

scriptLattes e algumas experiências da coleta e análise de dados acadêmicos

Jesús P. Mena-Chalco
jesus.mena@ufabc.edu.br

Centro de Matemática, Computação e Cognição
Universidade Federal do ABC

I Workshop NAPSol

17 de Outubro de 2014

Curriculo do Sistema de C. >

buscatextual.cnpq.br/buscatextual/visualizacv.do?sessionid=442154AE45CB

Dados Gerais Projetos Áreas Produção em C.T & A Bancas Eventos Orientações Cláusulas

Produção em C.T & A

Produtora Bibliográfica

Citações

Wos de Science

Total de trabalhos 34 Total de citações 489
oscar@...; shape analr analr Date 21/06/2010

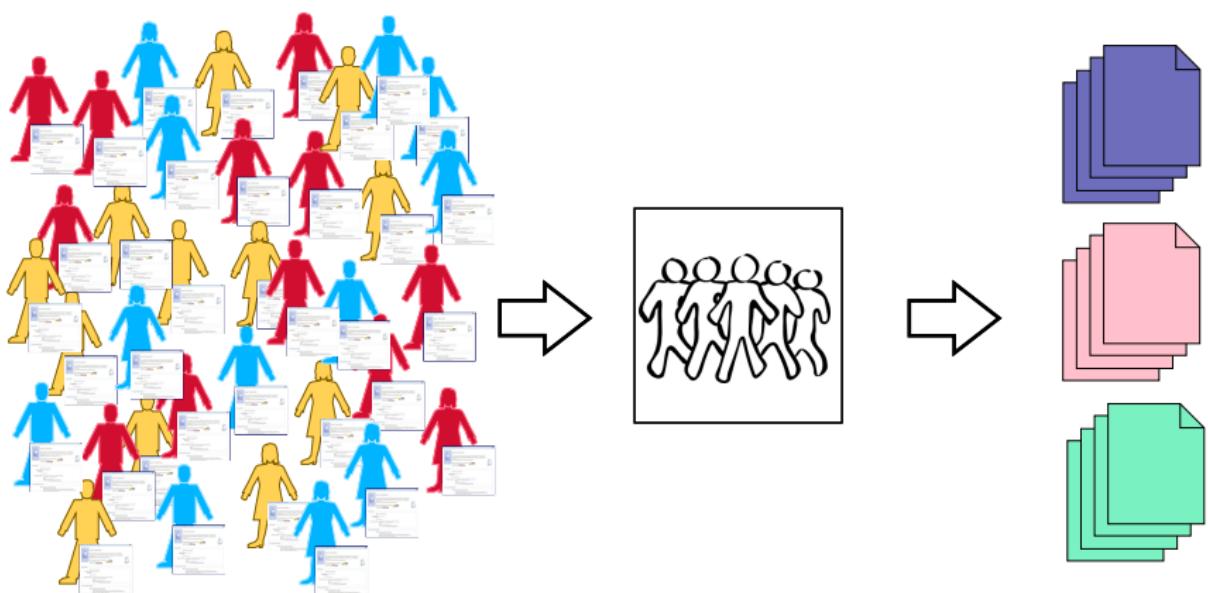
Outros

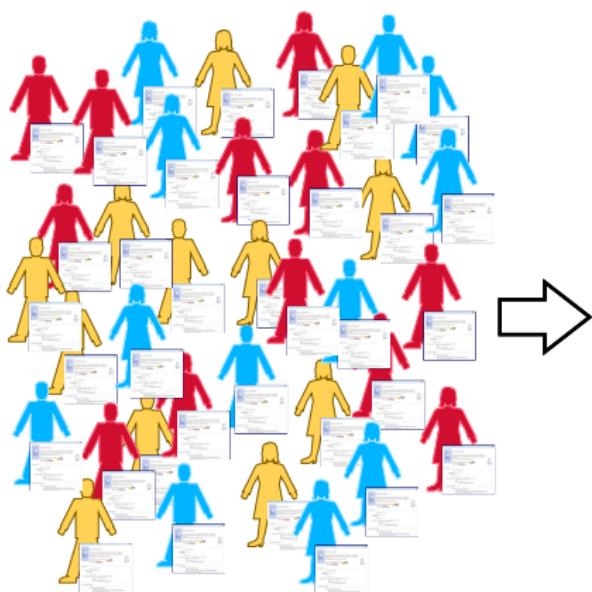
Total de trabalhos 98 Total de citações 961
"Roberto Marcondes Cesar" OR "Cesar Júnior" OR "Cesar Jr." shape analysis and classification; buscas no http://scholar.google.com.br; usando Harzing Publish or Perish - http://www.harzing.com/pdf.htm; Data 02/06/2008

Artigos completos publicados em periódicos

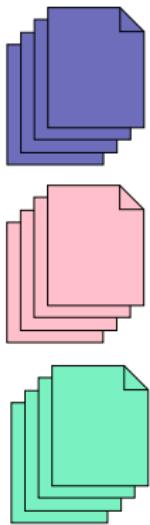
1. [\[PDF\] Lopes, Fabrício M.; Cesar, Roberto M.; Costa, Luciano Da P. - Gene Expression Complex Networks: Synthesis, Inference, and Analysis. Journal of Computational Biology](#), v. 18, p. 1553-1567, 2011.
2. [\[PDF\] Nogueira, Alessandra; Paula, Alaino; Cesar, Cesar Jr.; Roberto M. - Structure matching of 2D electrophoresis gels using defected graphs. Pattern Recognition Letters](#), v. 32, p. 231-231, 2011.
3. [\[PDF\] Lopes, Fabrício; de Oliveira, Eustálio A.; Cesar, Roberto M. - Influence of gene regulatory networks from time series by Tsallis entropy. BMC Systems Biology](#), v. 5, p. 45, 2011.
4. [\[PDF\] LEONARD, J.; CESAR JR., R.; COSTA, F. - Automatic contour extraction from 2D neuron images. Journal of Neuroscience Methods](#), v. 177, p. 497-509, 2008.
