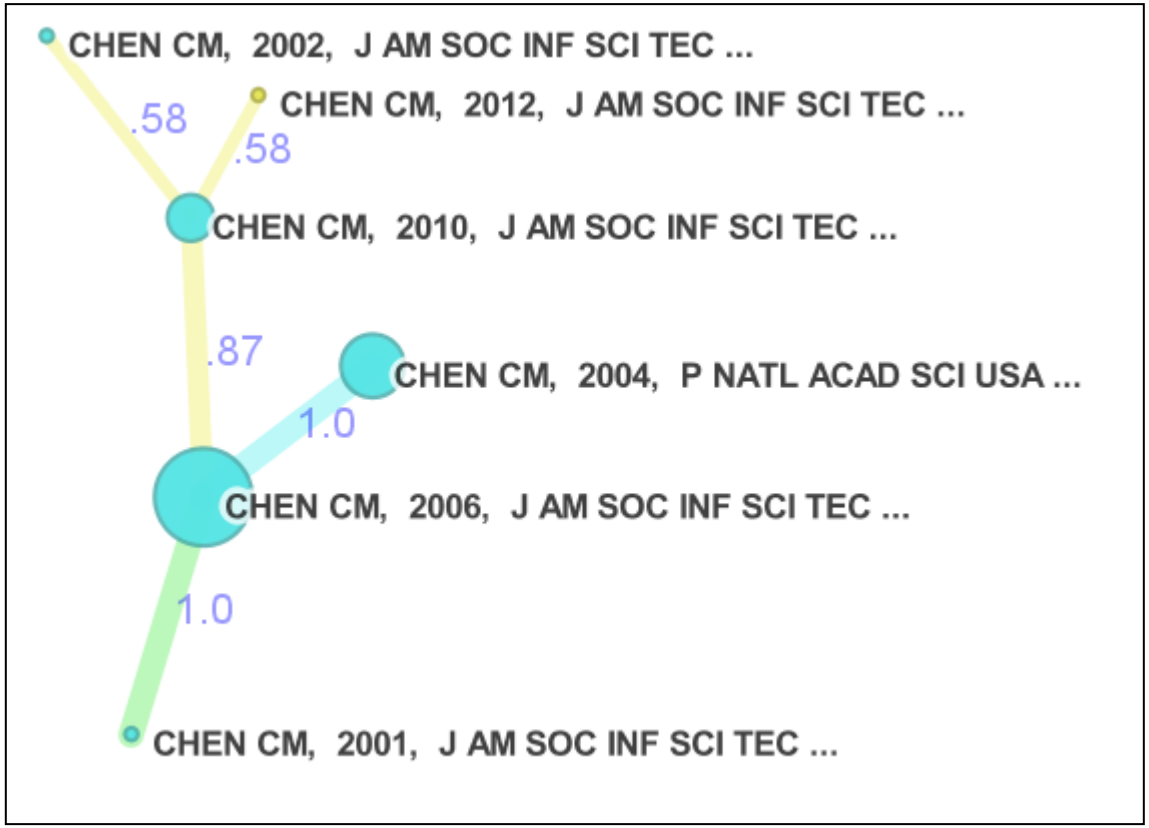
Generate a Network of Co-cited References



Pruning the network

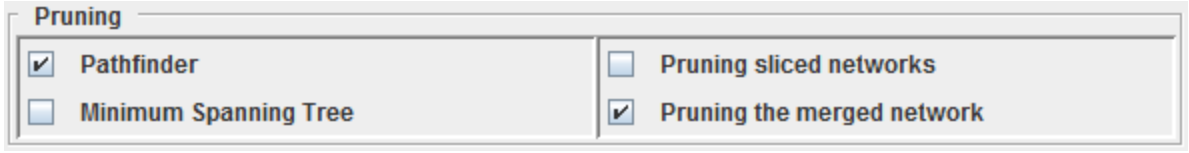
Minimum Spanning Tree (MST)

