(preliminary) Biblio Analysis

Database: Web of Science (main collection)
Search expression: “controlled vocabulary” OR “thesaur*” AND “semant*”
No. References retrieved: 827

Analysis:
1. Statistical analysis from WoS website;
2. Data mining, statistical analysis and visualization from VOSViewer

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File | Items | Analysis

Normalization

Method: LinLog/mod...

Layout

Attraction: 10

Repulsion: 0

Use default values

Advanced Parameters...

Update Layout

Clustering

Resolution: 1.00

Min. cluster size: 1

Merge small clusters

Advanced Parameters...

Update Clustering

Rotate/flip

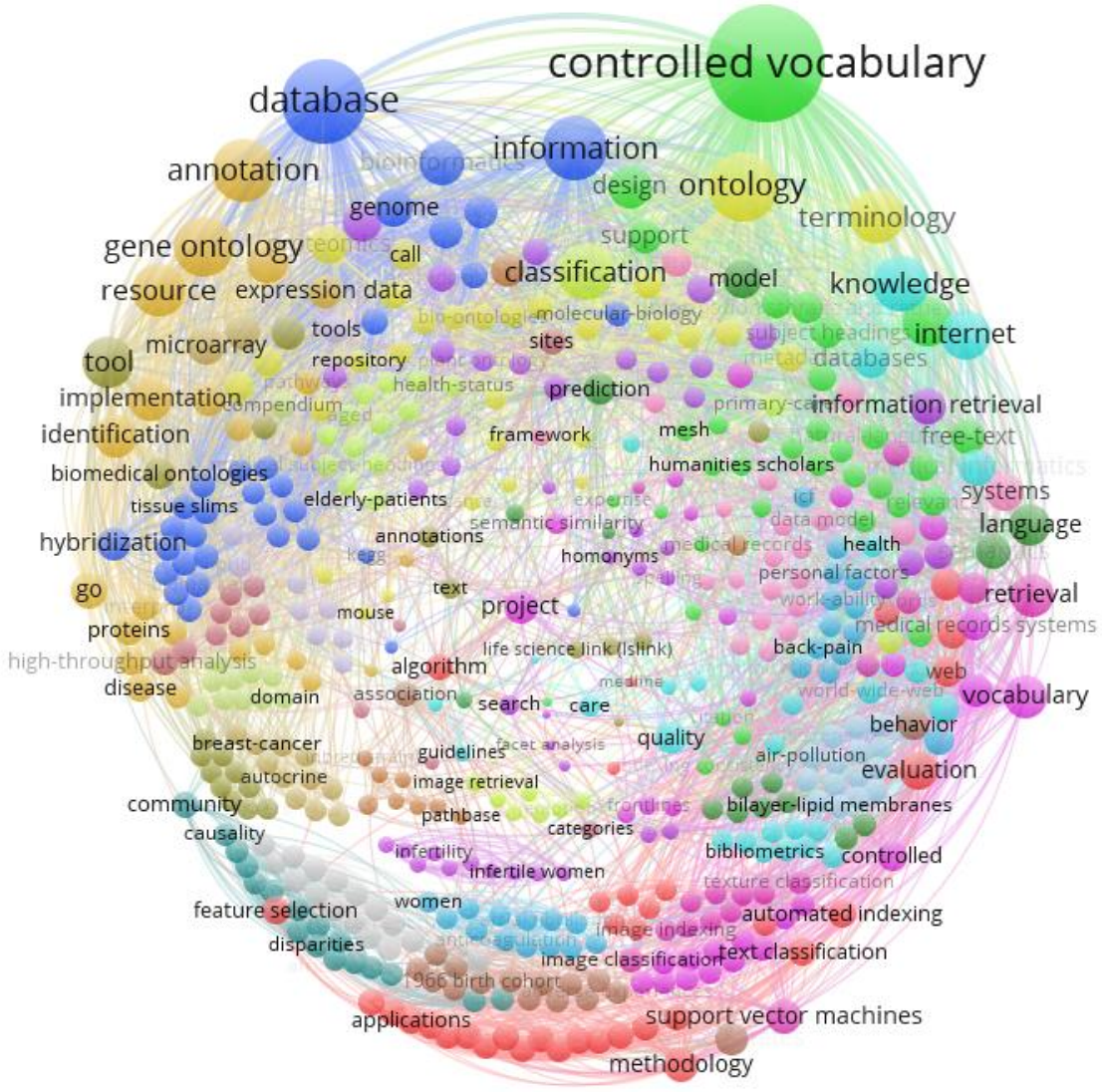
Degrees to rotate: 90

Rotate

Flip Horizontally

Flip Vertically

Network Visualization | Overlay Visualization | Density Visualization



Visualization

Scale:

Weights: Total link s...

Labels

Size variation:

Circles

Frames

Max. length: 100

Font: Open Sans

Lines

Size variation:

