

VOSviewer

A Computer Program for Bibliometric Mapping

Nees Jan van Eck and Ludo Waltman

Centre for Science and Technology Studies, Leiden University, The Netherlands

Econometric Institute, Erasmus School of Economics, Erasmus University Rotterdam, The Netherlands

{ecknjpvan,waltmanlr}@cwts.leidenuniv.nl

Modelling Science Workshop - Understanding, Forecasting, and Communicating the Science System

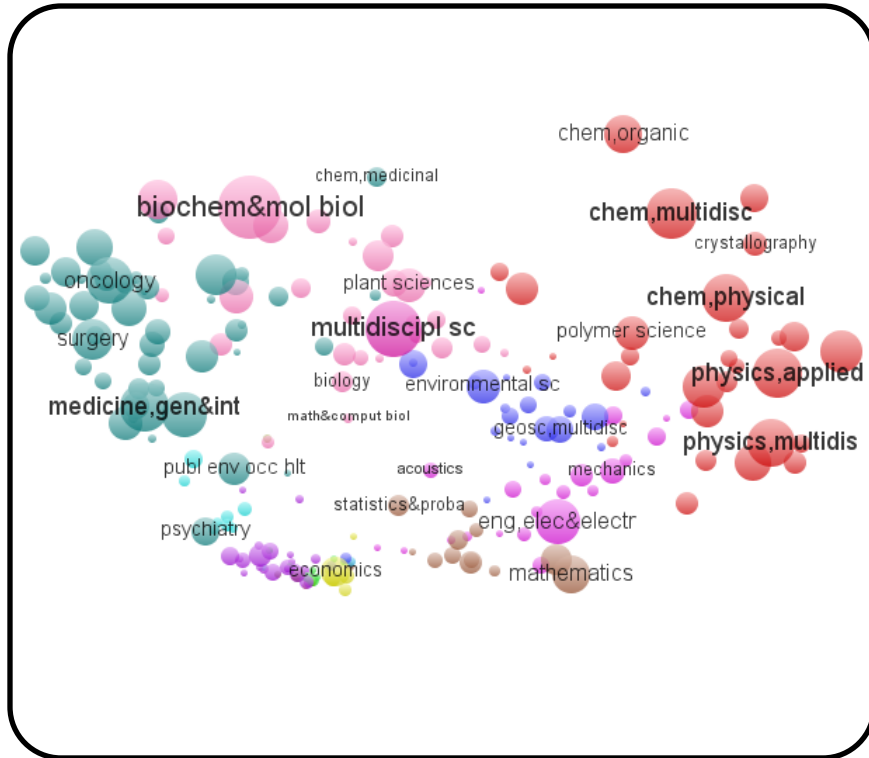
Amsterdam, October 6-9, 2009



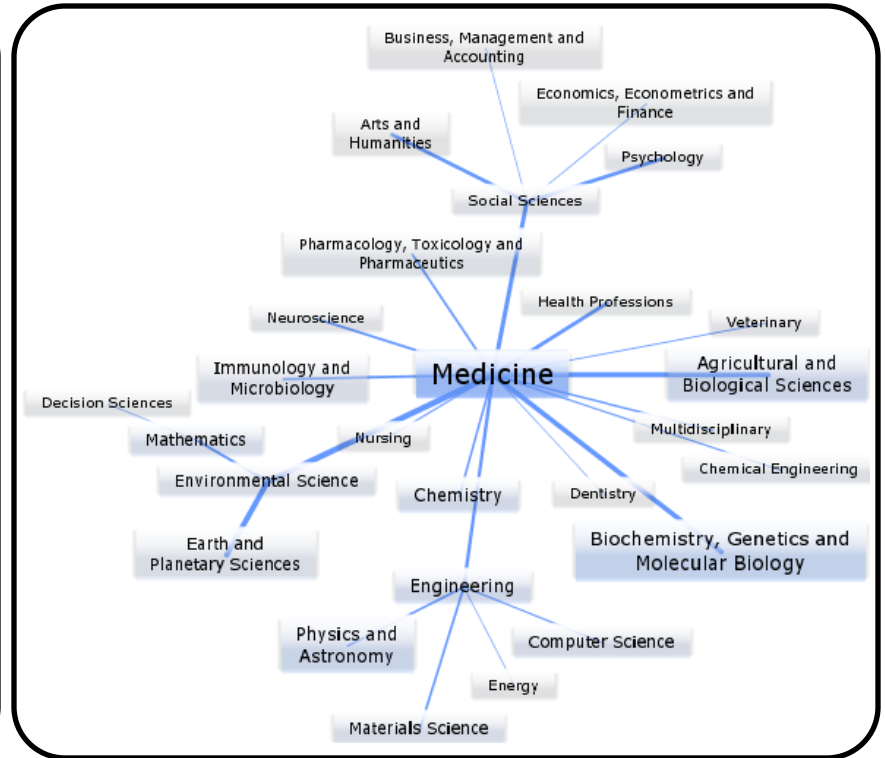
Universiteit Leiden
The Netherlands



Types of bibliometric maps



distance-based map



graph-based map



VOSviewer

1. Tool for constructing bibliometric maps
 - uses VOS mapping technique for constructing distance-based maps based on co-occurrence data
2. Viewer for examining maps in full detail
 - can show a map in various different ways
 - offers functionality such as zooming, scrolling, and searching



VOSviewer demonstration

- Journal co-citation data
 - WoS subject categories:
 - Business
 - Business, Finance
 - Economics
 - Management
 - Operations research & management science
 - 232 journals