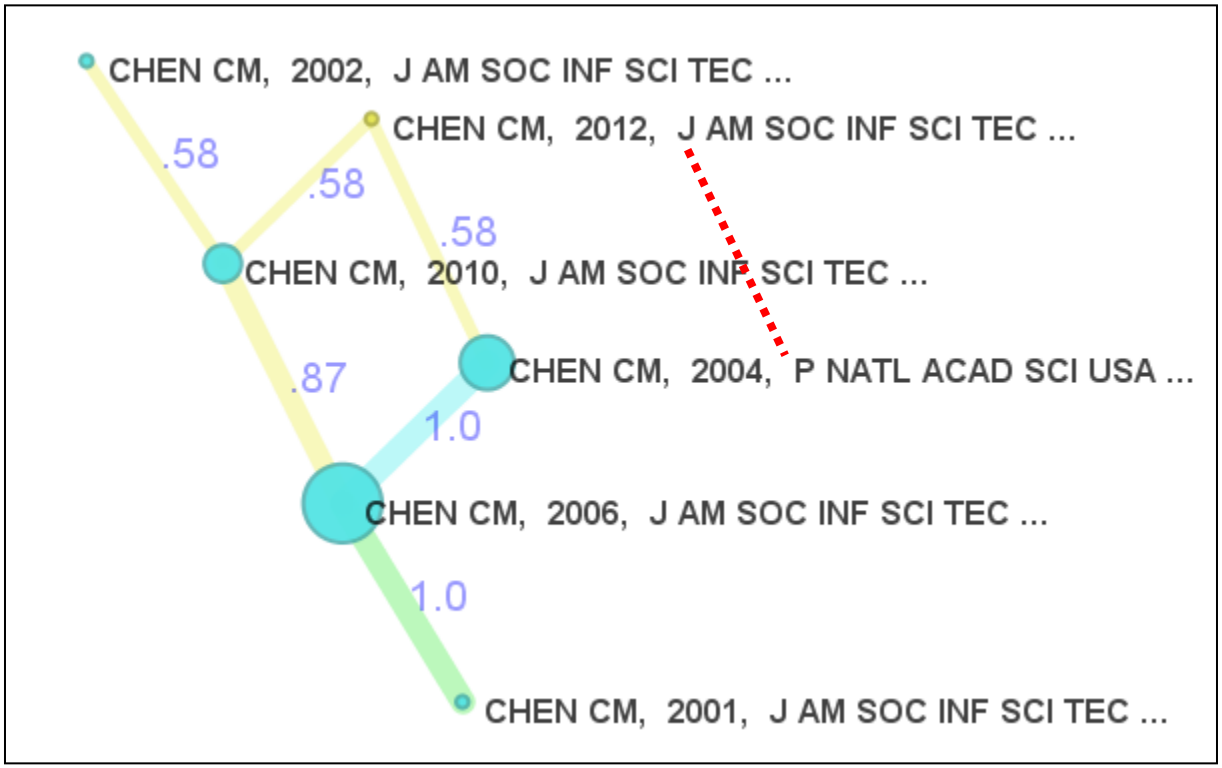




Pruning the network

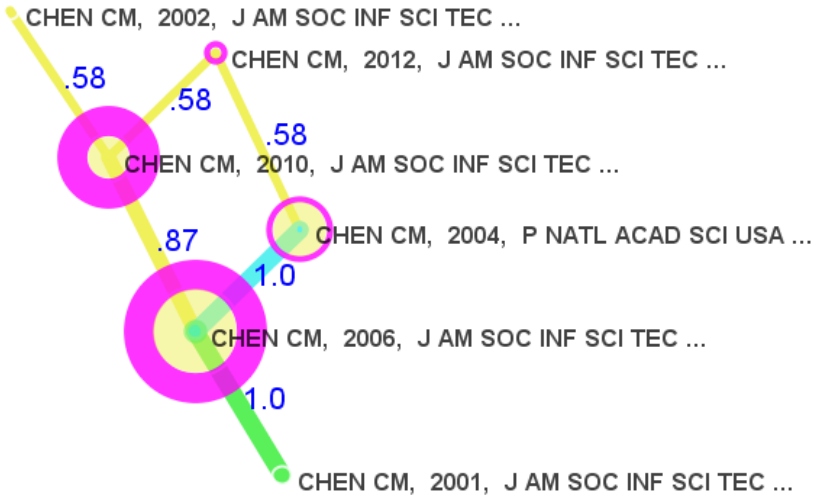
Pathfinder Network Scaling

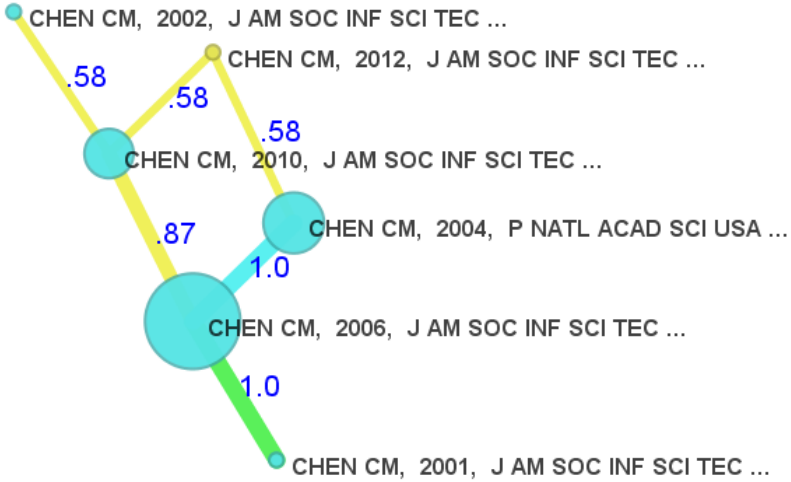




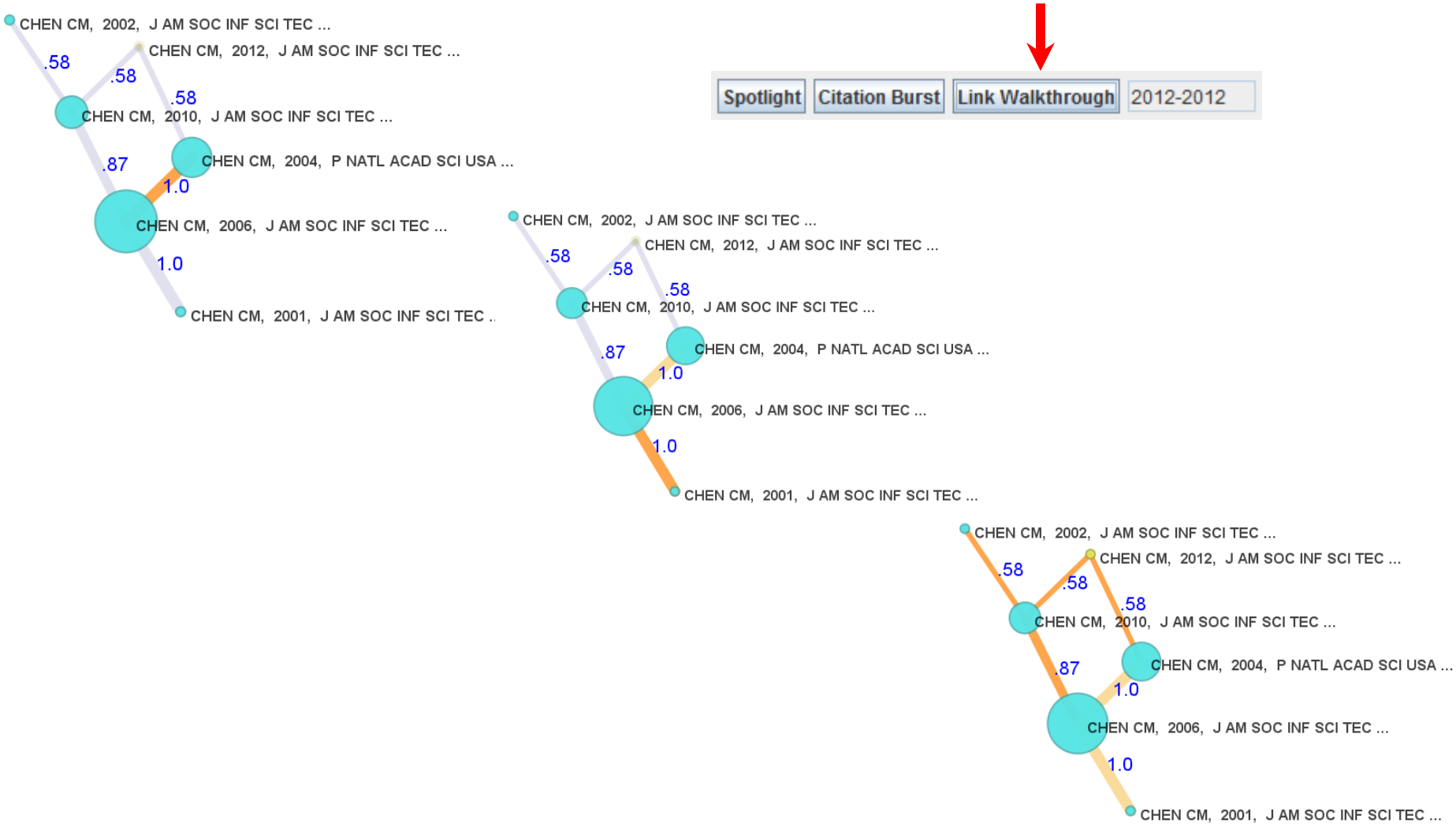
INTERACTING WITH VISUALIZATION

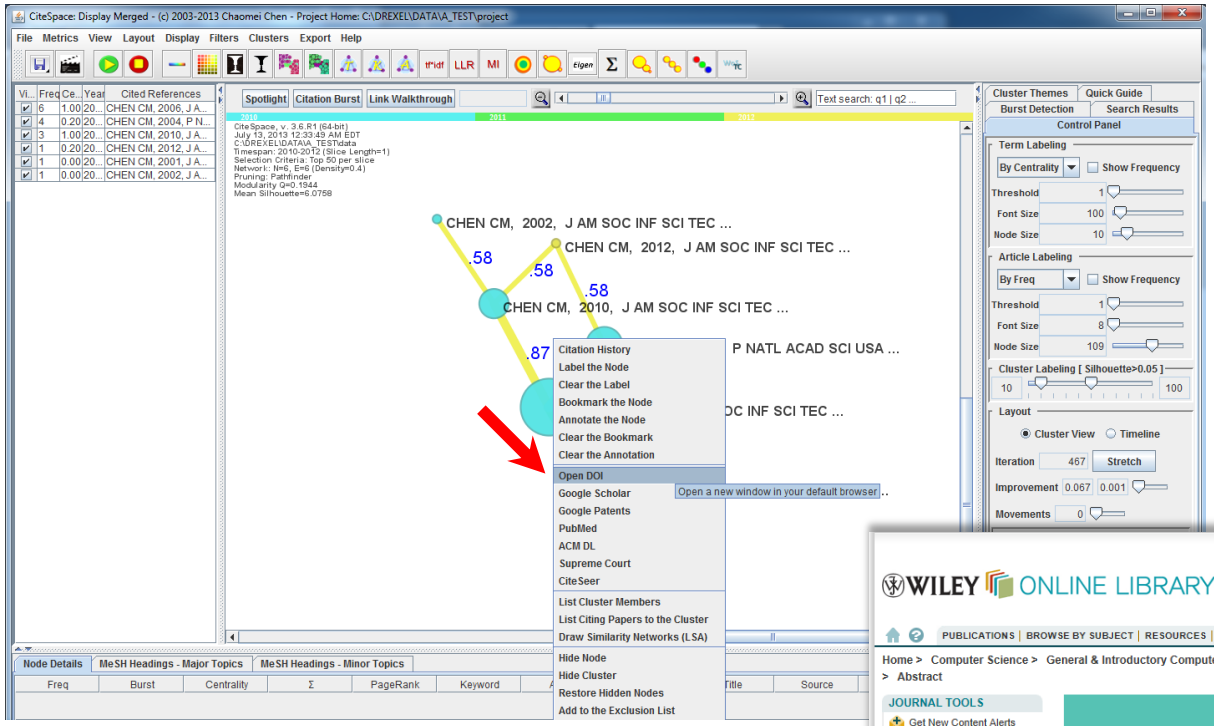
Citation Tree Rings





Link Walkthrough

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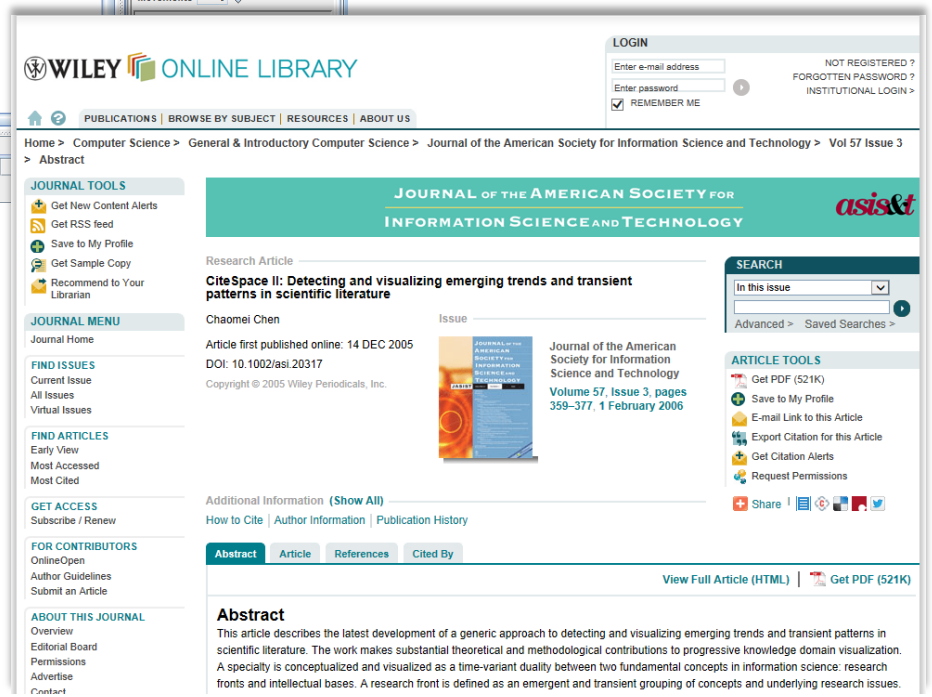
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JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY
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Research Article
CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature
Chaomei Chen
Article first published online: 14 DEC 2005
DOI: 10.1002/asi.20317
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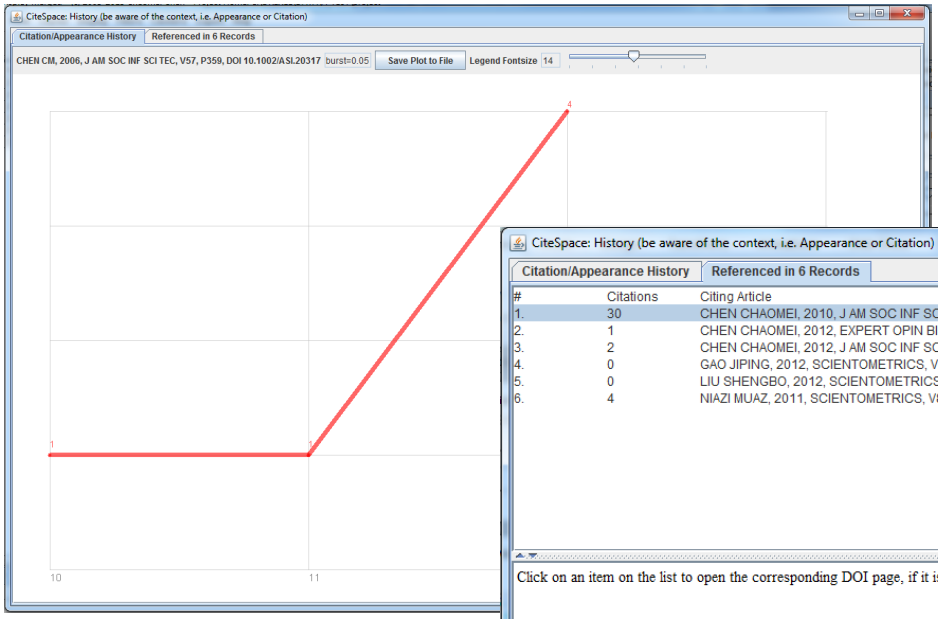
Issue
Journal of the American Society for Information Science and Technology
Volume 57, Issue 3, pages 359–377, 1 February 2006
Abstract
This article describes the latest development of a generic approach to detecting and visualizing emerging trends and transient patterns in scientific literature. The work makes substantial theoretical and methodological contributions to progressive knowledge domain visualization. A specialty is conceptualized and visualized as a time-variant duality between two fundamental concepts in information science: research fronts and intellectual bases. A research front is defined as an emergent and transient grouping of concepts and underlying research issues.

DOI Access

Citation History of a Cited Reference



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Citation/Appearance History | Referenced in 6 Records

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3.	2	CHEN CHAOMEI, 2012, J AM SOC INF SCI TEC, V63, P431, 10.1002/asi.21694
4.	0	GAO JIPING, 2012, SCIENTOMETRICS, V93, P459, 10.1007/s11192-012-0691-z
5.	0	LIU SHENGBO, 2012, SCIENTOMETRICS, V91, P495, 10.1007/s11192-011-0575-7
6.	4	NIAZI MUAZ, 2011, SCIENTOMETRICS, V89, P479, 10.1007/s11192-011-0468-9