Lines: 4254

Colored lines

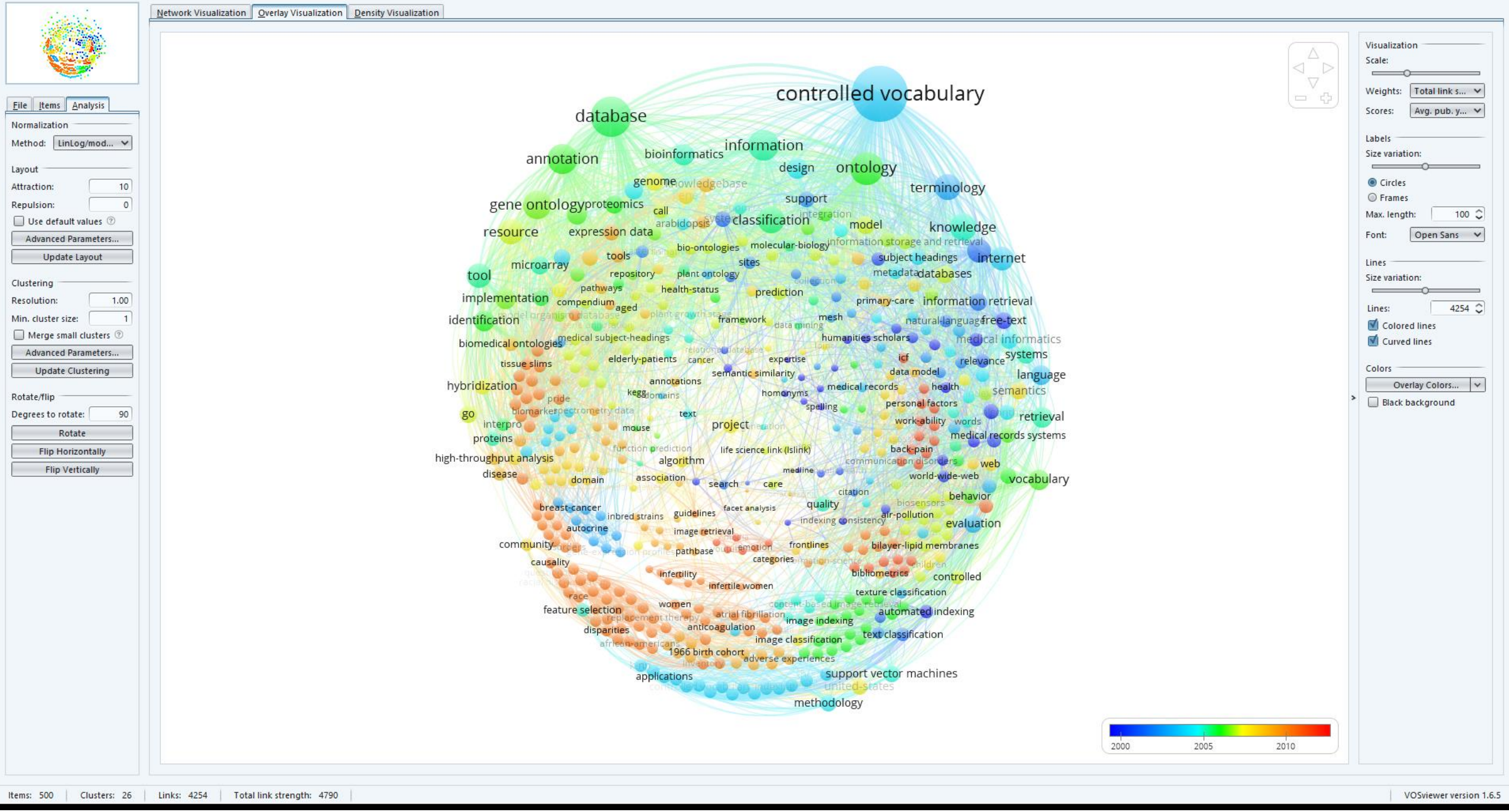
Curved lines

Colors

Cluster Colors...

Black background

Items: 500 | Clusters: 26 | Links: 4254 | Total link strength: 4790 | VOSviewer version 1.6.5


Network Visualization
Overlay Visualization
Density Visualization
File
Items
Analysis
Normalization
Method: LinLog/mod...
Layout
Attraction: 10
Repulsion: 0
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Update Layout
Clustering
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Advanced Parameters...
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Rotate/flip
Degrees to rotate: 90
Rotate
Flip Horizontally
Flip Vertically
controlled vocabulary
database
information
annotation
bioinformatics
design
ontology
terminology
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molecular-biology
tools
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microarray
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free-text
identification
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spelling
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text
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words
retrieval
go
interpro
mouse
project
medical records systems
proteins
life science link (lslink)
back-pain
high-throughput analysis
algorithm
communication disorders
web
disease
medline
world-wide-web
vocabulary
domain
association
search
care
citation
behavior
breast-cancer
facet analysis
quality
biosensors
inbred strains
guidelines
indexing consistency
air-pollution
evaluation
autocrine
image retrieval
community
frontlines
bilayer-lipid membranes
pathbase
categories
causality
bibliometrics
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2010
Visualization
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Weights: Total link s...
Scores: Avg. pub. y...
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Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans
Lines
Size variation:
Lines: 4254
Colored lines
Curved lines
Colors
Overlay Colors...
Black background
Items: 500
Clusters: 26
Links: 4254
Total link strength: 4790
VOSviewer version 1.6.5

File | Items | Analysis

Normalization

Method: LinLog/mod...

Layout

Attraction: 10

Repulsion: 0

☐ Use default values

Advanced Parameters...

Update Layout

Clustering

Resolution: 1.00

Min. cluster size: 1

☐ Merge small clusters

Advanced Parameters...

Update Clustering

Rotate/flip

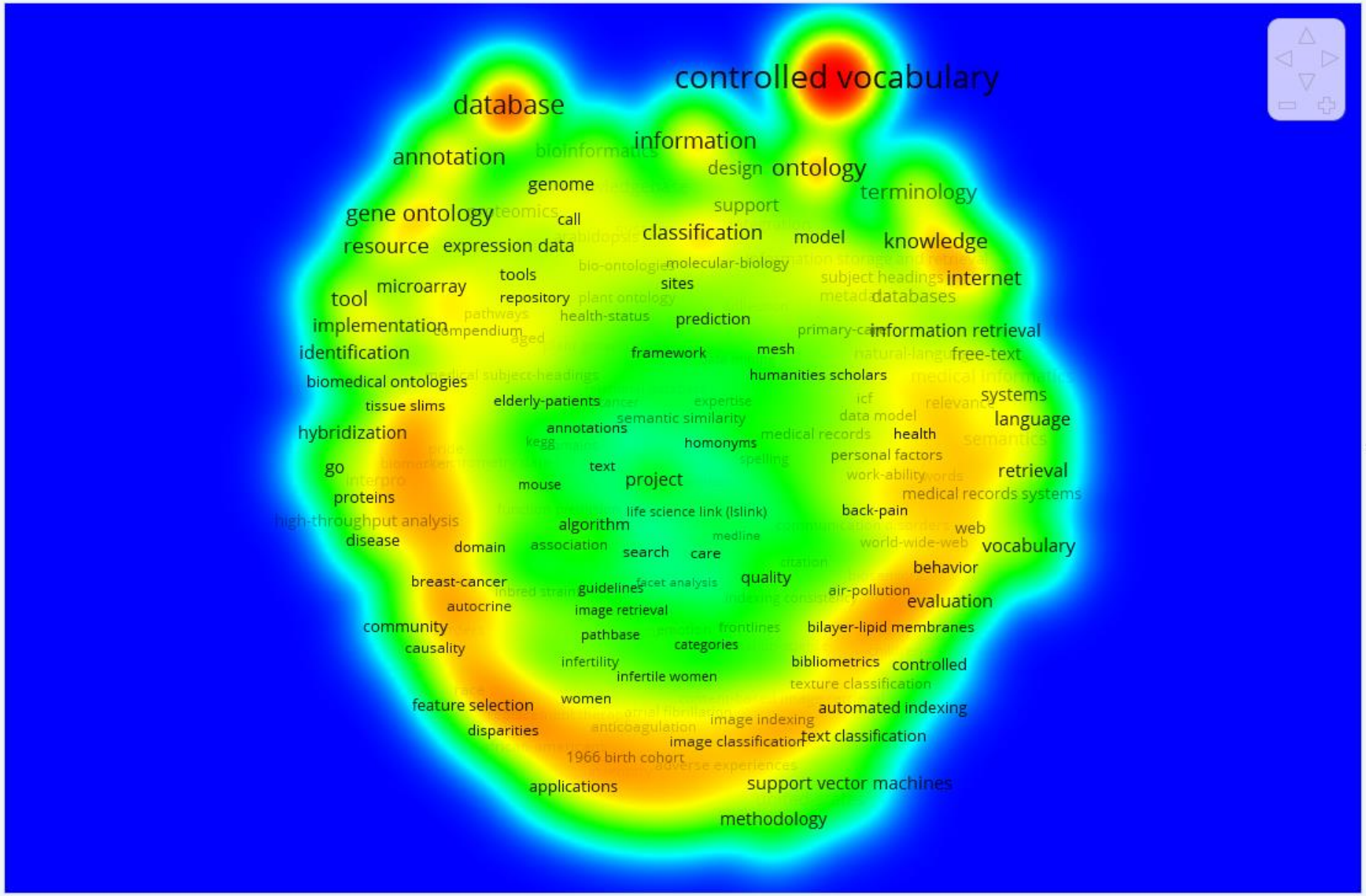
Degrees to rotate: 90

Rotate

Flip Horizontally

Flip Vertically

Network Visualization | Overlay Visualization | Density Visualization



Visualization

Scale:

Weights: Total link s...