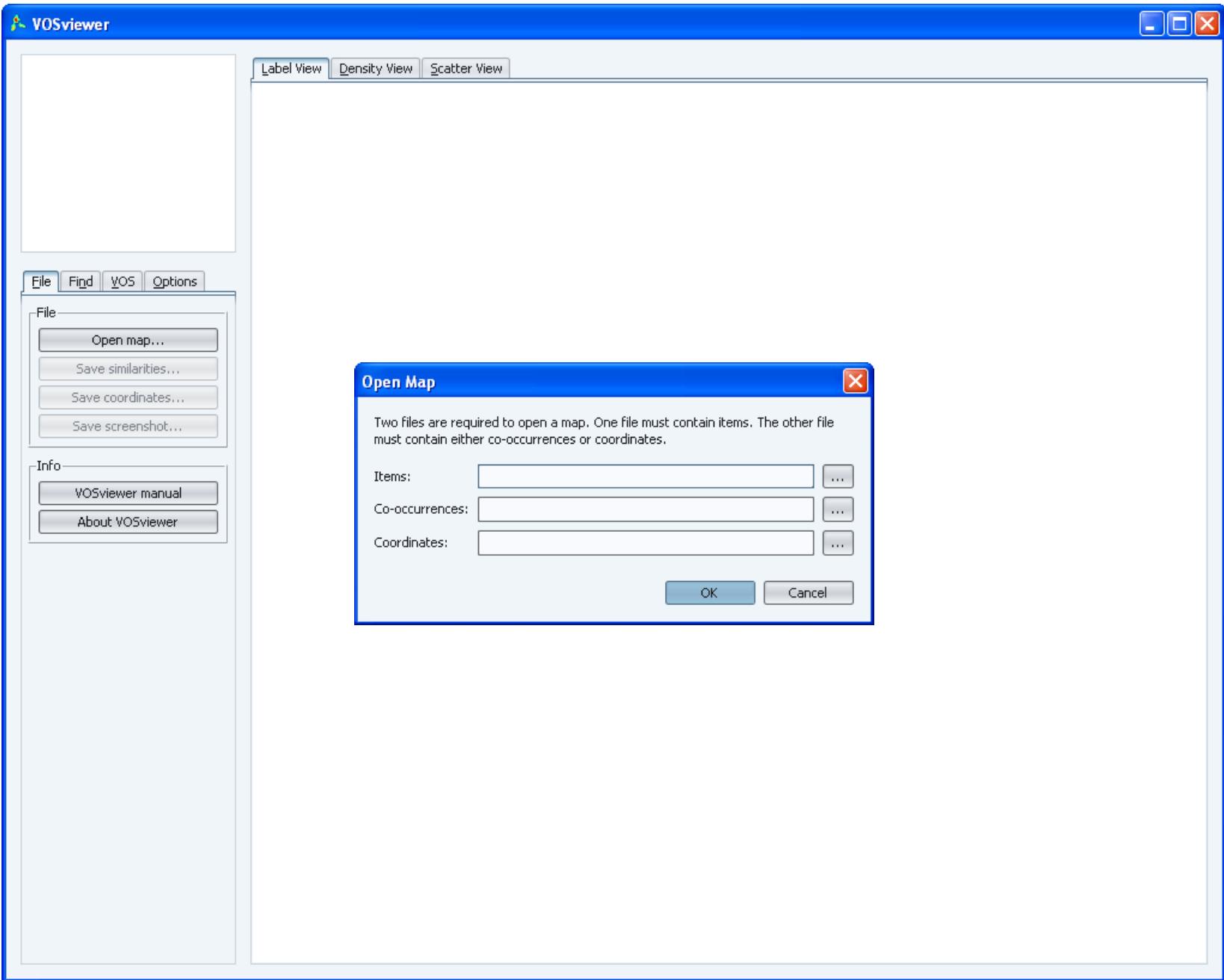


VOSviewer website

www.vosviewer.com

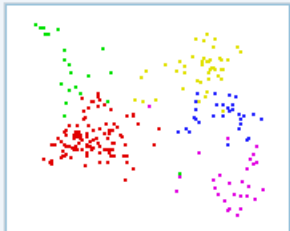
- Use this website to:
 - download VOSviewer
 - run VOSviewer directly
 - find more information on the
 - functionality
 - technical implementation
 - view applications to some example data sets