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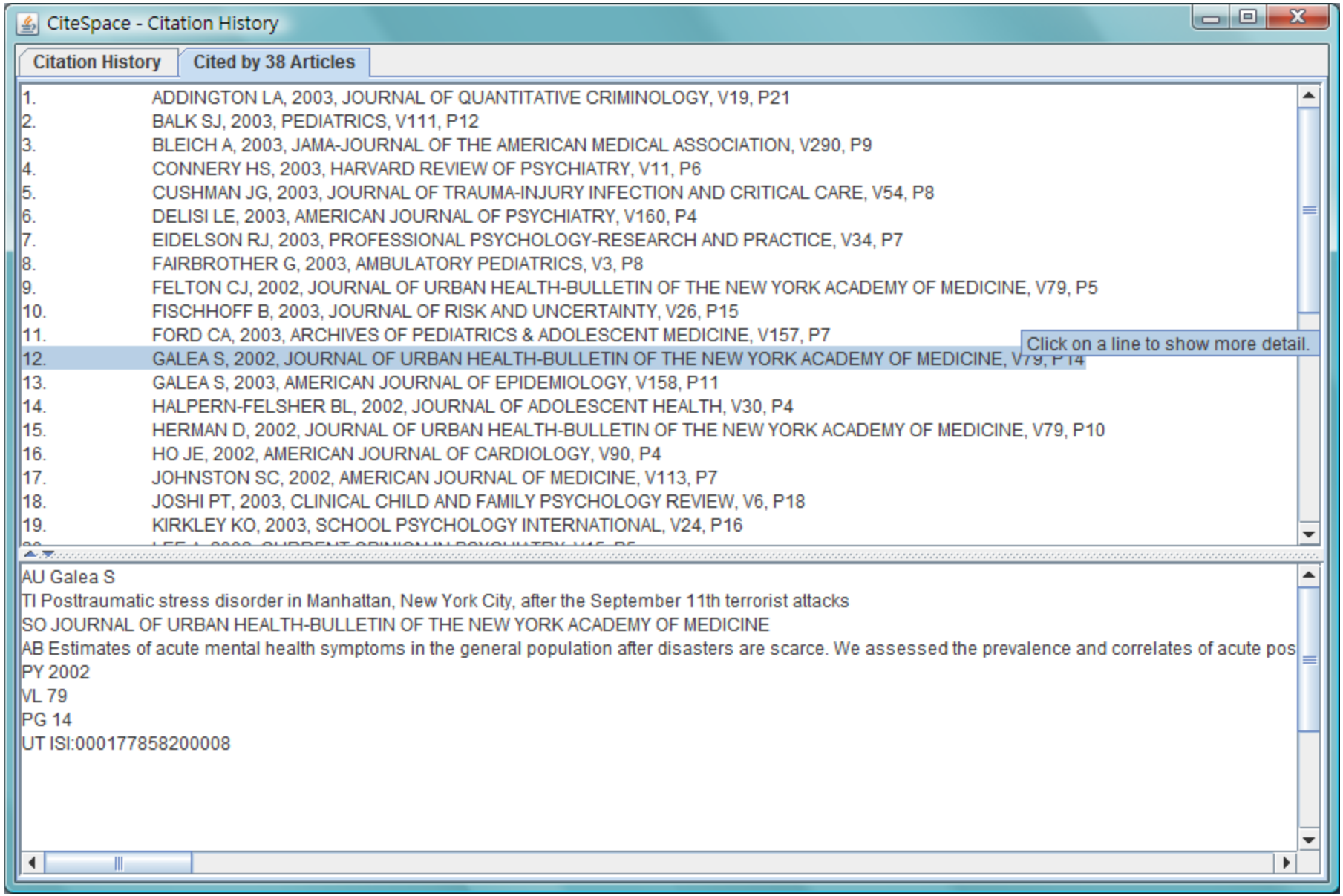
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4. CONNERY HS, 2003, HARVARD REVIEW OF PSYCHIATRY, V11, P6
5. CUSHMAN JG, 2003, JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE, V54, P8
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7. EIDELSON RJ, 2003, PROFESSIONAL PSYCHOLOGY-RESEARCH AND PRACTICE, V34, P7
8. FAIRBROTHER G, 2003, AMBULATORY PEDIATRICS, V3, P8
9. FELTON CJ, 2002, JOURNAL OF URBAN HEALTH-BULLETIN OF THE NEW YORK ACADEMY OF MEDICINE, V79, P5
10. FISCHHOFF B, 2003, JOURNAL OF RISK AND UNCERTAINTY, V26, P15
11. FORD CA, 2003, ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE, V157, P7
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15. HERMAN D, 2002, JOURNAL OF URBAN HEALTH-BULLETIN OF THE NEW YORK ACADEMY OF MEDICINE, V79, P10
16. HO JE, 2002, AMERICAN JOURNAL OF CARDIOLOGY, V90, P4
17. JOHNSTON SC, 2002, AMERICAN JOURNAL OF MEDICINE, V113, P7
18. JOSHI PT, 2003, CLINICAL CHILD AND FAMILY PSYCHOLOGY REVIEW, V6, P18
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TI Posttraumatic stress disorder in Manhattan, New York City, after the September 11th terrorist attacks
SO JOURNAL OF URBAN HEALTH-BULLETIN OF THE NEW YORK ACADEMY OF MEDICINE
AB Estimates of acute mental health symptoms in the general population after disasters are scarce. We assessed the prevalence and correlates of acute pos
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VL 79
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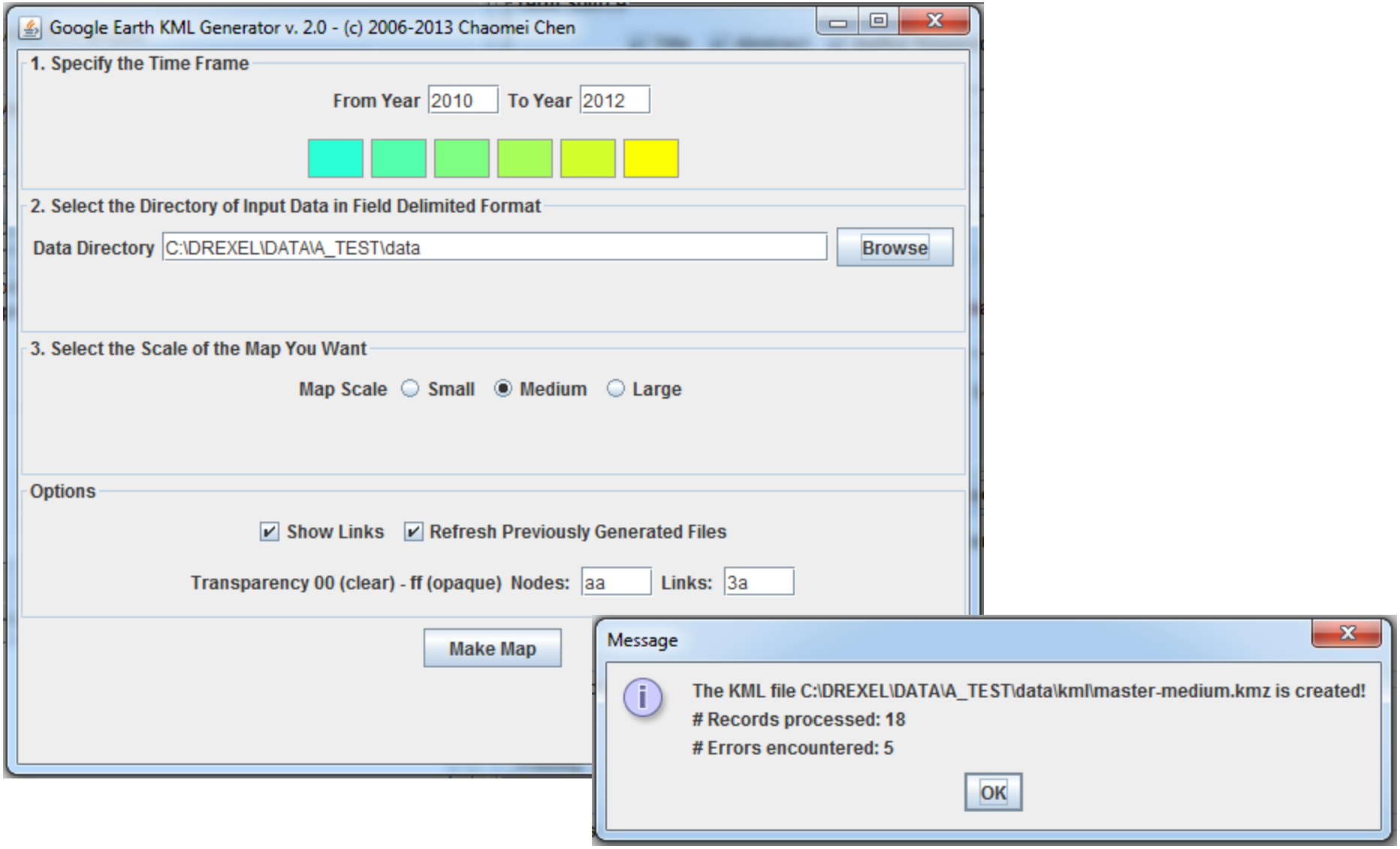