Labels

Size variation:

Max. length: 100

Font: Open Sans

Density

Kernel width:

◉ Item density

○ Cluster density

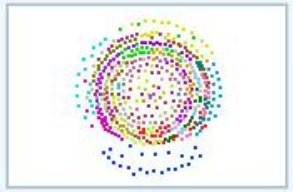
Colors

Density Colors...

Cluster Colors...

☐ White background

Items: 500 | Clusters: 26 | Links: 4254 | Total link strength: 4790 | VOSviewer version 1.6.5



File | Items | Analysis

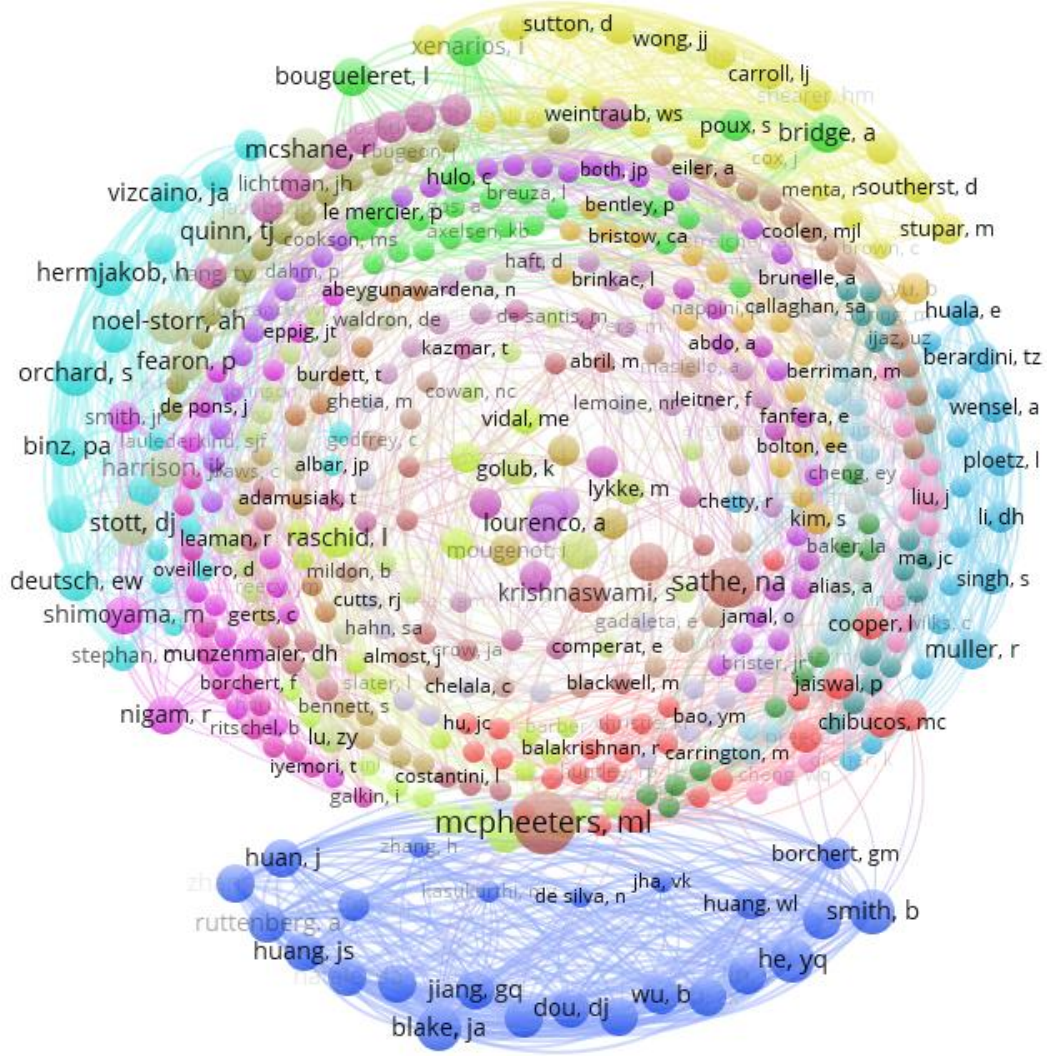
Map

Create...
Open...
Save...
Print...
Screenshot...

Info

Manual
About VOSviewer

Network Visualization | Overlay Visualization | Density Visualization



Visualization
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Weights: Documents

Labels
Size variation:
Circles
Frames
Max. length: 100
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Lines
Size variation:
Lines: 2716
Colored lines
Curved lines

Colors
Cluster Colors...
Black background

Items: 500 | Clusters: 50 | Links: 2716 | Total link strength: 3290 | VOSviewer version 1.6.5

File | Items | Analysis

Map

Create...
Open...
Save...
Print...
Screenshot...