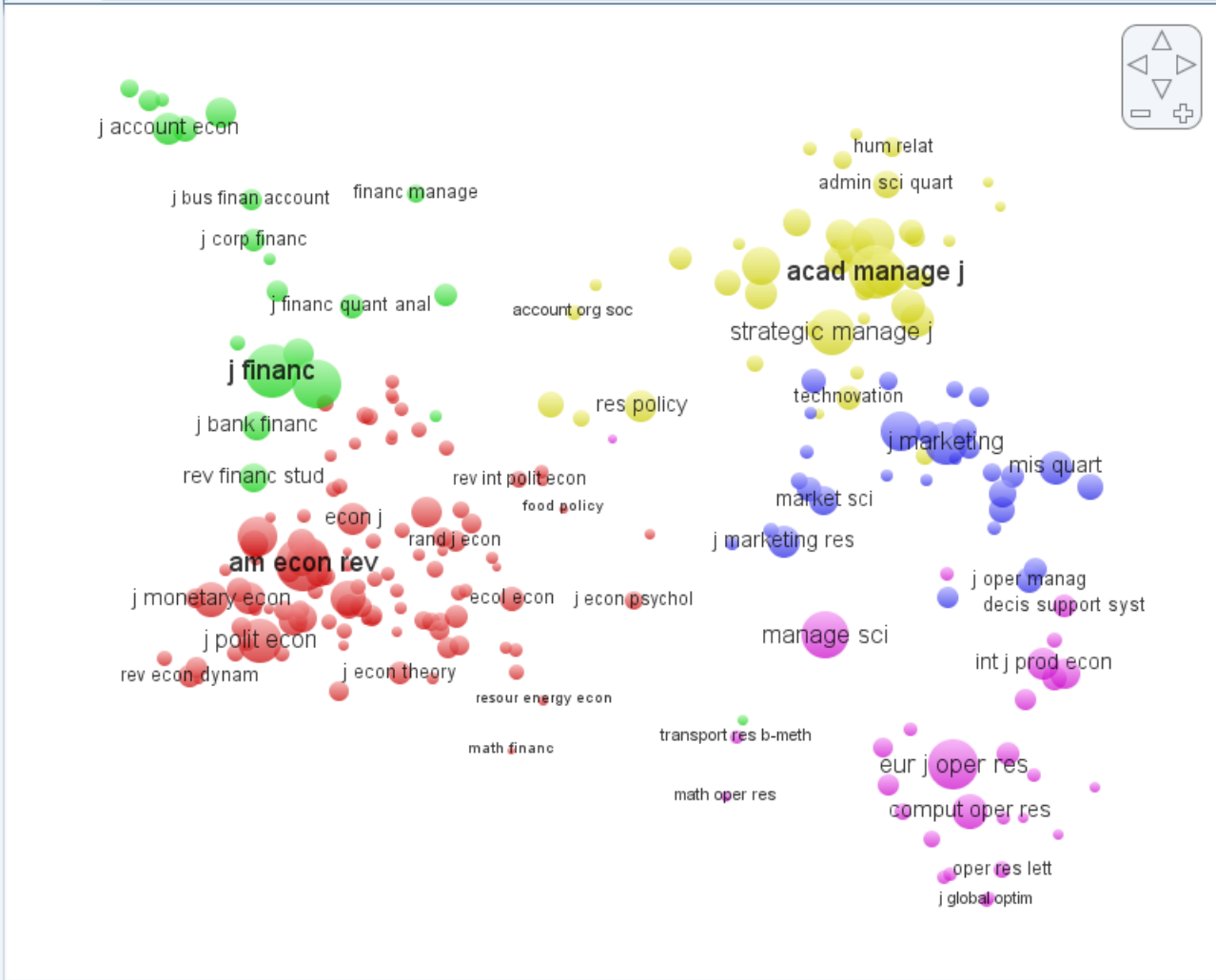
Label View Density View Cluster Density View Scatter View



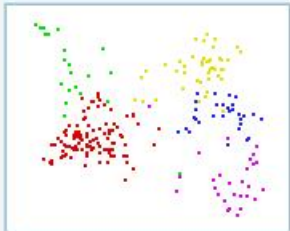
File Find VOS Options

- File
 - Open map...
 - Save similarities...
 - Save coordinates...
 - Save screenshot...