5. [\[PDF\] LOZIER, M. A.; MARTINS JR, D. C.; CUADRADO-VARGAS, A. J.; CESAR JUNIOR, R. M.; NOVATO, L. D. - Generating segmented nuclei from textured color images. Journal of Visual Communication and Image Representation](#), v. 20, p. 190-205, 2009.
6. [\[PDF\] Mora-Chalco, Jesus P.; Maestre, Iván; Valti, Luz; Cesar, Roberto M. - 3D face computational photography using PCA species. Visual Computer](#), v. 25, p. 199-209, 2009.
7. [\[PDF\] Mora-Chalco, Jesus P.; Cesar Junior, Roberto Marcondes; SQUELETIC: an open-source knowledge extraction system from the Latin pages. Journal of the Brazilian Computer Society \(SBCS\), v. 15, p. 3, 2009.](#)
8. [\[PDF\] Zaria, Yara; Mora-Chalco, Jesus P.; Cesar Jr., R.M. - A novel polarized human face recognition approach model. Brazilian Journal of Electrical and Biological Engineering \(REBIE\)](#), v. 40, p. 2, 2006.
9. [\[PDF\] CESAR JUNIOR, R. M.; CHALCO, J. M.; CARRIER, H.; ZANIA, Y. - Identification of protein coding regions using the modified Gabor-wavelet transform. IEEE/ACM Transactions on Computational Biology and Bioinformatics](#), v. 5, p. 198-207, 2008.
10. [\[PDF\] Lopes, Fabrício M.; David, C.; Cesar, Roberto M. - Feature selection environment for genomic applications. BMC Bioinformatics](#), v. 9, p. 454, 2008.
11. [\[PDF\] DARYMPLA, J.; CESAR JUNIOR, R. M.; HUMES JR., C.; MARTINS JR, D. C.; PATRAO, D. F. C.; SILVA, P. J. S.; BRITTO, L. A. - A feature selection approach for identification of signature genes from SAGE data. BMC Bioinformatics](#), v. 8, p. 1, 2007.
12. [\[PDF\] Jafriah, Herbert; Cox, Michael J.; Loprinzi, Jorge Z. C.; Soares, João V. B.; Cesar, Roberto M.; Luckie, A. - Automated segmentation of retinal blood vessels and identification of proliferative diabetic retinopathy. Journal of the Optical Society of America, Optics Imaging Science and Vision](#), v. 24, p. 1448, 2007.
13. [\[PDF\] ZANIA, Yara; Cesar, Roberto M. - Face recognition based on polar frequency features. ACM Transactions on Applied Perception](#), v. 3, n. 3, p. 62-82, 2006.

