

NCGIA @ 20

André Skupin
San Diego State University

NCGIA @ 20

1. There be dragons!
2. I link, therefore I am!
3. Nothin' but a G Thing!

NCGIA @ 20
born in '88

So you are:

NCGIA @ 20 born in '88

So you are:



NCGIA @ 20 born in '88



So you are:

- a beautiful creature, colorful and flamboyant
- an extroverted bundle of energy, gifted and utterly irrepressible
- everything on a grand scale - big ideas, ornate gestures, extreme ambitions
- fearless in the face of challenges, because of its confidence, and therefore almost inevitably successful
- making it to the top

NCGIA @ 20 born in '88



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- an extroverted bundle of energy, gifted and utterly irrepressible
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Oh, but you might also suffer from:

- too much enthusiasm can leave you tired and unfulfilled
- though willing to aid when necessary, pride often impedes from accepting the same kind of help from others
- generosity attracts friends, but solitary at heart
- self-sufficiency means there are few close bonds with others

NCGIA @ 20

born in '88

- In short, one could expect that baby to grow up to be:
 - Innovative
 - Enterprising
 - Flexible
 - Self-assured
 - Brave
 - Passionate

 - Conceited
 - Tactless
 - Scrutinizing
 - Unanticipated
 - Quick-tempered

NCGIA @ 20

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- Then again, this might get tempered by one of the five elements:
 - Metal, Water, Wood, Fire, Earth
 - Which one will it be?

NCGIA @ 20

born in '88

- **EARTH** it is, naturally!
 - great manager because being **practical, level-headed** and demonstrating **a knack for organizing**
 - still has the **need to dictate and be admired**, but is **affable, congenial and supportive**
 - compared to other dragons, this one is **less likely to breathe fire at the least irritation**
 - will work diligently to **complete its life goals**
 - earth element adds a greater portion of **self-control**, so that it is deserving of the respect it desires
 - takes its life and **romantic (!?)** responsibilities quite seriously

NCGIA @ 20 born in '88

... speaking of the romantic side of NCGIA ...

National Science Foundation



NCGIA (if it had been born only in '89)



“You are on completely different paths that aren’t worth crossing.”

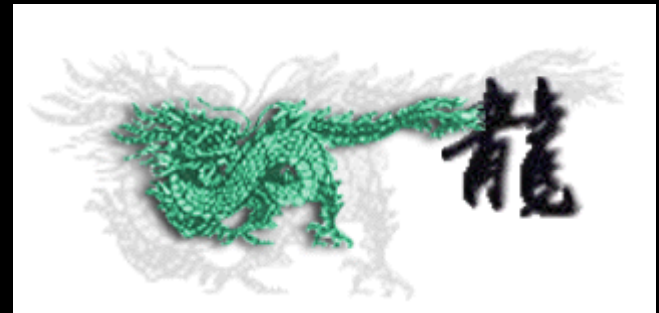
NCGIA @ 20 born in '88

... speaking of the romantic side of NCGIA ...

National Science Foundation



NCGIA



“A brave combination with plenty of fire to keep you interested.”

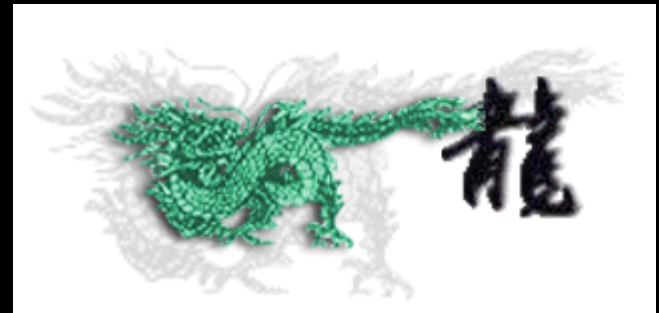
NCGIA @ 20 born in '88

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NCGIA



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Authors

Source Titles

Publication Years

- 1. Title: [Introduction to digital gazetteer research](#)
Author(s): Goodchild MF, Hill LL
Source: INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE Volume: 22 Issue: 10 Pages: 1039-1044 Published: 2008
Times Cited: 0
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Source: INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE Volume: 22 Issue: 10 Pages: 1045-1054 Published: 2000
Times Cited: 0
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Author(s): Guo Q, Liu Y, Wiecek J
Source: INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE Volume: 22 Issue: 10 Pages: 1067-1090 Published: 2008
Times Cited: 0
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Author(s): Mostern R, Johnson I
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- ARTICLE (2,750)
 - PROCEEDINGS PAPER (537)
 - REVIEW (175)
 - EDITORIAL MATERIAL (55)
 - BOOK REVIEW (12)
- [more options / values...](#)