Info

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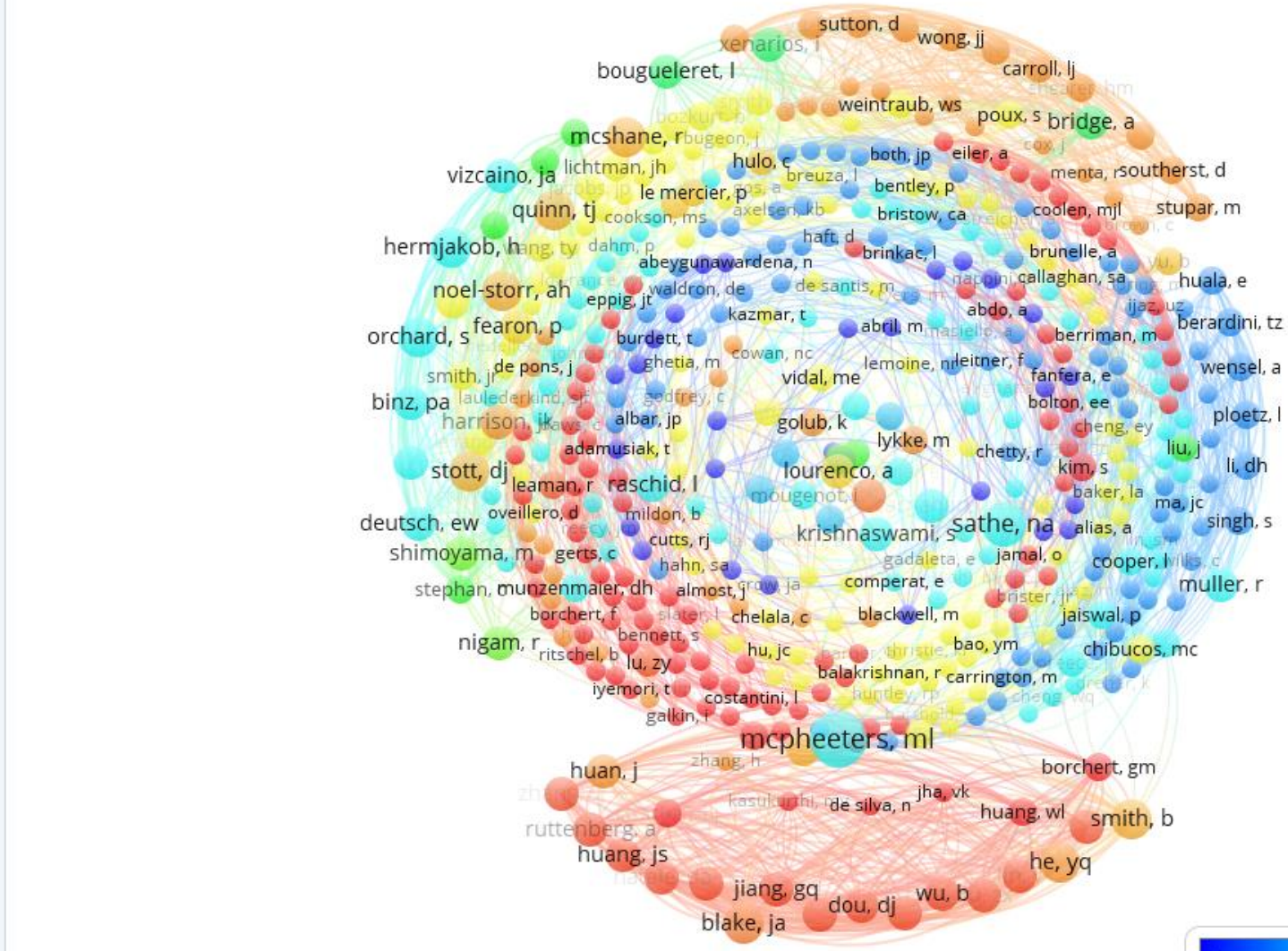
About VOSviewer

Network Visualization | Overlay Visualization | Density Visualization



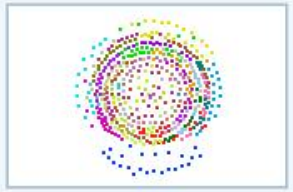
Visualization
Scale:
Weights: Documents
Scores: Avg. pub. y...

Labels
Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans

Lines
Size variation:
Lines: 2716
Colored lines
Curved lines

Colors
Overlay Colors...
Black background

Items: 500 | Clusters: 50 | Links: 2716 | Total link strength: 3290 | VOSviewer version 1.6.5



File | Items | Analysis

Map

Create...
Open...
Save...
Print...
Screenshot...

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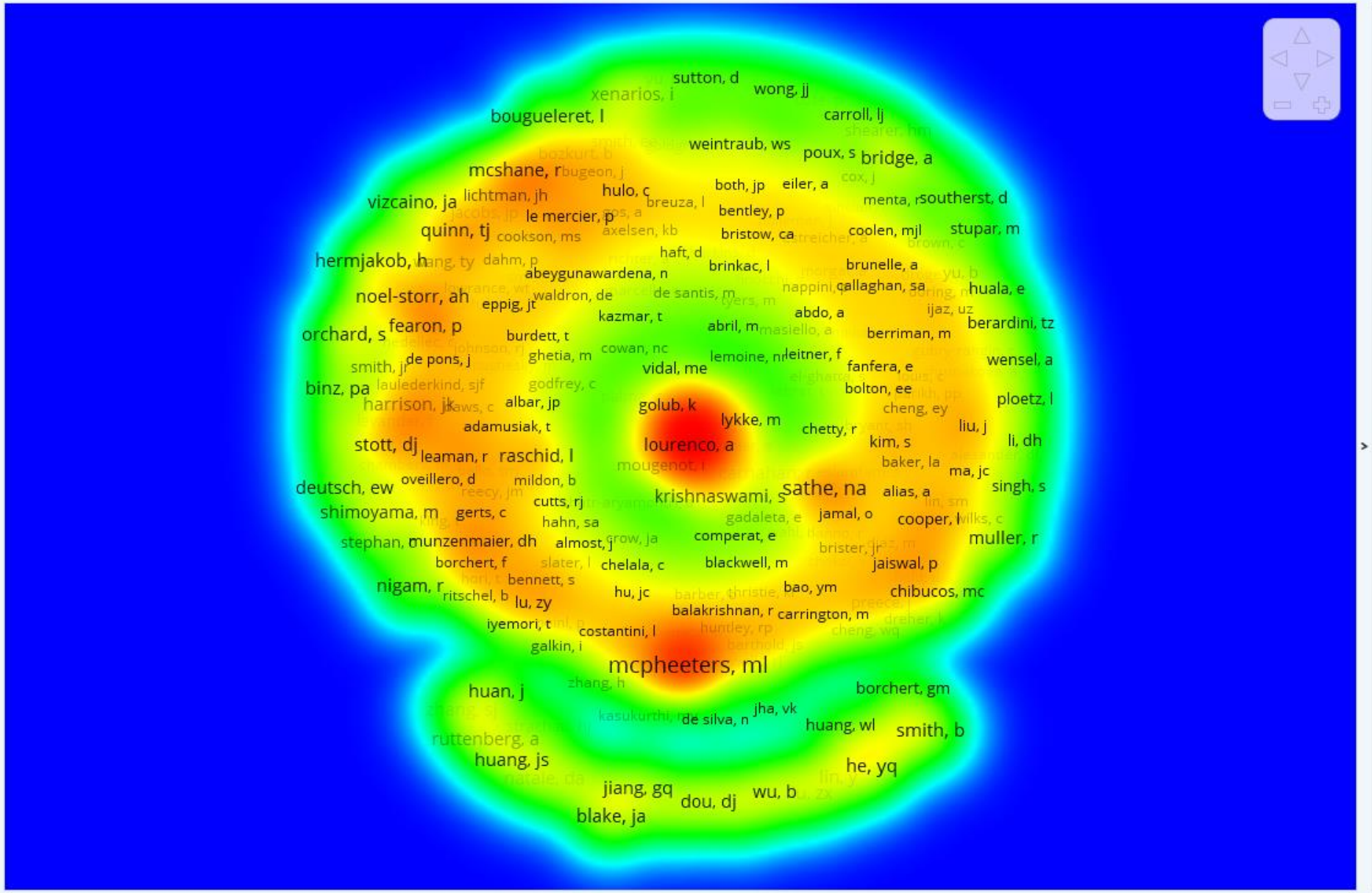