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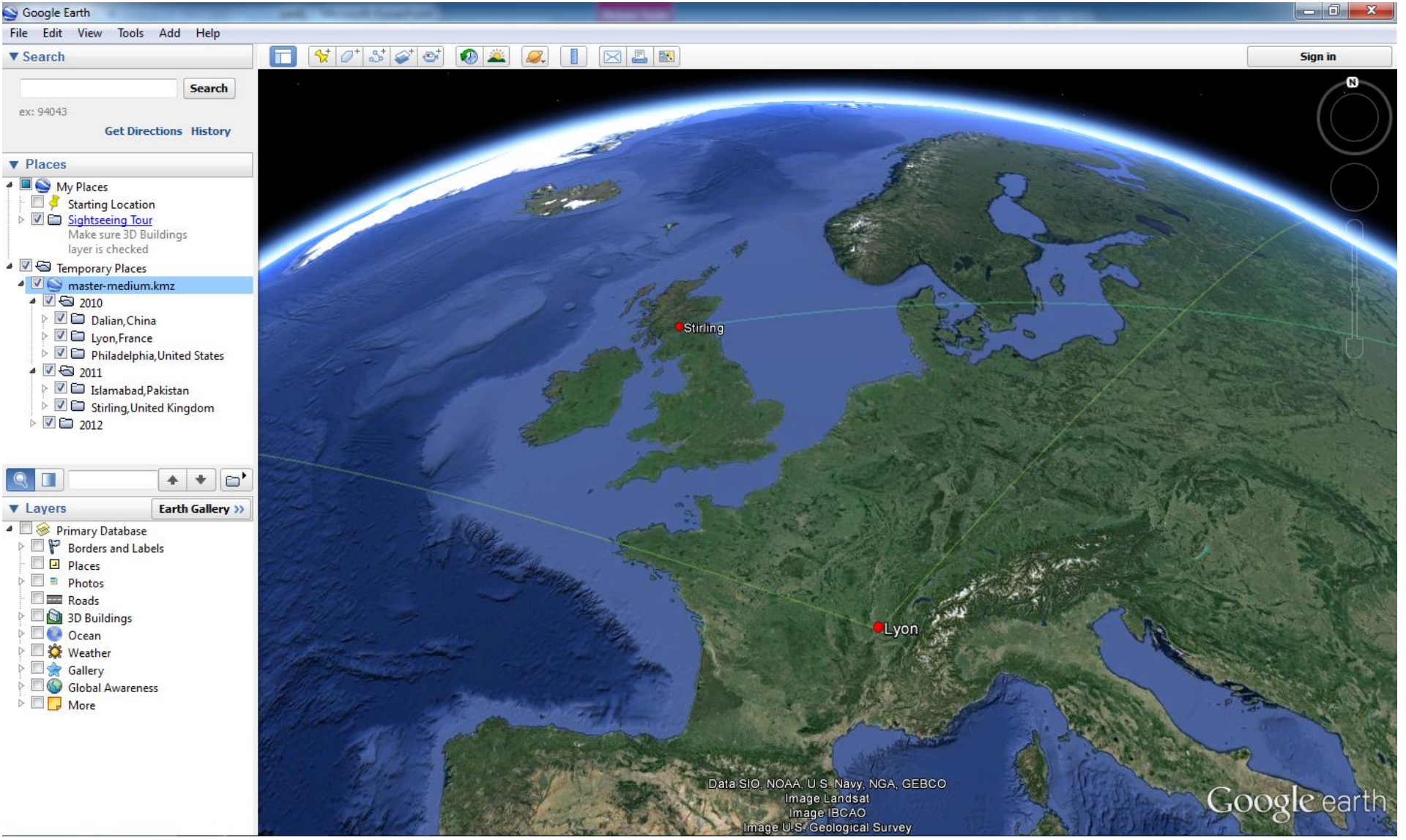

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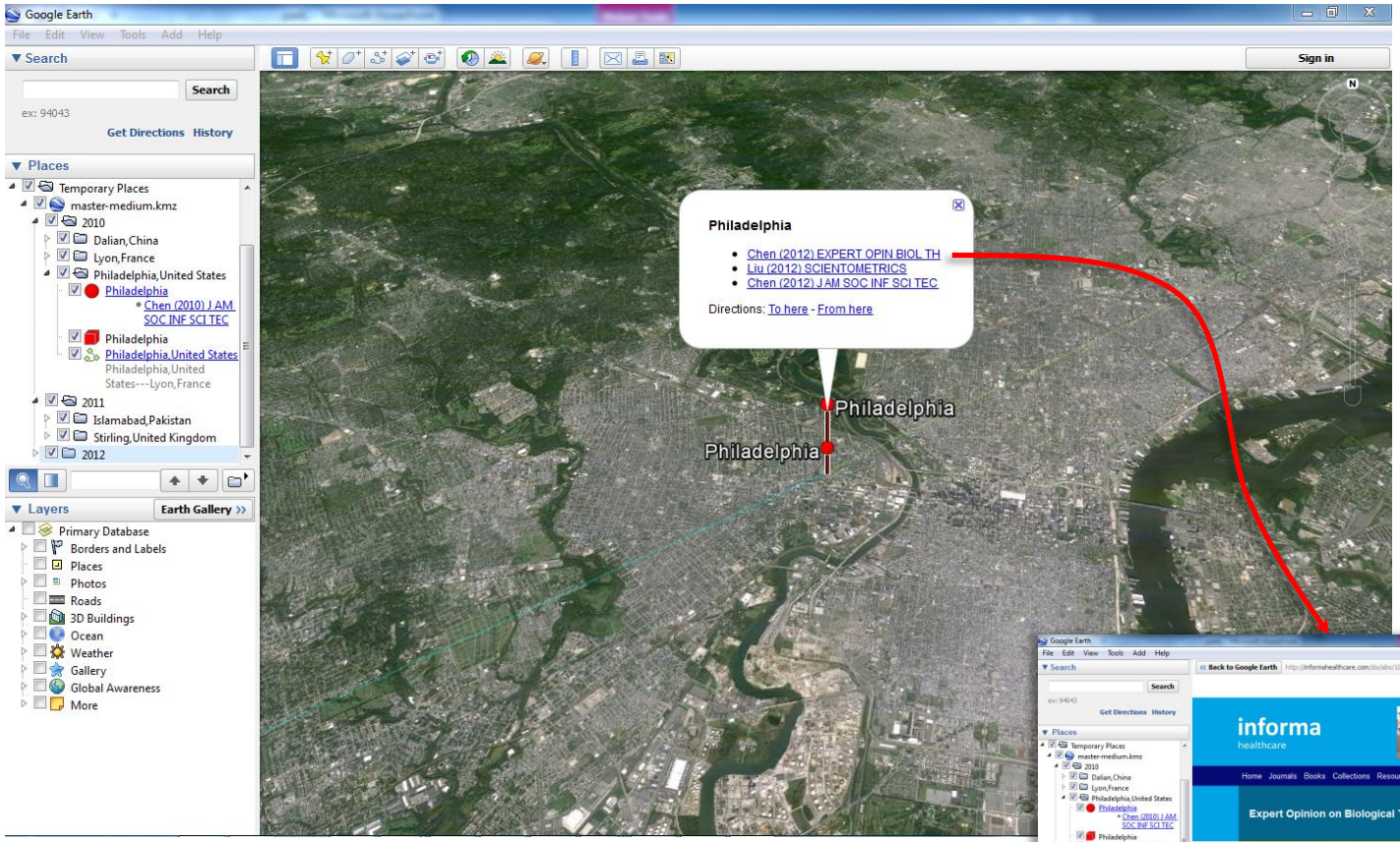