Currículo Lattes: Padrão Nacional





scriptLattes



Algumas perguntas interessantes sobre o grupo

- 1** Quantas publicações foram **elaboradas**?
- 2** Qual é o **perfil** (proporção de publicação) do grupo?
- 3** Qual é a **regularidade** de publicação ao longo dos anos?
- 4** Quantas **teses/dissertações** foram orientadas e defendidas?
- 5** Como é a **colaboração** entre os membros do grupo?
- 6** Quem é o membro mais **colaborativo**?
- 7** Qual é a **distribuição geográfica** dos membros do grupo?



- 1** Processo de compilação de dados acadêmicos: scriptLattes
 - Módulos do sistema
 - Relatórios gerados

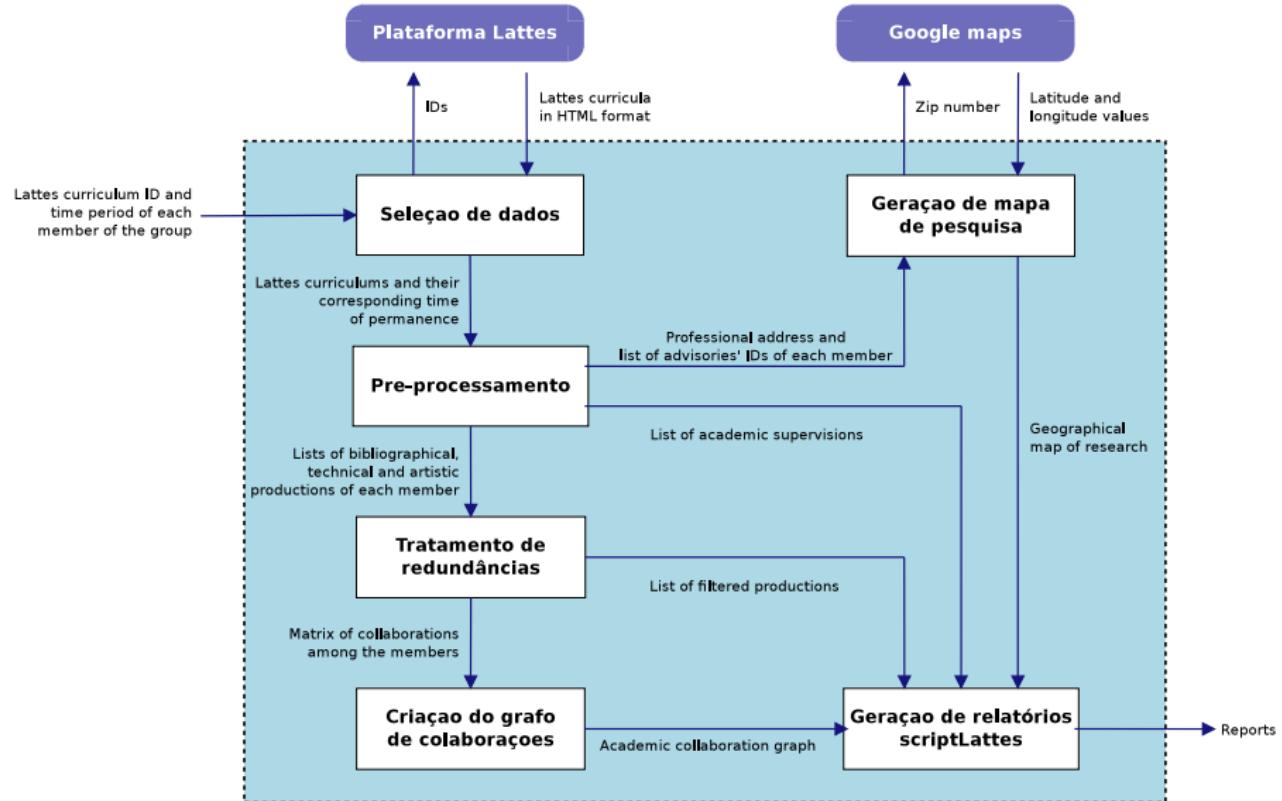
- 2** Experiências de análises de dados acadêmicos
 - Genealogia académica
 - Distribuição geográfica de pesquisadores
 - Caracterização de grupos através do perfil de publicação
 - Caracterização de redes de co-autoria
 - Outras aplicações