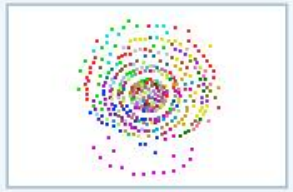
Visualization
Scale:
Weights: Documents

Labels
Size variation:
Max. length: 100
Font: Open Sans

Density
Kernel width:
Item density
Cluster density

Colors
Density Colors...
Cluster Colors...
White background

Items: 500 | Clusters: 50 | Links: 2716 | Total link strength: 3290 | VOSviewer version 1.6.5



File | Items | Analysis

Map

Create...
Open...
Save...
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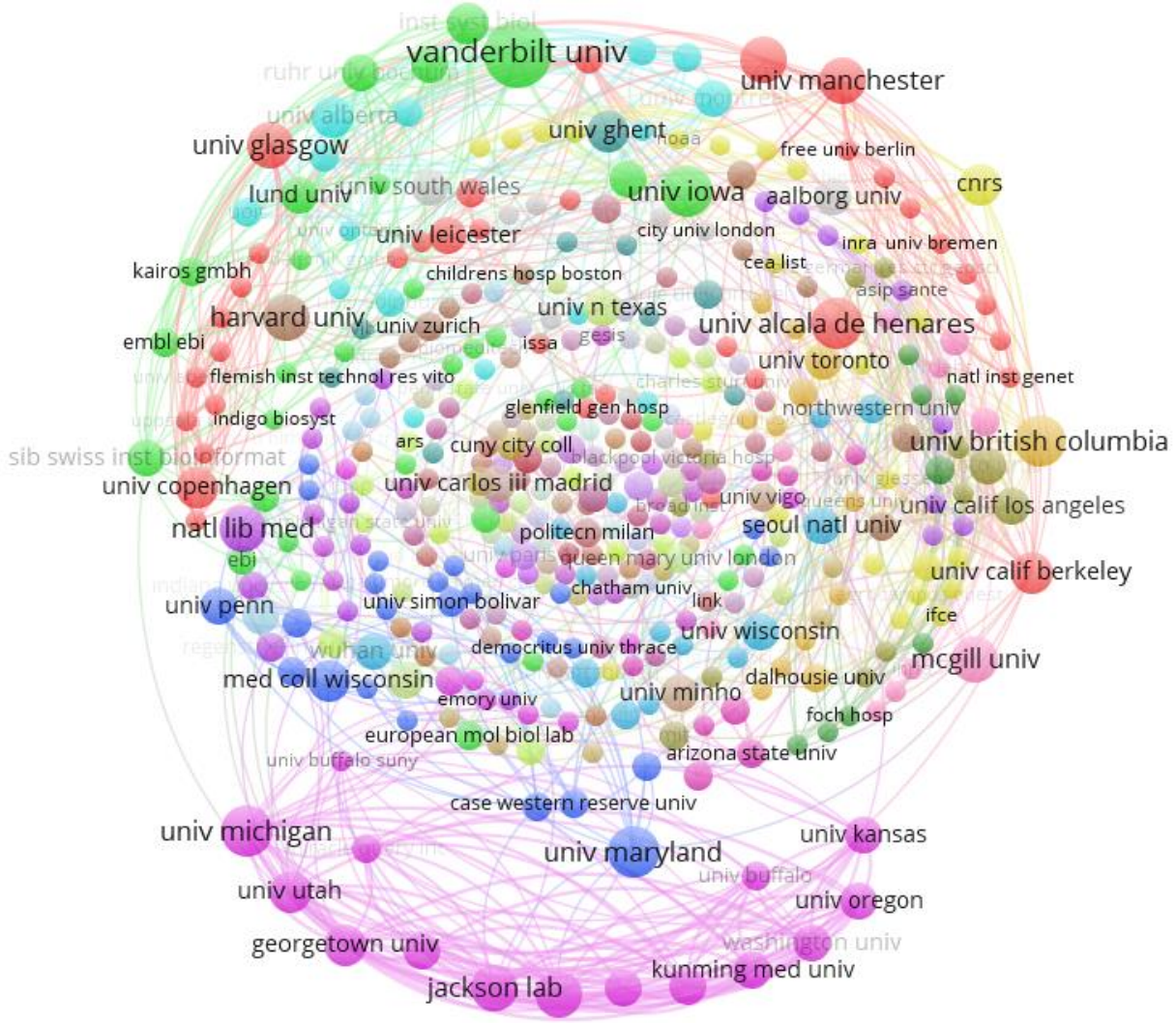

Visualization
Scale:
Weights: Documents

Labels
Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans

Lines
Size variation:
Lines: 983
Colored lines
Curved lines

Colors
Cluster Colors...
Black background

Items: 500 | Clusters: 151 | Links: 983 | Total link strength: 1168 | VOSviewer version 1.6.5