Authors

- 1. Title: [A decision support system for integrated hazardous materials routing and emergency response decisions](#)
Author(s): Zografos KG, Androutsopoulos KN
Source: **TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES** Volume: 16 Issue: 6 Pages: 684-703 Published: DEC 2008
Times Cited: 0
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- 2. Title: [MULTI-CRITERIA EVALUATION OF A GIS ENVIRONMENT IN A FOREST FIRE HAZARD MAPPING FOR THE CORUMBATAI RIVER BASIN, SP, BRAZIL](#)
Author(s): da Silveira HLF, Vettorazzi CA, Valente RDA
Source: **REVISTA ARVORE** Volume: 32 Issue: 2 Pages: 259-268 Published: MAR-APR 2008
Times Cited: 0
[Find Full Text](#)
- 3. Title: [Environmental decision-support systems for evaluating the carrying capacity of land areas: Optimal site selection for grid-connected photovoltaic power plants](#)
Author(s): Carrion JA, Estrella AE, Dols FA, et al.
Source: **RENEWABLE & SUSTAINABLE ENERGY REVIEWS** Volume: 12 Issue: 9 Pages: 2358-2380 Published: DEC 2008
Times Cited: 0
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- 4. Title: [Geo-Narrative: Extending Geographic Information Systems for Narrative Analysis in Qualitative and Mixed-Method Research](#)
Author(s): Kwan MP, Ding GX
Source: **PROFESSIONAL GEOGRAPHER** Volume: 60 Issue: 4 Pages: 443-465 Published: NOV 2008
Times Cited: 0

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Projects

New Cites2IJGIS More Actions ...

Project Home: C:\askupin\Research\2008\NCGIA\Analysis_Cites2IJGIS

Data Directory: C:\askupin\Research\2008\NCGIA\SourceData\Cites2IJGIS

GO! Stop Reset JVM Memory (K) 532807 Used (%) 7

Space Status

Please wait while CiteSpace imports files and builds networks.
The process may take several minutes to complete.

5-year slices	criteria	space	nodes	links
1988-1992	top 50	2512	50	491
1993-1997	top 50	8473	50	453
1998-2002	top 50	17041	50	525
2003-2007	top 50	33060	50	609
2008-2009	top 50	11768	50	174

Pruning configuration:

Process Reports

download_1001-1500.txt	500	0
download_1501-2000.txt	500	0
download_2001-2500.txt	500	0
download_2501-3000.txt	500	0
download_3001-3500.txt	500	0
download_3500-3542.txt	43	0
download_501-1000.txt	500	0

Run time: 11640 milliseconds.

Merged network: Nodes=126, Links=1699

Exclusion List: 0

Network modeling ends at Wed Dec 10 03:08:42 PST 2008.

Time Slicing

From 1988 To 2008 #Years Per Slice 5 Entropy

Modeling

Node Types

Author
 Term
 Keyword
 Category
 Institution
 Country

Cited Reference
 Cited Author
 Cited Journal

Term Sources

Title
 Abstract
 Descriptors
 Identifiers

Term Selection

None
 Noun Phrases
 Burst Phrases
 Find Burst Phrases

Links

Strength Cosine Scope Within Slices

Top N per slice Top N% per slice Threshold Interpolation

Select top 50 most cited or occurred items from each slice.