Agenda



- 1** Processo de compilação de dados acadêmicos: scriptLattes
 - Módulos do sistema
 - Relatórios gerados
- 2** Experiências de análises de dados acadêmicos

Módulos do sistema



Tratamento de redundâncias



CV Autor 1:

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. . *Aperture Filters: Theory, Application, and Multiresolution Analysis*. In: Stephen Marshall; Giovanni L. Sicuranza. (Org.). Advances on Nonlinear Signal and Image Processing. : EURASIP Book Series on Signal Processing and Communications, 2007, v. , p. -.

CV Autor 2:

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R . *Aperture filters: theory, application and multi-resolution analysis..* In: Stephen Marshall; Giovanni L. Sicuranza.. (Org.). ADVANCES ON NONLINEAR SIGNAL AND IMAGE PROCESSING.. 1 ed. : Hindawi Publishing Corporation, 2005, v. 6, p. 15-45.

Tratamento de redundâncias



CV Autor 1:

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. . *Aperture Filters: Theory, Application, and Multiresolution Analysis.* In: Stephen Marshall; Giovanni L. Sicuranza. (Org.). Advances on Nonlinear Signal and Image Processing. : EURASIP Book Series on Signal Processing and Communications, 2007, v. , p. -.

CV Autor 2:

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R . *Aperture filters: theory, application and multi-resolution analysis..* In: Stephen Marshall; Giovanni L. Sicuranza.. (Org.). ADVANCES ON NONLINEAR SIGNAL AND IMAGE PROCESSING.. 1 ed. : Hindawi Publishing Corporation, 2005, v. 6, p. 15-45.

Comparação entre autores

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. .

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R

Tratamento de redundâncias



CV Autor 1:

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. . [Aperture Filters: Theory, Application, and Multiresolution Analysis](#). In: Stephen Marshall; Giovanni L. Sicuranza. (Org.). Advances on Nonlinear Signal and Image Processing. : EURASIP Book Series on Signal Processing and Communications, 2007, v. , p. -.

CV Autor 2:

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R . [Aperture filters: theory, application and multi-resolution analysis..](#) In: Stephen Marshall; Giovanni L. Sicuranza.. (Org.). ADVANCES ON NONLINEAR SIGNAL AND IMAGE PROCESSING.. 1 ed. : Hindawi Publishing Corporation, 2005, v. 6, p. 15-45.

Comparação entre autores

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. .