File | Items | Analysis

Map

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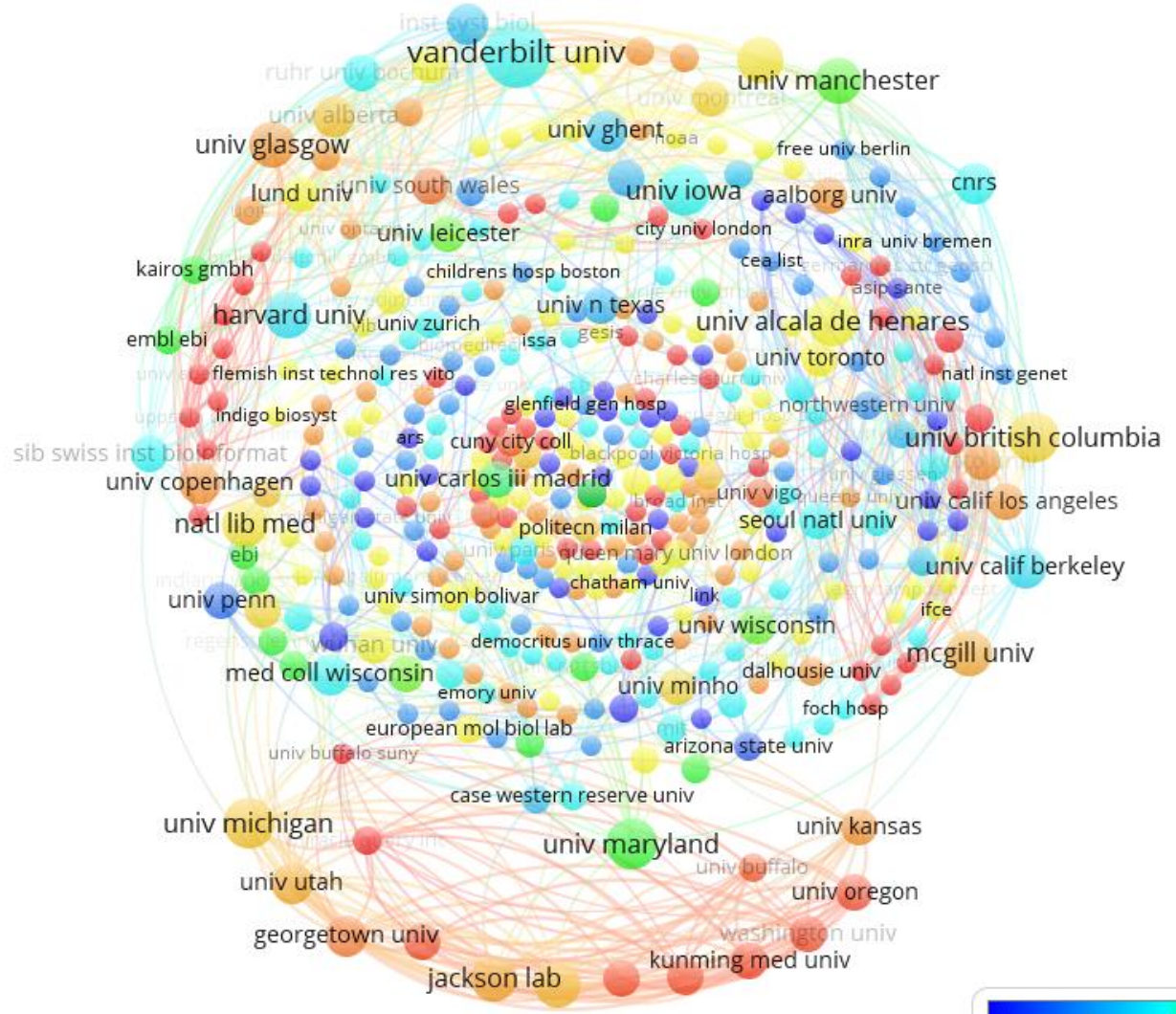


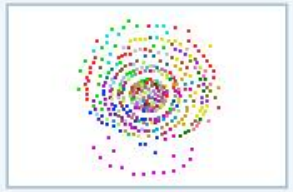
Visualization
Scale:
Weights: Documents
Scores: Avg. pub. y...

Labels
Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans

Lines
Size variation:
Lines: 983
Colored lines
Curved lines

Colors
Overlay Colors...
Black background

Items: 500 | Clusters: 151 | Links: 983 | Total link strength: 1168 | VOSviewer version 1.6.5



File | Items | Analysis

Map

Create...
Open...
Save...
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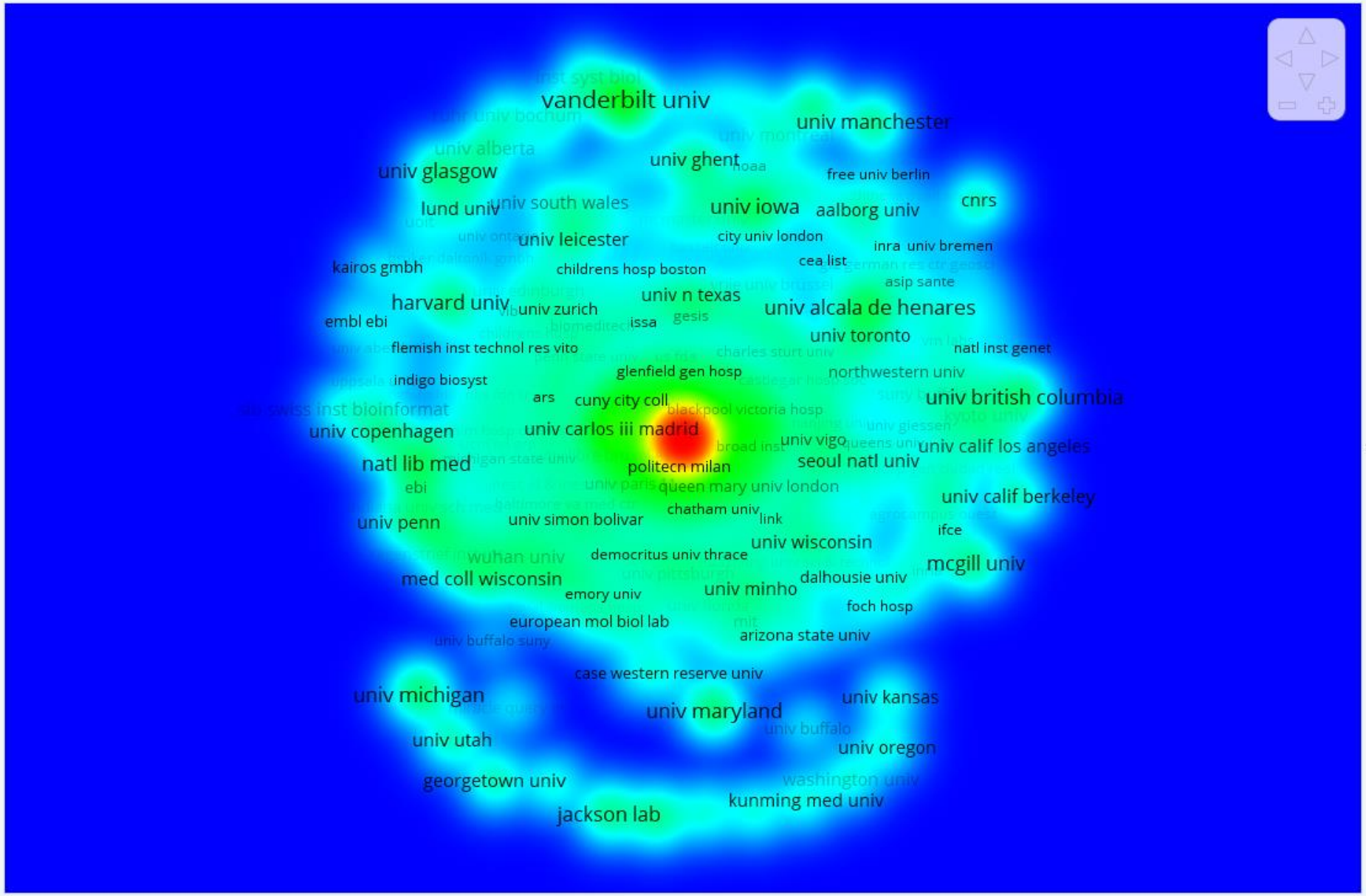


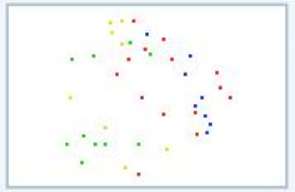
Visualization
Scale:
Weights: Documents

Labels
Size variation:
Max. length: 100
Font: Open Sans

Density
Kernel width:
Item density
Cluster density

Colors
Density Colors...
Cluster Colors...
White background

Items: 500 | Clusters: 151 | Links: 983 | Total link strength: 1168 | VOSviewer version 1.6.5



File | Items | Analysis

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Save...
Print...
Screenshot...