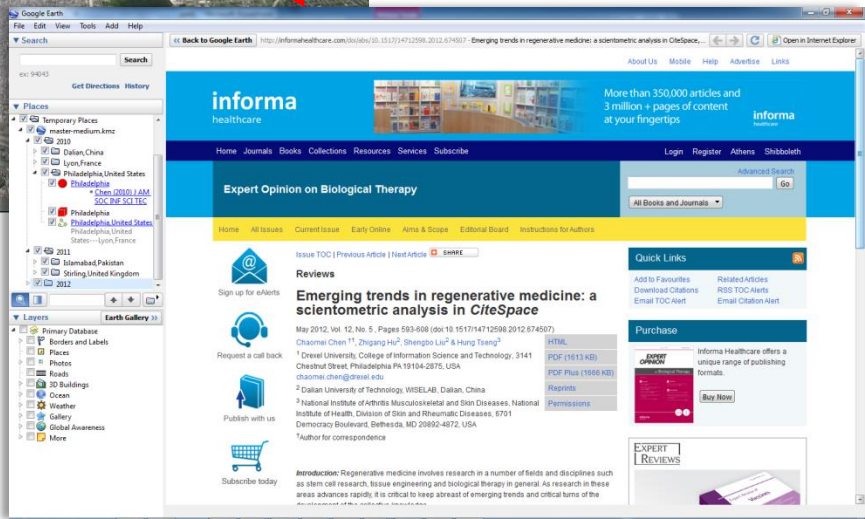

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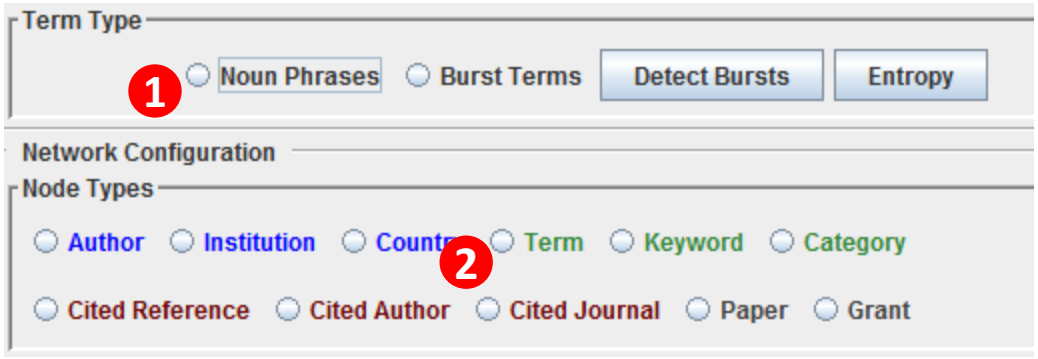

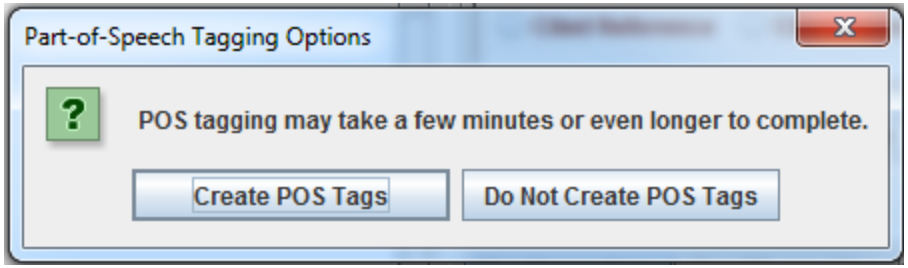

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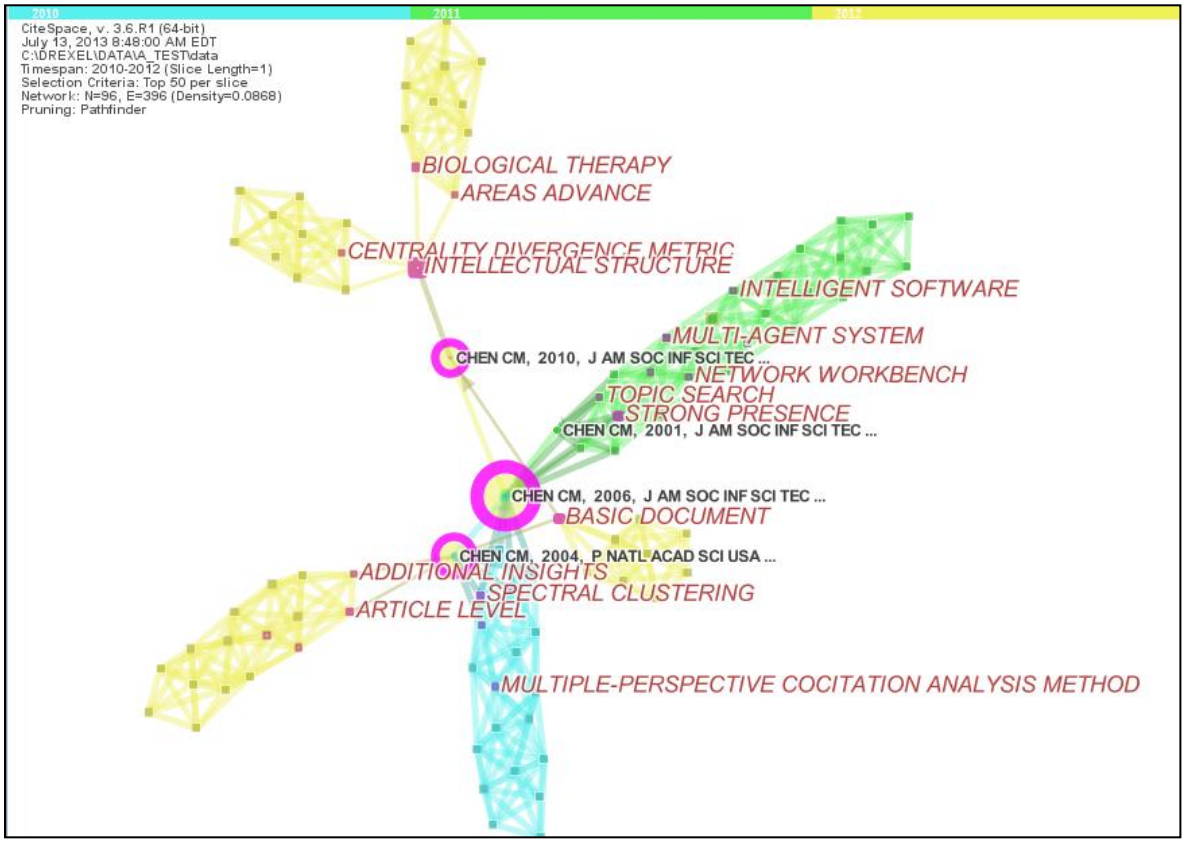