Pruning

Pathfinder
 Pruning sliced networks

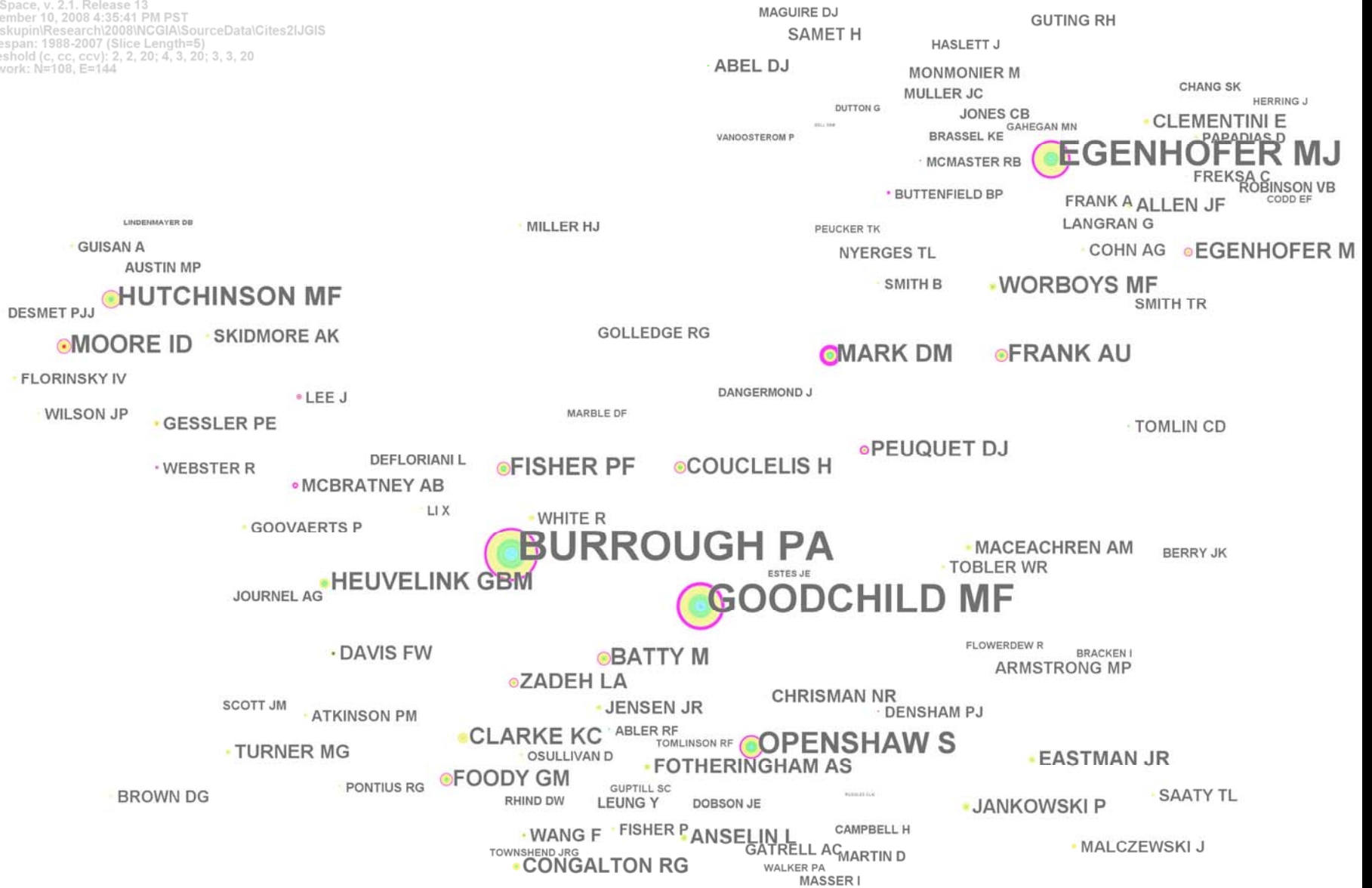
Minimum Spanning Tree
 Pruning the merged network