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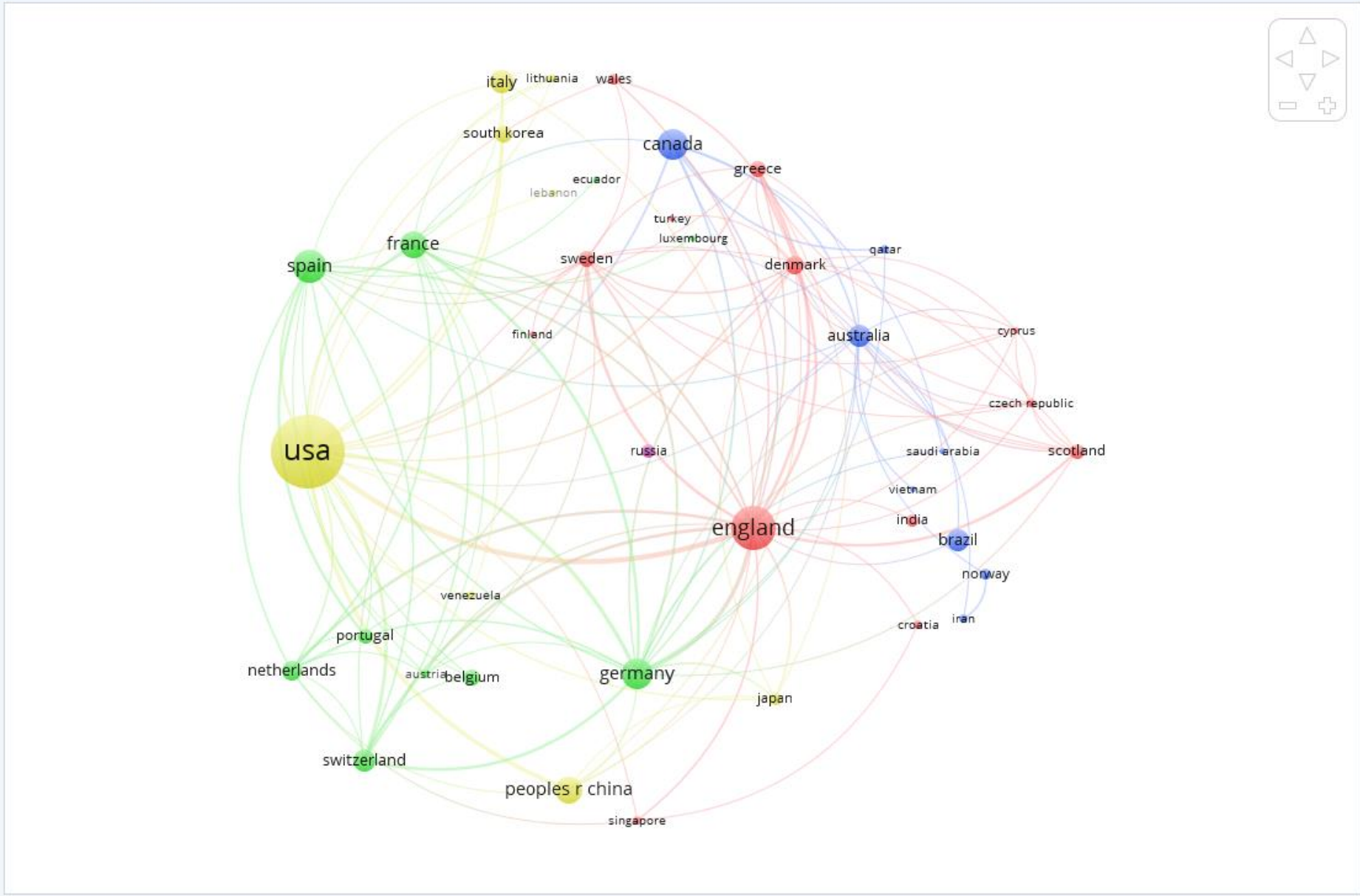

Visualization
Scale:
Weights: Documents

Labels
Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans

Lines
Size variation:
Lines: 133
Colored lines
Curved lines

Colors
Cluster Colors...
Black background

Items: 50 | Clusters: 15 | Links: 133 | Total link strength: 253 | VOSviewer version 1.6.5

File | Items | Analysis

Map

Create...
Open...
Save...
Print...
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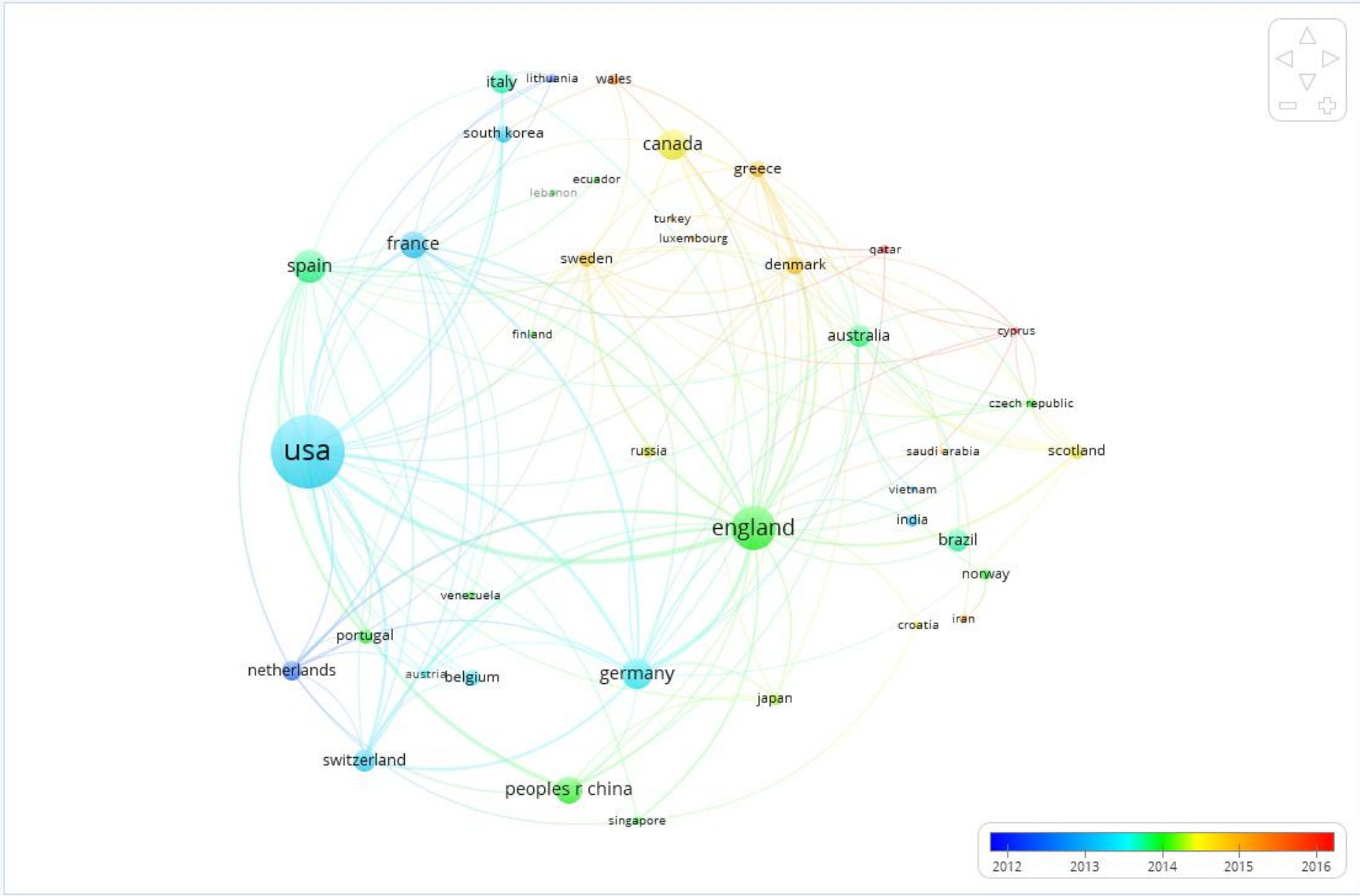