- Info
 - VOSviewer manual
 - About VOSviewer



Journal name: JOURNAL OF FINANCE
Subject category: BUSINESS, FINANCE

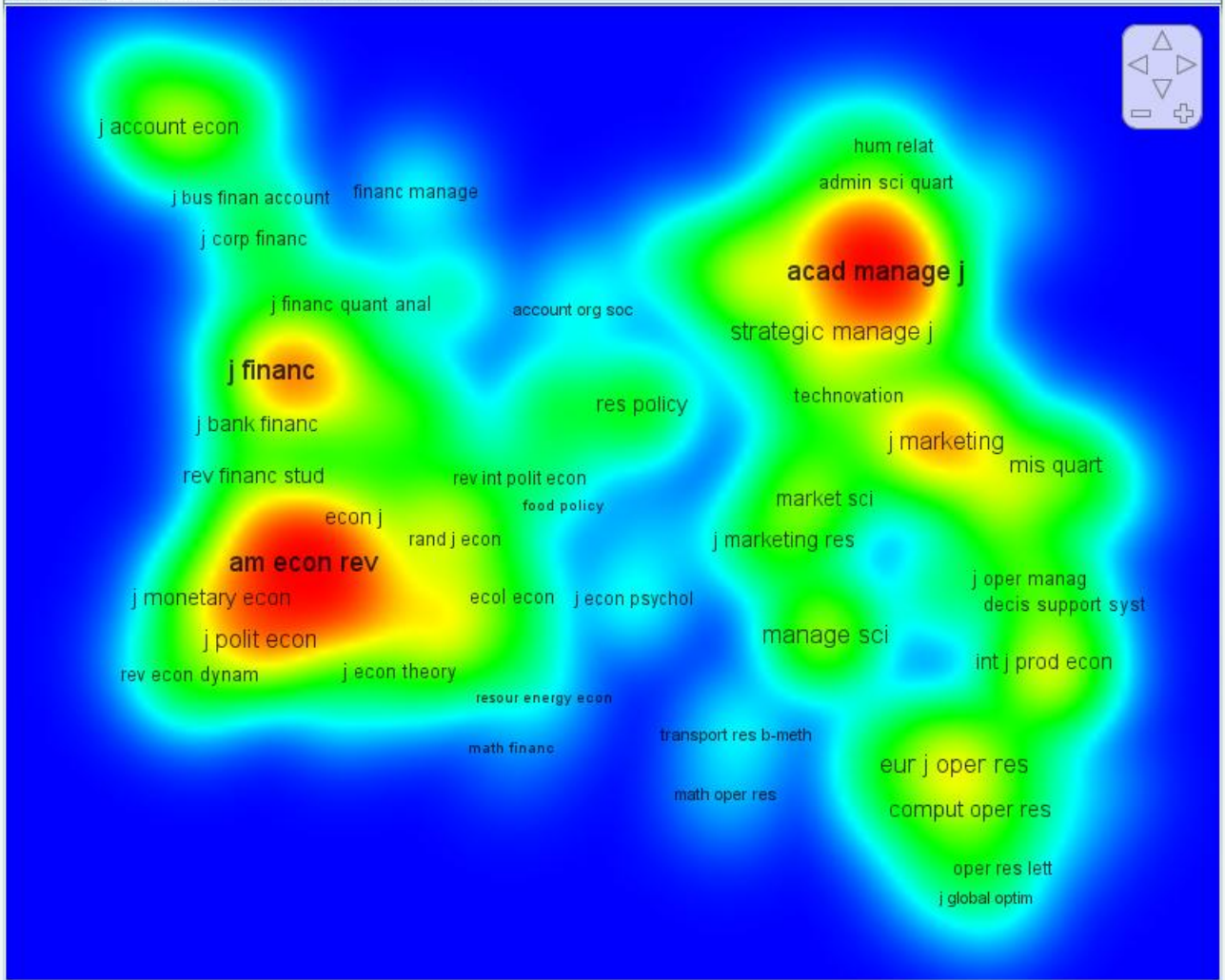


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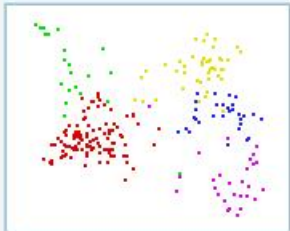
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File Find VOS Options

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Save similarities...

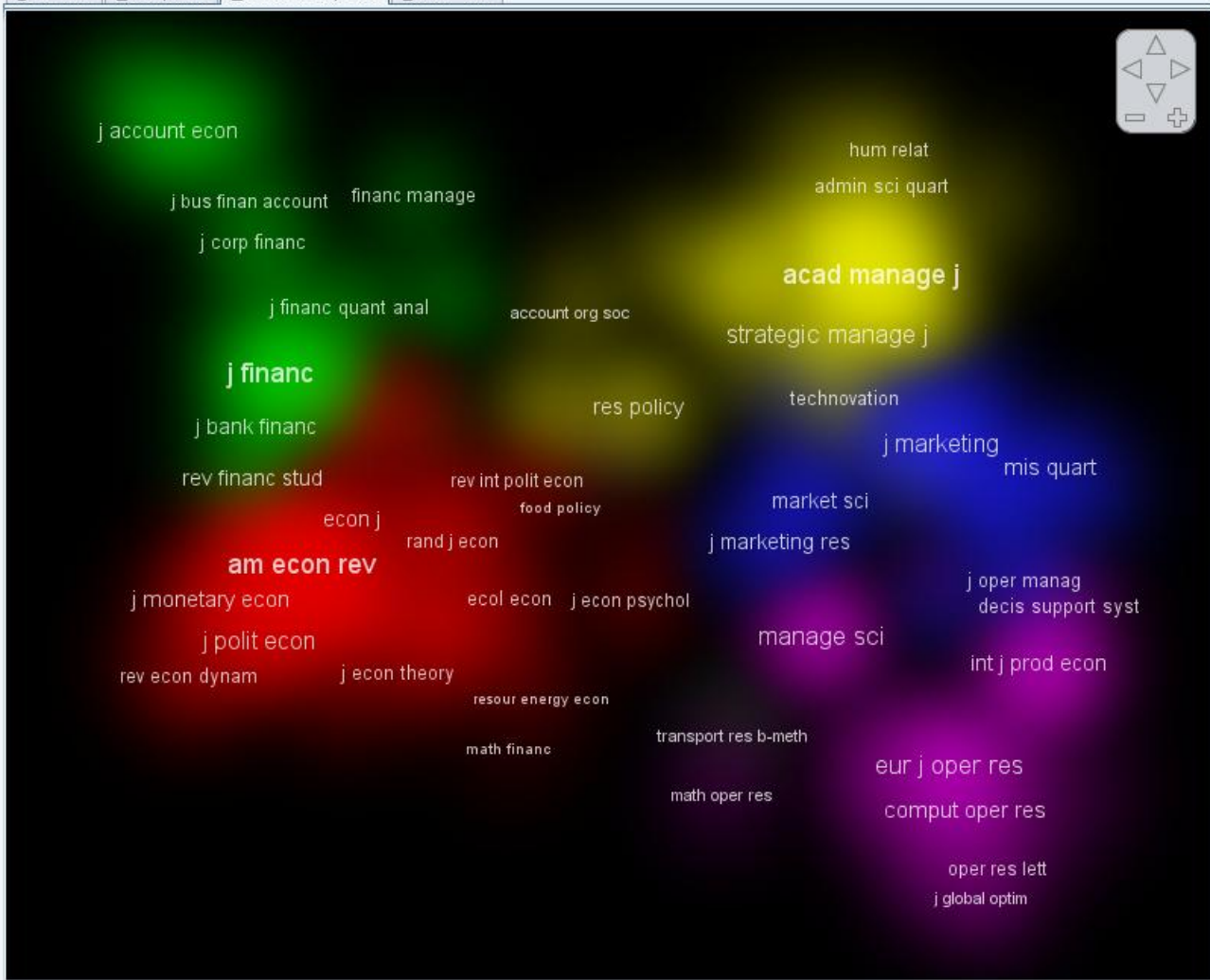
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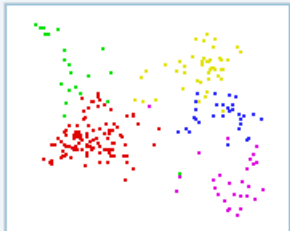
VOSviewer manual