Visualization

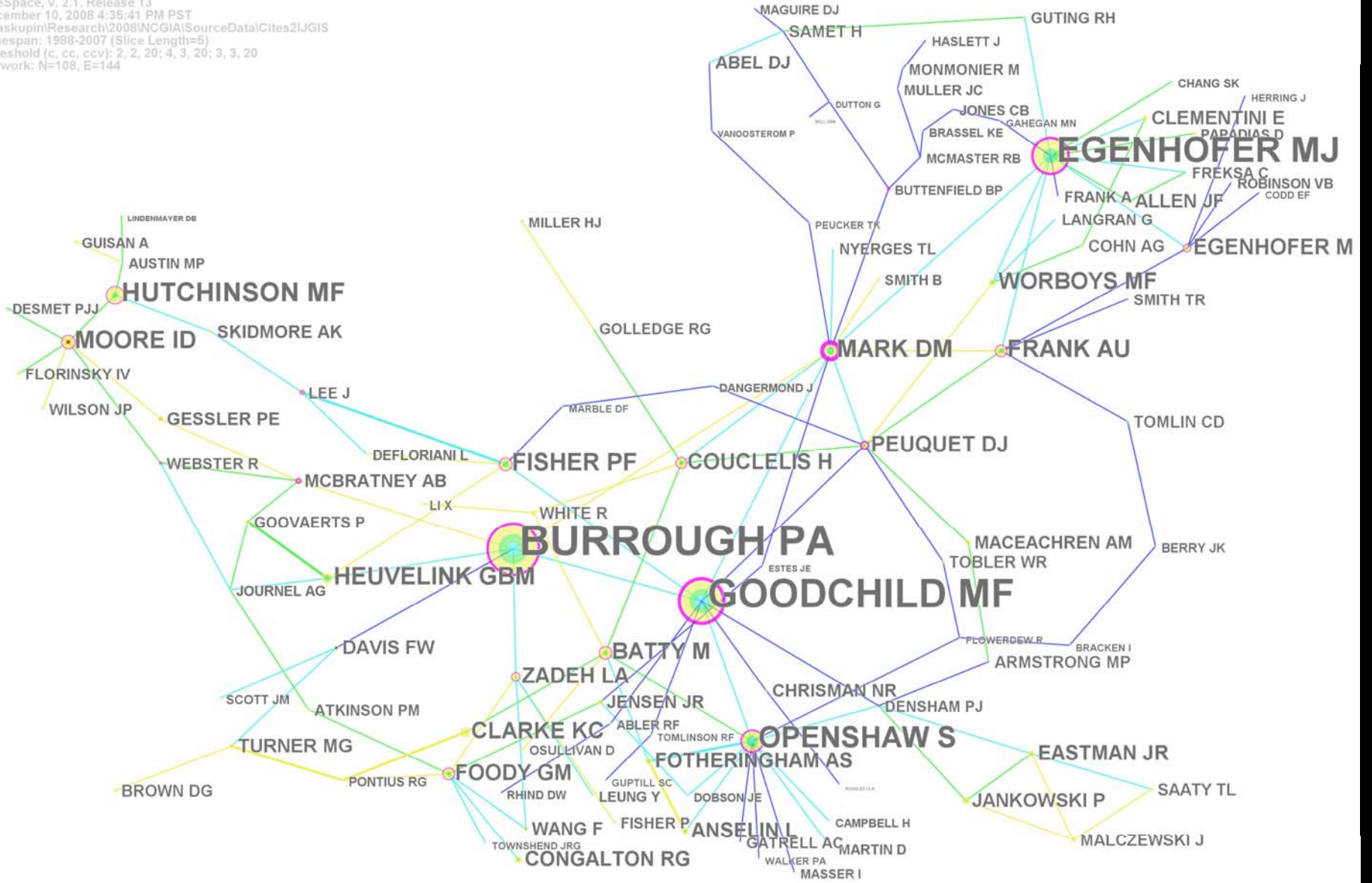
Cluster View (Default)
 Show Networks by Time Slices

Time-zone View
 Show Merged Network

CiteSpace, v. 2.1. Release 13
December 10, 2008 4:35:41 PM PST
C:\askupin\Research\2008\NCGIA\SourceData\Cites2\JGIS
Timespan: 1988-2007 (Slice Length=5)
Threshold (c, cc, ccv): 2, 2, 20; 4, 3, 20; 3, 3, 20
Network: N=108, E=144