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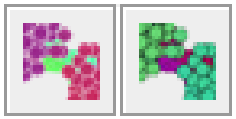

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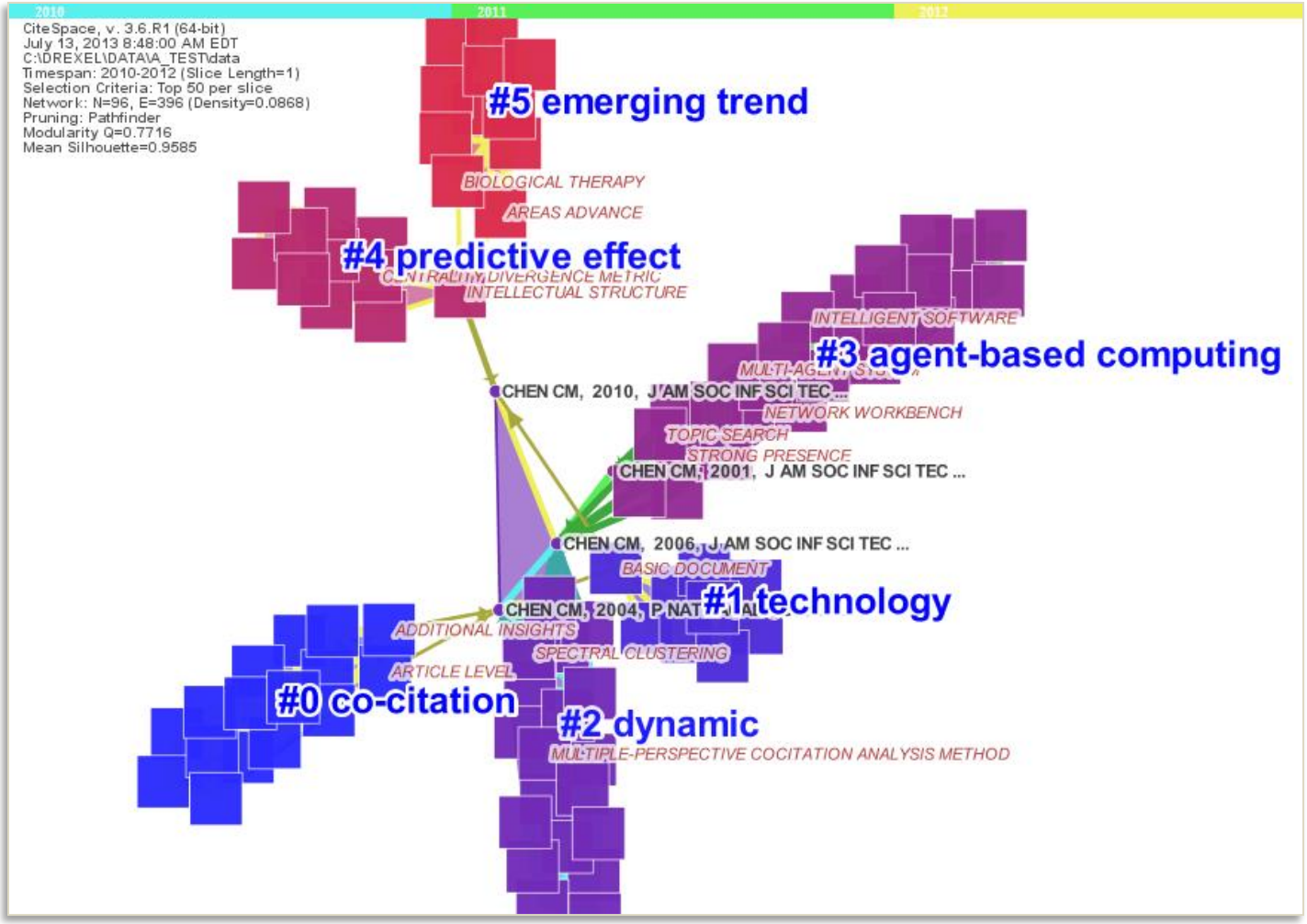

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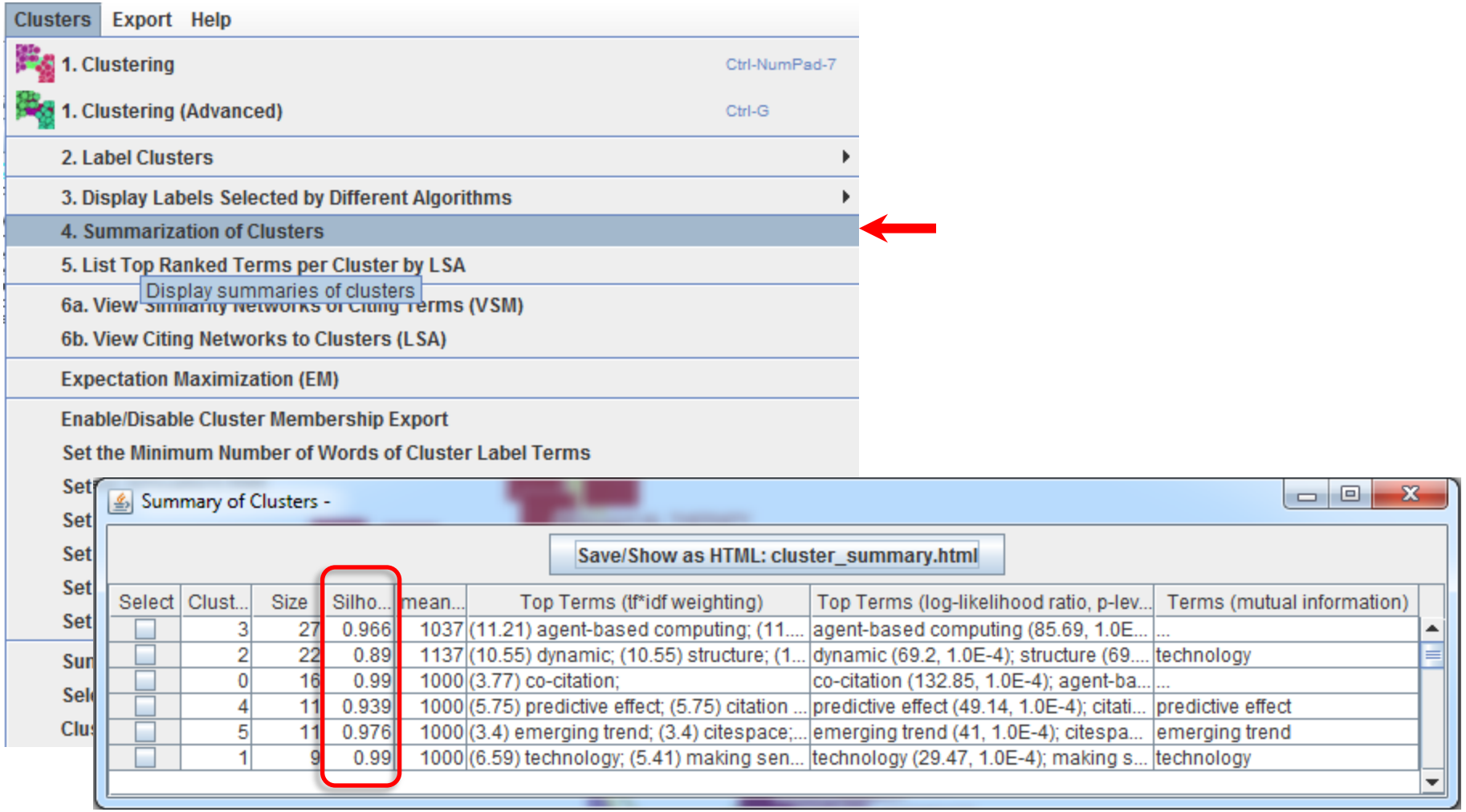