About VOSviewer



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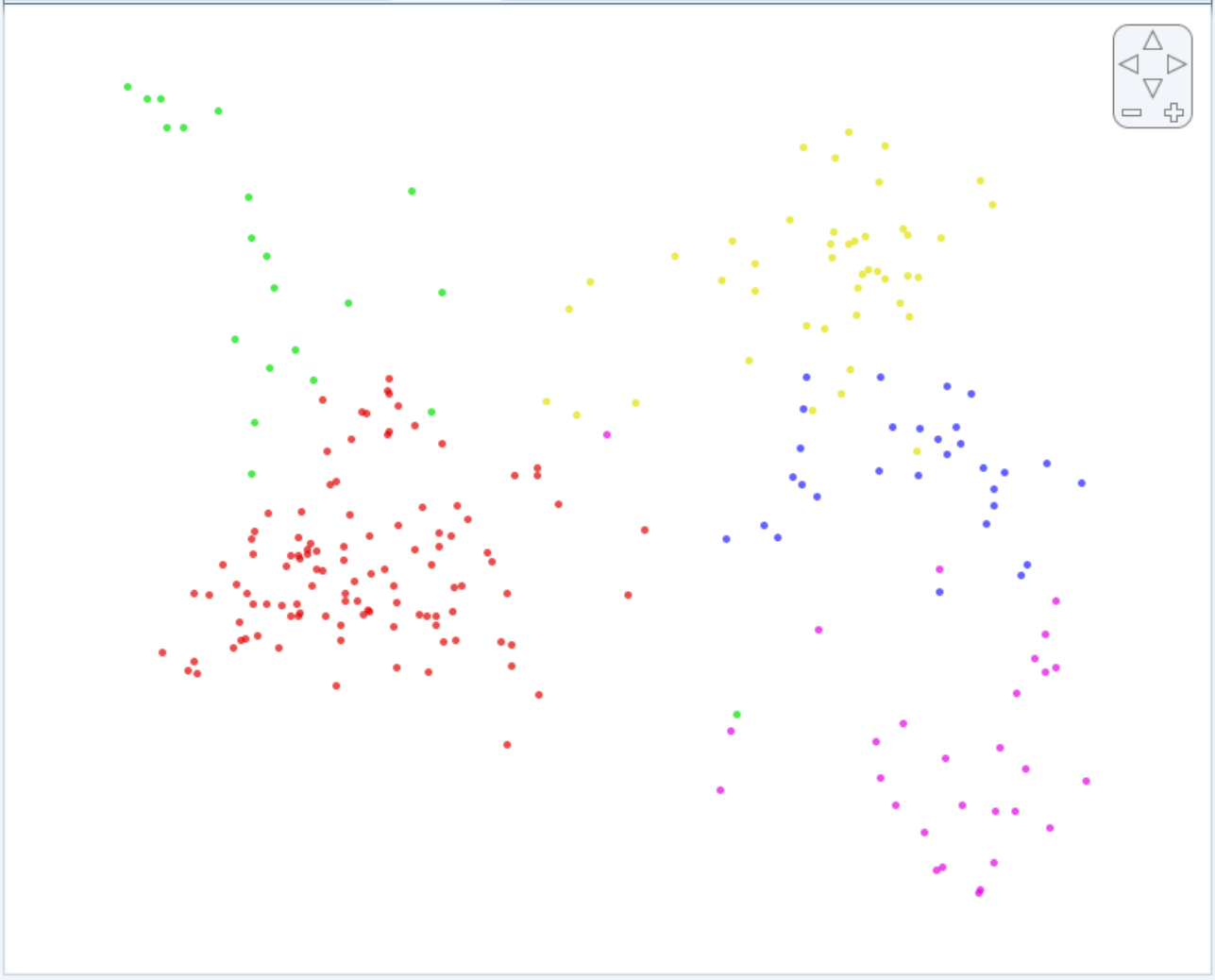
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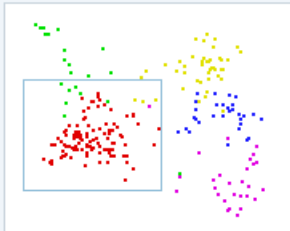
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Label View Density View Cluster Density View Scatter View