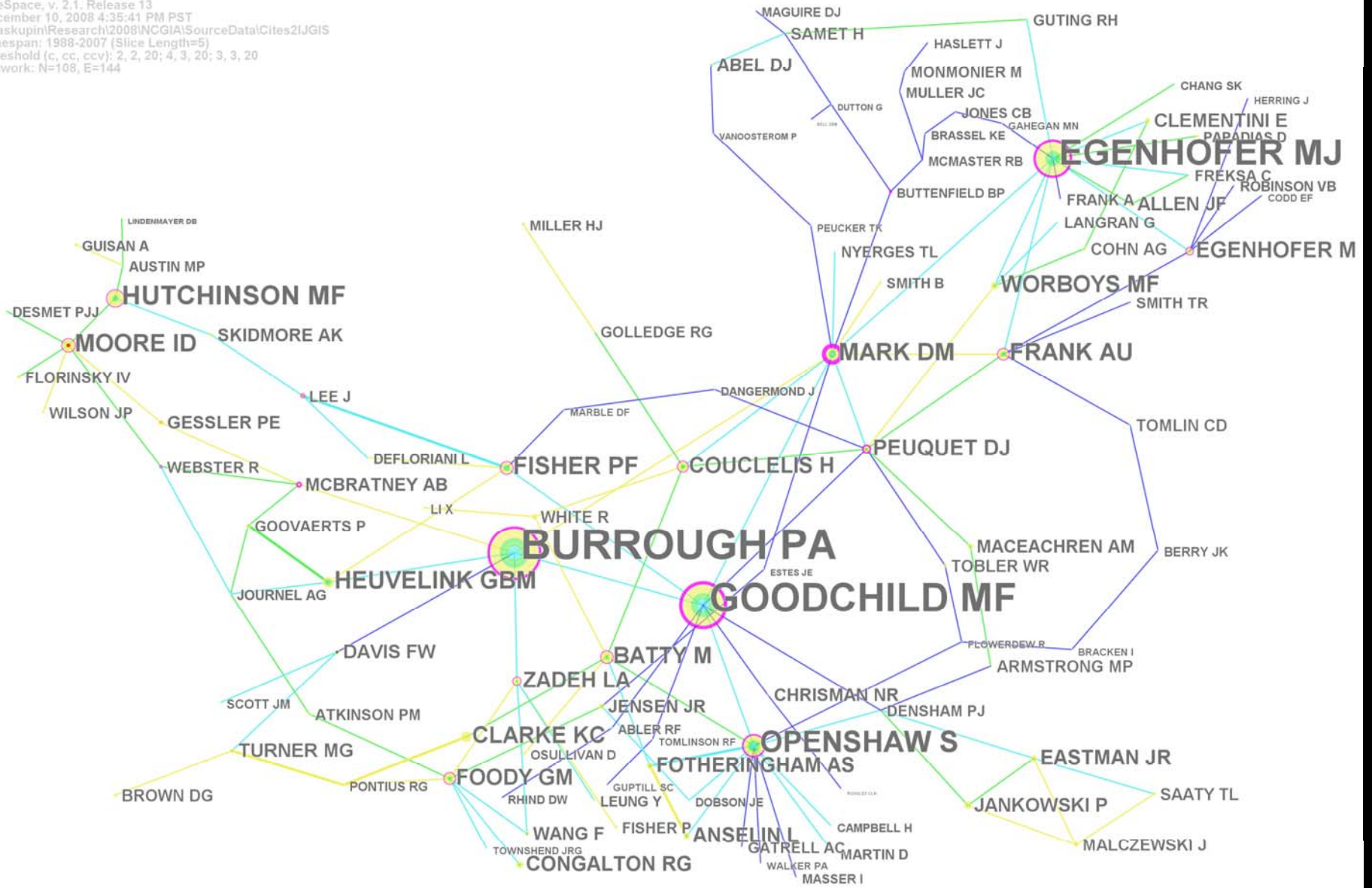
CiteSpace, v. 2.1. Release 13
December 10, 2008 4:35:41 PM PST
C:\askupin\Research\2008\INGIA\SourceData\Cites2\JGI5
Timespan: 1998-2007 (Slice Length=5)
Threshold (c, cc, ccv): 2, 2, 20; 4, 3, 20; 3, 3, 20
Network: N=108, E=144