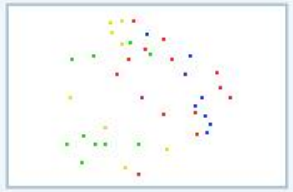
Visualization
Scale:
Weights: Documents
Scores: Avg. pub. y...

Labels
Size variation:
Circles
Frames
Max. length: 100
Font: Open Sans

Lines
Size variation:
Lines: 133
Colored lines
Curved lines

Colors
Overlay Colors...
Black background

Items: 50 | Clusters: 15 | Links: 133 | Total link strength: 253 | VOSviewer version 1.6.5



File | Items | Analysis

Map

Create...
Open...
Save...
Print...
Screenshot...

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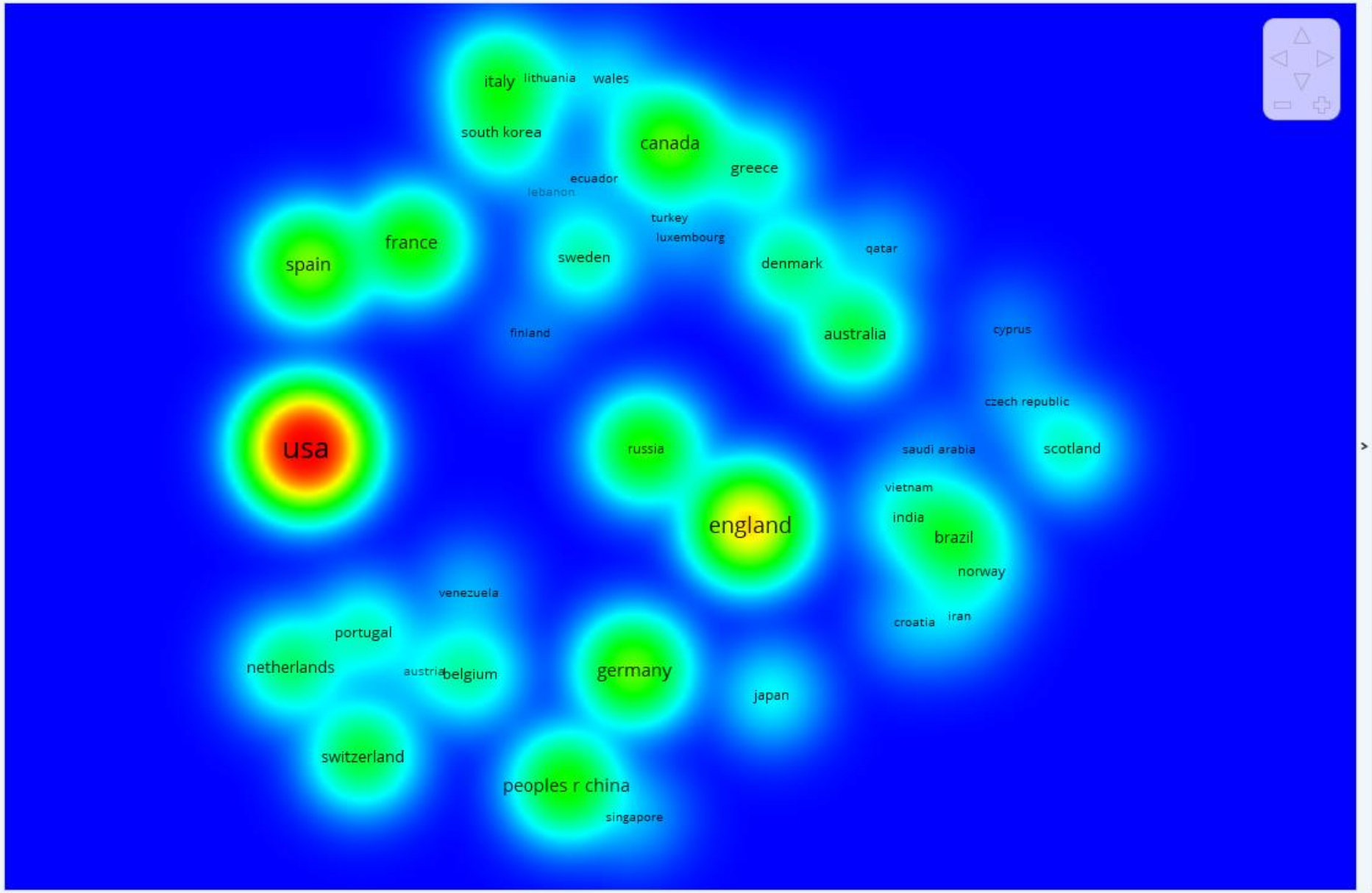

Visualization
Scale:
Weights: Documents

Labels
Size variation:
Max. length: 100
Font: Open Sans

Density
Kernel width:
Item density
Cluster density

Colors
Density Colors...
Cluster Colors...
White background

Items: 50 | Clusters: 15 | Links: 133 | Total link strength: 253 | VOSviewer version 1.6.5