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R

Comparação entre títulos

- aperture **filters**: theory, application, and **multiresolution** analysis

- aperture **filtres**: theory, application and **multi-resolution** analysis

Tratamento de redundâncias



CV Autor 1:

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. . *Aperture Filters: Theory, Application, and Multiresolution Analysis*. In: Stephen Marshall; Giovanni L. Sicuranza. (Org.). Advances on Nonlinear Signal and Image Processing. : EURASIP Book Series on Signal Processing and Communications, 2007. v. , p. -.



CV Autor 2:

HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R . *Aperture filters: theory, application and multi-resolution analysis..* In: Stephen Marshall; Giovanni L. Sicuranza.. (Org.). ADVANCES ON NONLINEAR SIGNAL AND IMAGE PROCESSING.. 1 ed. : Hindawi Publishing Corporation, 2005 v. 6, p. 15-45.



Comparação entre autores

HIRATA JR., R. ; BRUN, M. ; BARRERA, J. ; DOUGHERTY, E. R. .

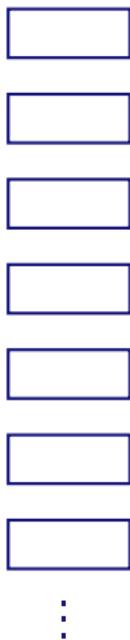
HIRATA JR, Roberto ; BARRERA, Junior ; BRUN, Marcel ; DOUGHERTY, E R

Comparação entre títulos

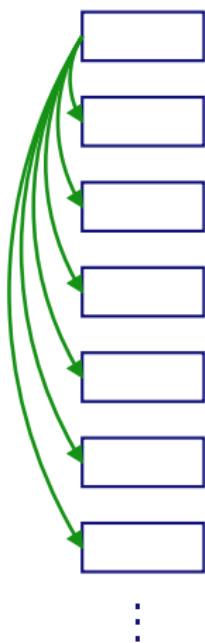
- aperture **filters**: theory, application, and **multiresolution** analysis

- aperture **filtres**: theory, application and **multi-resolution** analysis

Tratamento de redundâncias



Tratamento de redundâncias



Tratamento de redundâncias



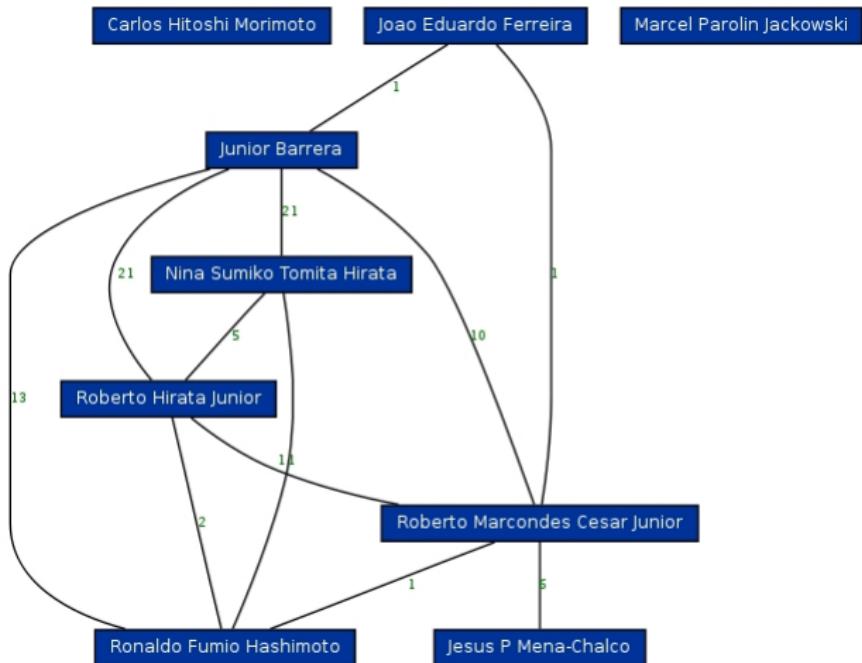
	A1	A2	A3	A4	A5	A6
A1						
A2						
A3						
A4						
A5						
A6						