CiteSpace - Summary Table										
Freq	Burst	Central...K...	Author	Year	...	...	Vol...	...	HalfLife	Cluster
578		0.27	BURROUGH PA	1986	...	...	...	...	6	-1
530		0.23	GOODCHILD MF	1989	...	...	V0	...	3	-1
411		0.07	EGENHOFER MJ	1991	...	l...	V5	...	0	-1
286	4.36	0.27	OPENSHAW S	1987	...	l...	V1	...	5	-1
248		0.01	HUTCHINSON MF	1989	...	...	V0	...	8	-1
214		0.38	MARK DM	1989	...	l...	V3	...	3	1
207	5.58	0.18	FISHER PF	1991	...	l...	V5	...	1	-1
207		0.05	BATTY M	1994	...	l...	V8	...	1	-1
205	3.32	0.23	MOORE ID	1986	...	...	...	...	10	-1
196		0.08	FRANK AU	1991	...	...	V0	...	0	-1
190	4.07	0.01	HEUVELINK GBM	1993	...	l...	V7	...	3	-1
188		0.05	CLARKE KC	1998	...	l...	...	...	3	-1
183		0.09	FOODY GM	1990	...	l...	...	...	7	-1
177		0.19	COUCLELIS H	1986	...	...	...	...	11	-1
176		0.01	WORBOYS MF	1994	...	l...	V8	...	1	-1
166		0.06	ZADEH LA	1975	...	l...	V8	...	21	-1
160	4.66	0.04	EGENHOFER M	1990	...	...	V0	...	1	-1
158		0.07	CONGALTON RG	1988	...	...	...	...	8	-1
157	4.32	0.09	PEUQUET DJ	1984	...	...	...	...	8	-1
156		0.01	EASTMAN JR	1993	...	...	V4	...	3	-1
141		0.00	FOTHERINGHAM AS	1996	...	l...	...	...	0	-1
140		0.02	JANKOWSKI P	1994	...	...	...	...	7	-1
138		0.00	ANSELIN L	1992	...	...	...	...	4	-1
135		0.02	CLEMENTINI E	1993	...	...	...	...	2	-1
123		0.01	TURNER MG	1988	...	...	V1	...	8	-1
121		0.01	JENSEN JR	1990	...	l...	V4	...	1	-1

CiteSpace - Summary Table										
Freq	Burst	Central...K...	Author	Year	...	...	Vol	...	HalfLife	Cluster
214		0.38	MARK DM	1989	...	l...	V3	...	3	-1
578		0.27	BURROUGH PA	1986	...	...	...	...	6	-1
286	4.36	0.27	OPENSHAW S	1987	...	l...	V1	...	5	-1
530		0.23	GOODCHILD MF	1989	...	...	V0	...	3	-1
205	3.32	0.23	MOORE ID	1986	...	...	...	...	10	-1
177		0.19	COUCLELIS H	1986	...	...	...	...	11	1
207	5.58	0.18	FISHER PF	1991	...	l...	V5	...	1	-1
183		0.09	FOODY GM	1990	...	l...	...	...	7	-1
157	4.32	0.09	PEUQUET DJ	1984	...	...	...	...	8	-1
196		0.08	FRANK AU	1991	...	...	V0	...	0	-1
411		0.07	EGENHOFER MJ	1991	...	l...	V5	...	0	-1
158		0.07	CONGALTON RG	1988	...	...	...	...	8	-1
166		0.06	ZADEH LA	1975	...	l...	V8	...	21	-1
96	5.01	0.06	SAMET H	1990	...	...	...	...	2	-1
87		0.06	DENSHAM PJ	1987	...	...	V8	...	4	-1
72		0.06	AUSTIN MP	1989	...	...	...	...	11	-1
207		0.05	BATTY M	1994	...	l...	V8	...	1	-1
188		0.05	CLARKE KC	1998	...	l...	...	...	3	-1
160	4.66	0.04	EGENHOFER M	1990	...	...	V0	...	1	-1
115	11.97	0.04	DAVIS FW	1990	...	l...	V4	...	2	-1
98		0.04	ARMSTRONG MP	1991	...	...	V0	...	1	-1
95	8.25	0.04	TOMLIN CD	1986	...	...	...	...	5	-1
77	12.76	0.04	SMITH TR	1984	...	...	...	...	7	-1
108	7.75	0.03	CHRISMAN NR	1987	...	...	...	...	5	-1
106		0.03	SKIDMORE AK	1996	...	l...	0	-1
105	4.96	0.03	MCBRATNEY AB	1983	14	-1

CiteSpace, v. 2.1. Release 13
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Timespan: 1998-2007 (Slice Length=5)
Threshold (c, cc, ccv): 2, 2, 20; 4, 3, 20; 3, 3, 20
Network: N=108, E=144



It's a G Thing!