File Find VOS Options

Find items

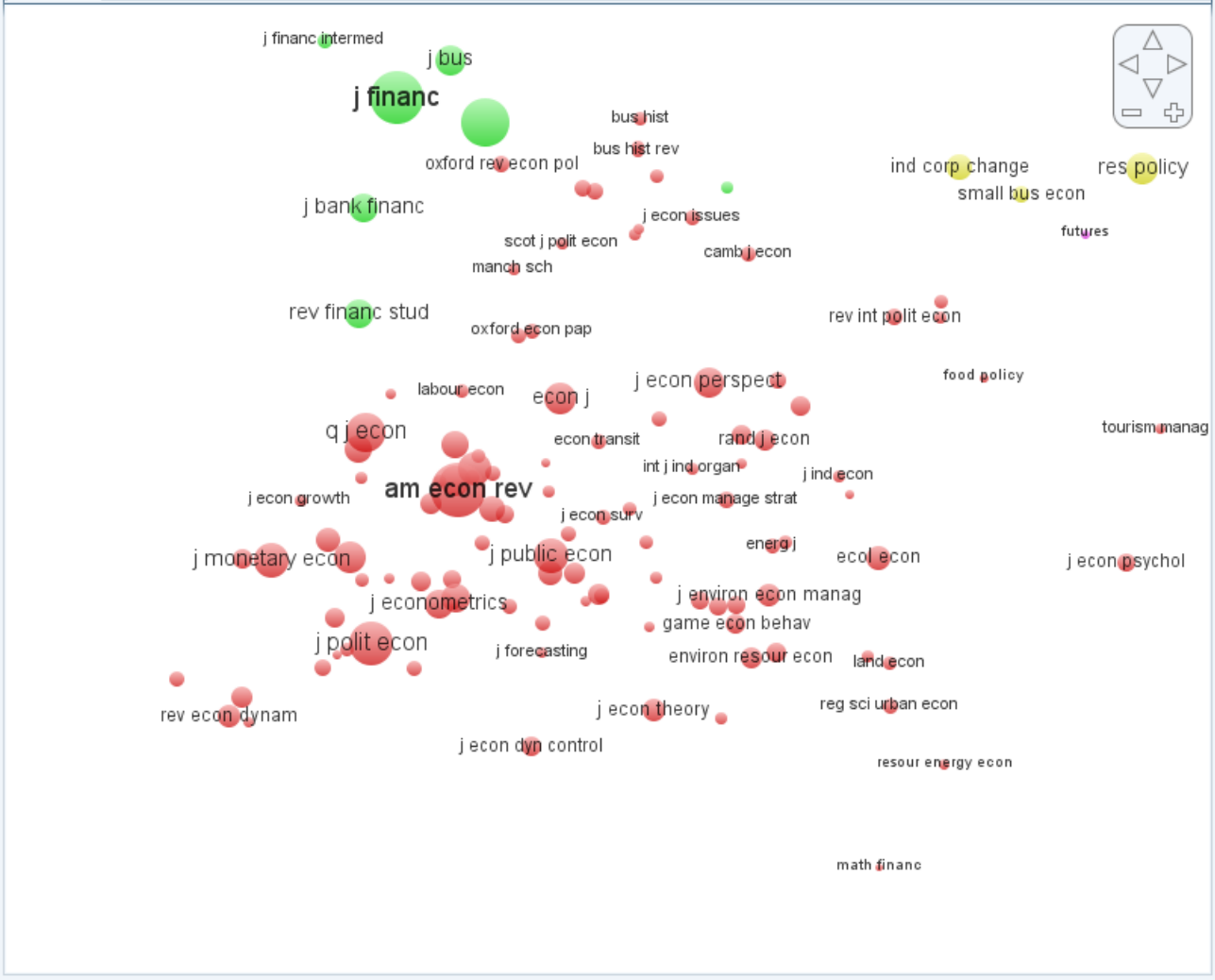
Search: econ

Find

Show item

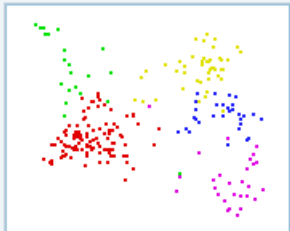
- am econ rev
- am j agr econ
- am j econ social
- appl econ
- appl econ lett
- camb j econ
- can j econ
- ecol econ
- econ dev cult change
- econ educ rev
- econ geogr
- econ hist rev
- econ inq
- econ j
- econ lett
- econ model
- econ policy
- econ soc
- econ theor
- econ transit
- economet rev
- economet theor
- econometrica
- energ econ

Show



Journal name: AMERICAN ECONOMIC REVIEW

Subject category: ECONOMICS



Label View Density View Cluster Density View Scatter View

File Find VOS Options

Labels

Size effect:

Max. length:

No overlap

Blurred background

Gradual appearance

Label view

Show labels and circles

Show labels and frames

Show labels only

Density view

Kernel width:

Color transformation:

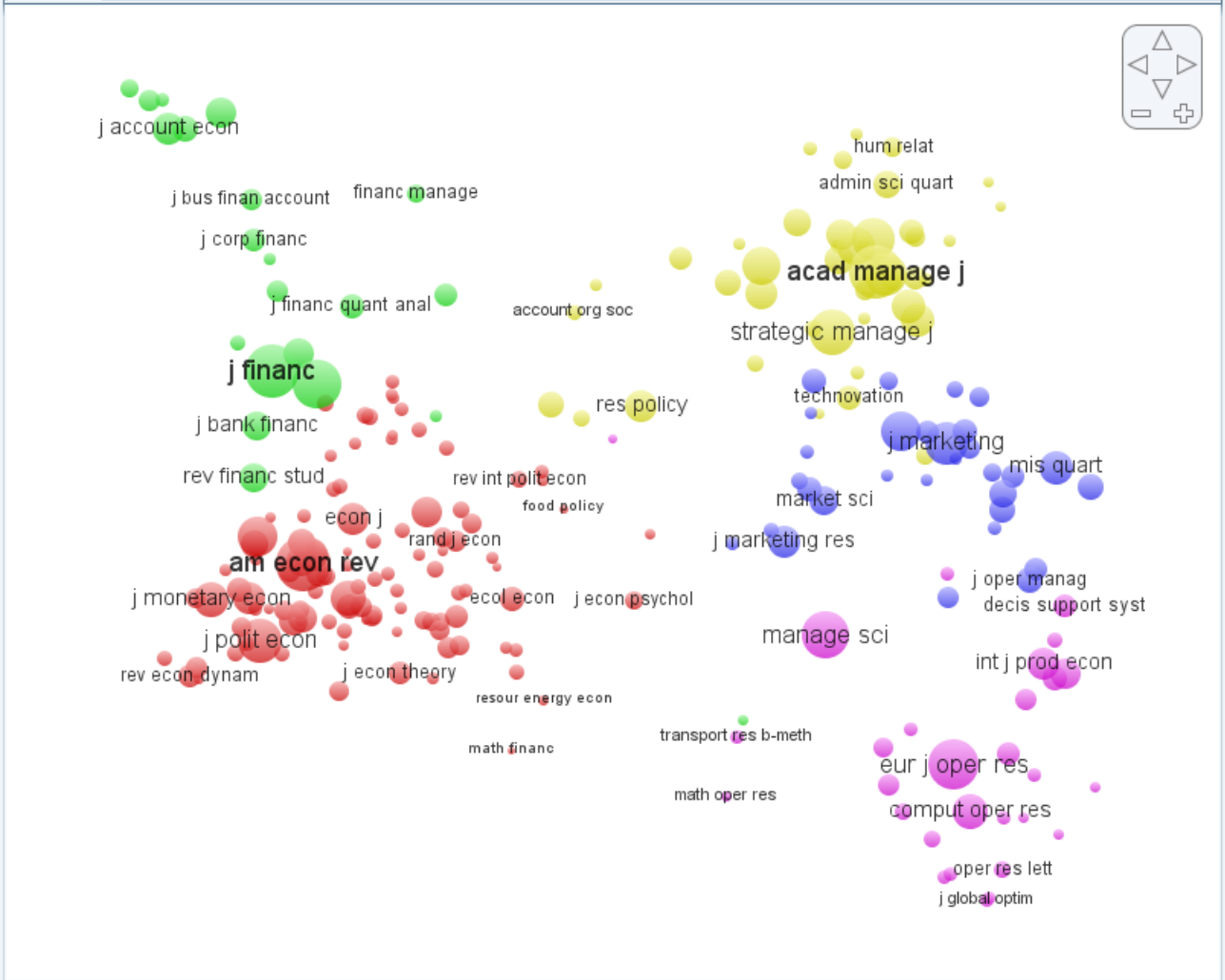
Color scheme:

Use white background in cluster density view

Files

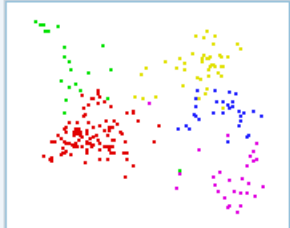
Use sparse format for similarities files

Ignore main diagonal in co-occurrences files



Journal name: JOURNAL OF FINANCE
Subject category: BUSINESS, FINANCE

Label View Density View Cluster Density View Scatter View



File Find VOS Options

Labels

Size effect:



Max. length:

30

No overlap

Blurred background

Gradual appearance

Label view

Show labels and circles

Show labels and frames

Show labels only

Density view

Kernel width:



Color transformation:



Color scheme:

Blue-green-red

Use white background in cluster density view

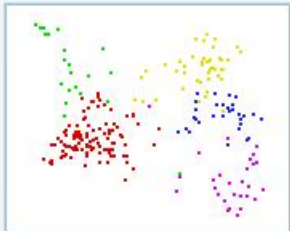
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Color transformation:

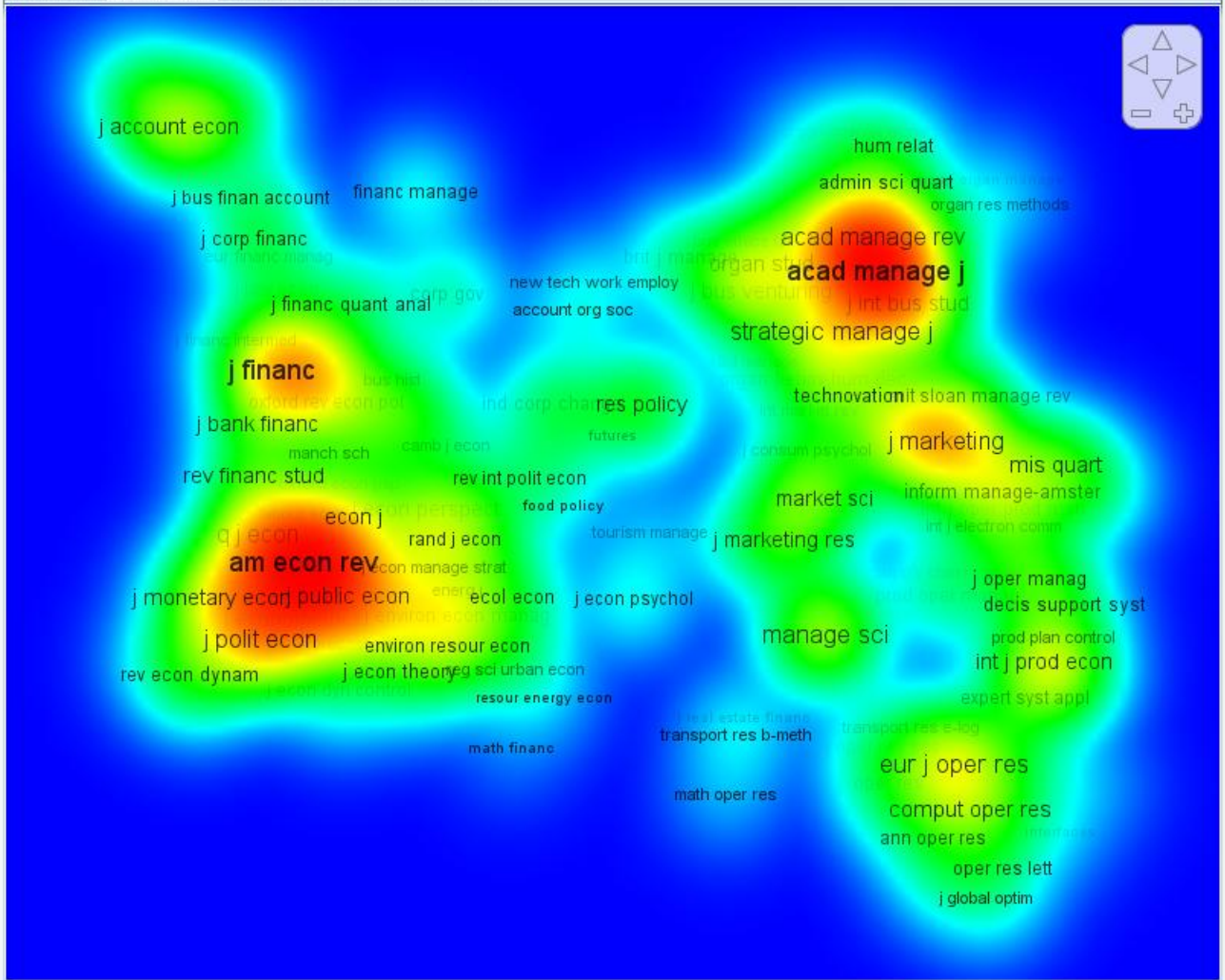
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Files