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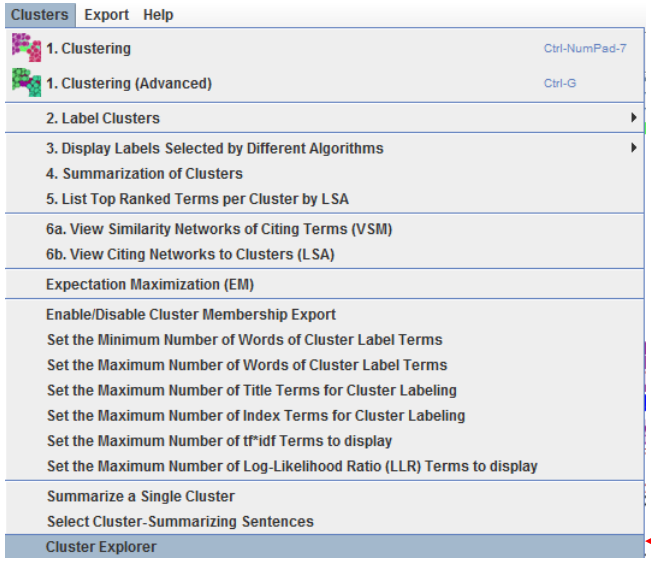
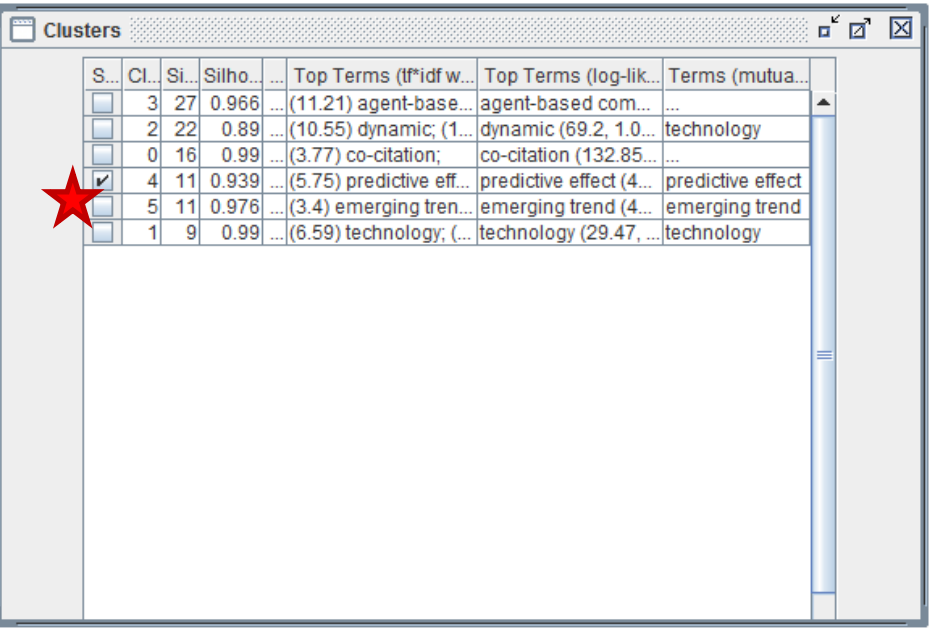
☐	2	22	0.89	1137	(10.55) dynamic; (10.55) structure; (1...	dynamic (69.2, 1.0E-4); structure (69....	technology
☐	0	16	0.99	1000	(3.77) co-citation;	co-citation (132.85, 1.0E-4); agent-ba...	...
☐	4	11	0.939	1000	(5.75) predictive effect; (5.75) citation ...	predictive effect (49.14, 1.0E-4); citati...	predictive effect
☐	5	11	0.976	1000	(3.4) emerging trend; (3.4) citespace;...	emerging trend (41, 1.0E-4); citespa...	emerging trend
☐	1	9	0.99	1000	(6.59) technology; (5.41) making sen...	technology (29.47, 1.0E-4); making s...	technology

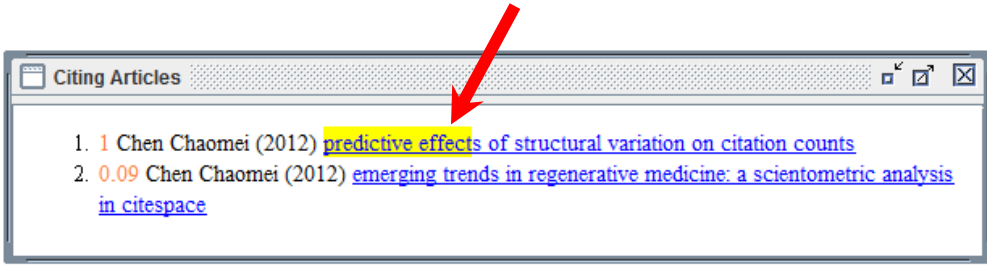
Exploring Clusters in Detail

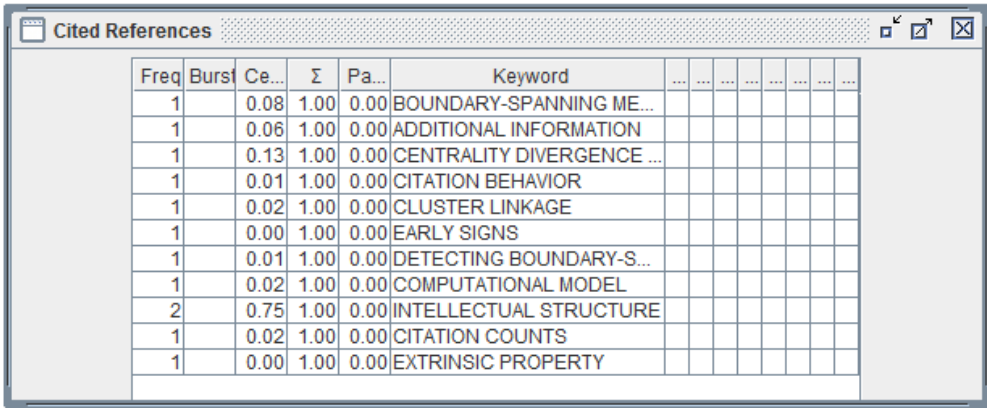
Citing Articles

Cited References









QUESTIONS AND DISCUSSIONS