National Center for **Geographic** Information and Analysis

NOT

National Center for **Geospatial** Information and Analysis

It's a G Thing!

It's a *revisionist* G Thing!

It's a *revisionist* G Thing!

Open Geospatial Consortium (OGC). In describing its own history, the organization makes the following statement (<http://www.opengeospatial.org/ogc/historylong>; accessed July 29, 2008):

“ ... The company was incorporated as "OGIS Ltd." on August 25, 1994. An Oct 22, 1994 Board resolution changed the name to "Open Geospatial Consortium, Inc."

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“ ... The company was incorporated as "OGIS Ltd." on August 25, 1994. An Oct 22, 1994 Board resolution changed the name to "Open Geospatial Consortium, Inc."

No, it did not!

It was called the *Open GIS Consortium* from 1994 until at least 2003

(<http://www.archive.org>)

It's a *different* G Thing!

“ ‘Geographic’ is the right word for graphic presentation -- maps -- of features and phenomena on or near the Earth's surface. ‘Geospatial,’ (or ‘spatial’) also refers to data about Earth features and phenomena, but the data are not necessarily graphically presented. Many geoprocessing applications do not involve a human-readable map on a display.

(<http://www.opengeospatial.org/ogc/faq/>; accessed July 30, 2008)

“It’s a *new* G Thing!”

Uh, wait, first let me redefine your G in suitably narrow terms and call that the old G. That makes it easier for me to claim mine as new:

“Neogeography means ‘new geography’ and consists of a set of techniques and tools that fall outside the realm of traditional GIS.”

[Turner, A. (2006) Introduction to Neogeography. O’Reilly]

Since I can't have your GIS,

Search Phrase	Google Hits
“geographic information system”	1,810,000
“geographical information system”	1,130,000
“geospatial information system”	45,900

Since I can't have your GIS,
I'll just take over your G! Hah!

Search Phrase	Google Hits
“geographic information system”	1,810,000
“geographical information system”	1,130,000
“geospatial information system”	45,900
“geographic”	113,000,000
“geographical”	46,900,000
“geospatial”	4,980,000

... even there's no nothing like that for
B, C, or A Things ...

Search Phrase	Google Hits
“geographic”	113,000,000
“geographical”	46,900,000
“geospatial”	4,980,000
“biological”	102,000,000
“biospatial”	1,820
“chemical”	246,000,000
“chemospatial”	0
“astrospatial”	22
“socio-spatial”	26,200
“anthrospatial”	6
“infospatial”	52
“econospatial”	0

Does it even matter?

- (a) avoid *redundancy*
- (b) leverage *geographic concepts*
- (c) highlight the power of *abstraction*
- (d) highlight the power of *transformation*
- (e) *scale* matters
- (f) *people* matter
- (g) *space* matters

Another G Gem

“Geospatial information education is only one of many technology areas that are suffering from the lack of education standards. In the United States two groups have stepped up to try to fill this void--the **National Center for *Geospatial* Information and Analysis** (NCGIA) and the DoD-sponsored Community Geospatial Information Training Committee (CGITC) and Community Imagery Training Committee (CITC).

In 1996 NCGIA proposed a core curriculum for ***Geospatial Information Science*** (GIScience). The primary purpose of this core curriculum was to provide the academic community with a generic design of courses that act as the foundation of a comprehensive GIScience program.”

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http://www.ncgia.ucsb.edu/other/ucgis/summit/nima_full.pdf

So ...

Geospatial see **Geographic**

So ...

Geospatial see **Geographic**

as in

**National Center for *Geographic*
Information and Analysis**

So ...

Geospatial see **Geographic**

as in

**National Center for *Geographic*
Information and Analysis**

or

There be Dragons!!!



Source: <http://mollyh2os.home.att.net/zodiac/dragon-1.gif>