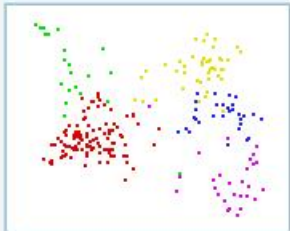
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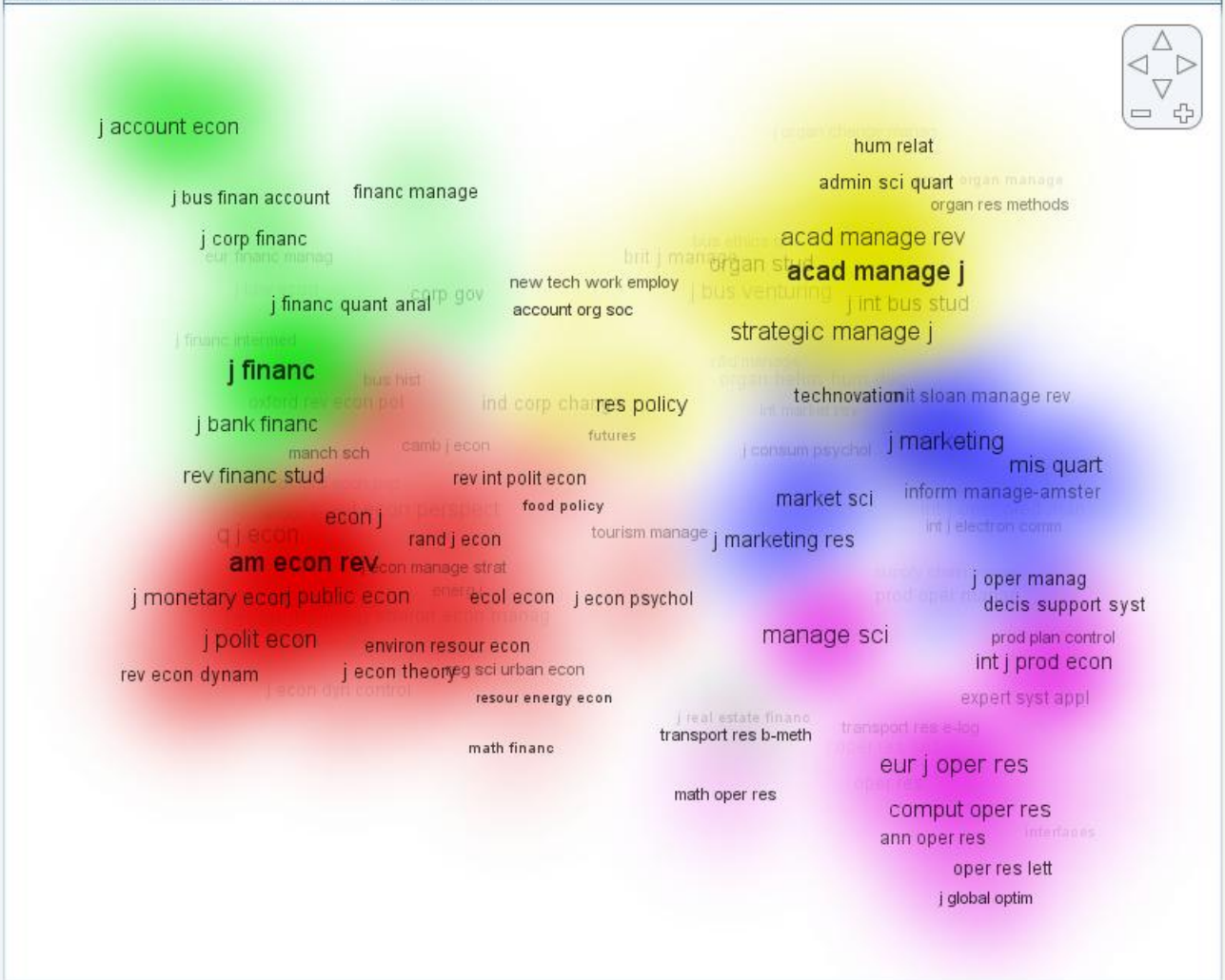
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