Tratamento de redundâncias



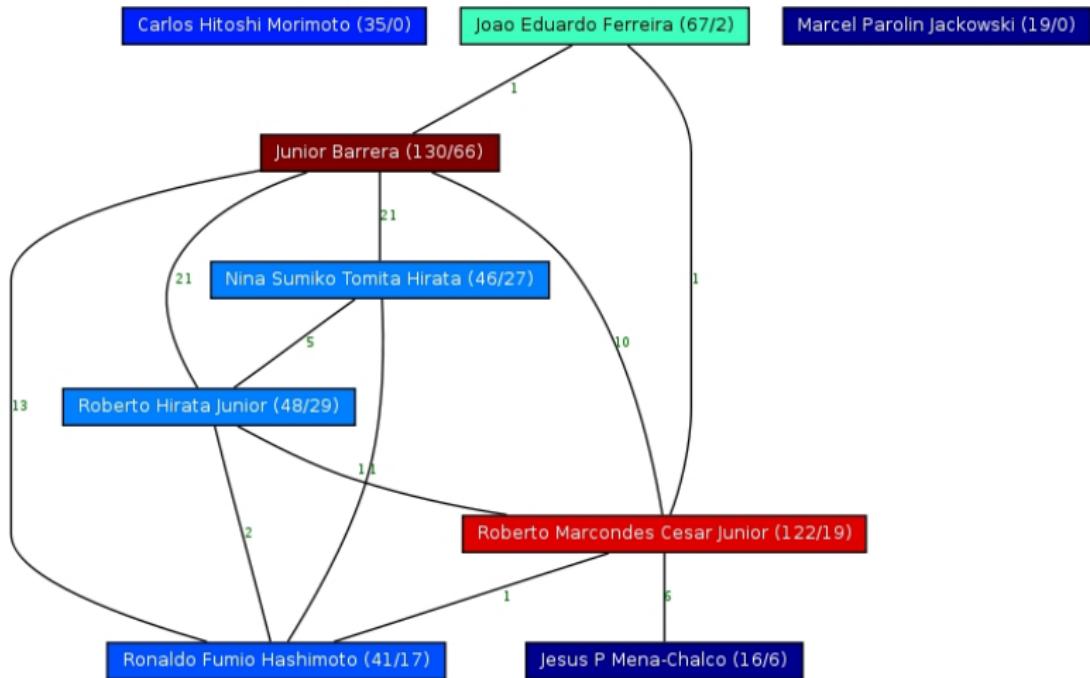
	A1	A2	A3	A4	A5	A6	...
A1	Green	Red	Red	Red	Red	Red	
A2	White	Green	Red	Red	Red	Red	
A3	White	White	Green	Red	Red	Red	
A4	White	White	White	Green	Red	Red	
A5	White	White	White	White	Green	Red	
A6	White	White	White	White	White	Green	
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

Criação de grafos (redes) de colaborações





Criação de grafos (redes) de colaborações



MIN

MAX

Geração dos relatórios scriptLattes



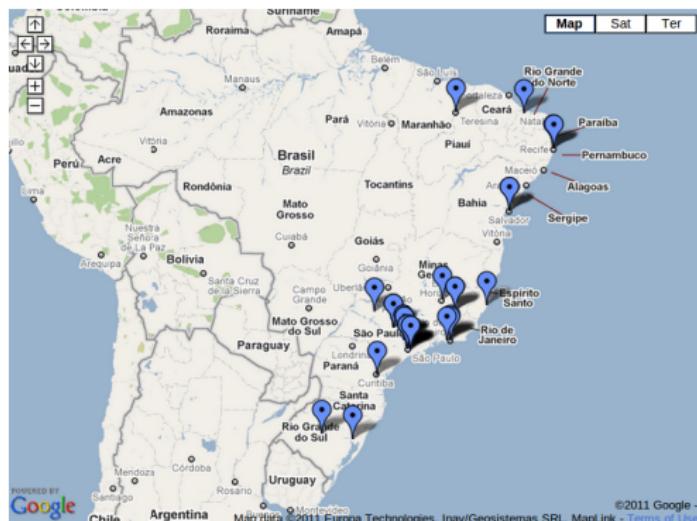
The figure displays six windows from the scriptLattes software, illustrating the generation of various reports:

- Top Left Window:** Shows a list of publications categorized by type: Produção bibliográfica, Produção técnica, and Produção artística.
- Top Middle Window:** Displays a network diagram titled "Mapa de generalização" showing connections between entities.
- Top Right Window:** Shows a network diagram with nodes and connections, likely a detailed version of the generalization map.
- Middle Left Window:** Shows a list of members (Linha de membros).
- Middle Right Window:** Shows a histogram titled "Total de interações correlacionadas" with a peak around 2011.
- Bottom Window:** Shows a detailed list of publications with titles, authors, and abstracts.

(Demonstração)



- software livre de código aberto e sob a licença GNU-GPL.
- A versão 7 foi re-programada em Python.
- Página do projeto:
<http://scriptlattes.sourceforge.net/>.

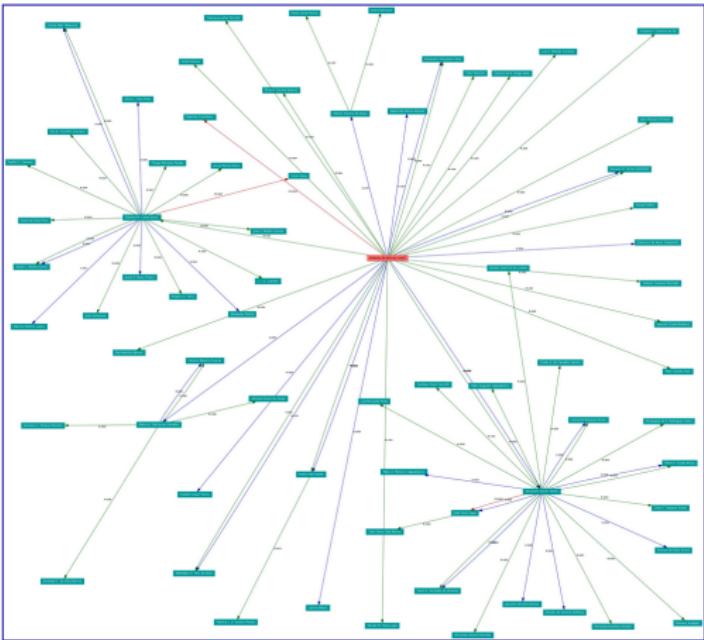
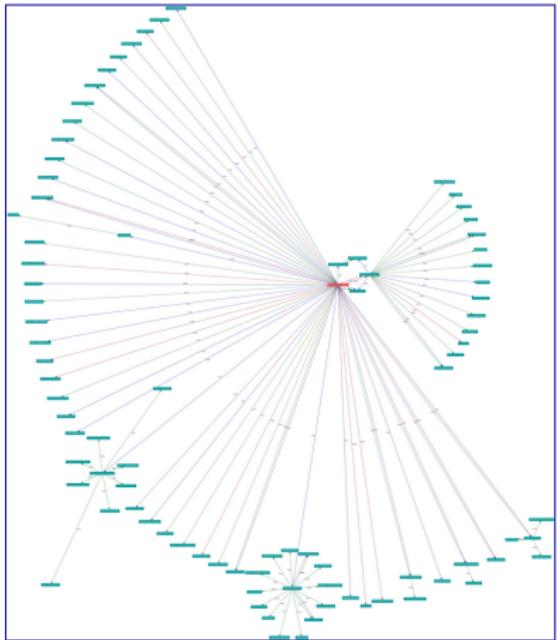




- 1** Processo de compilação de dados acadêmicos: scriptLattes

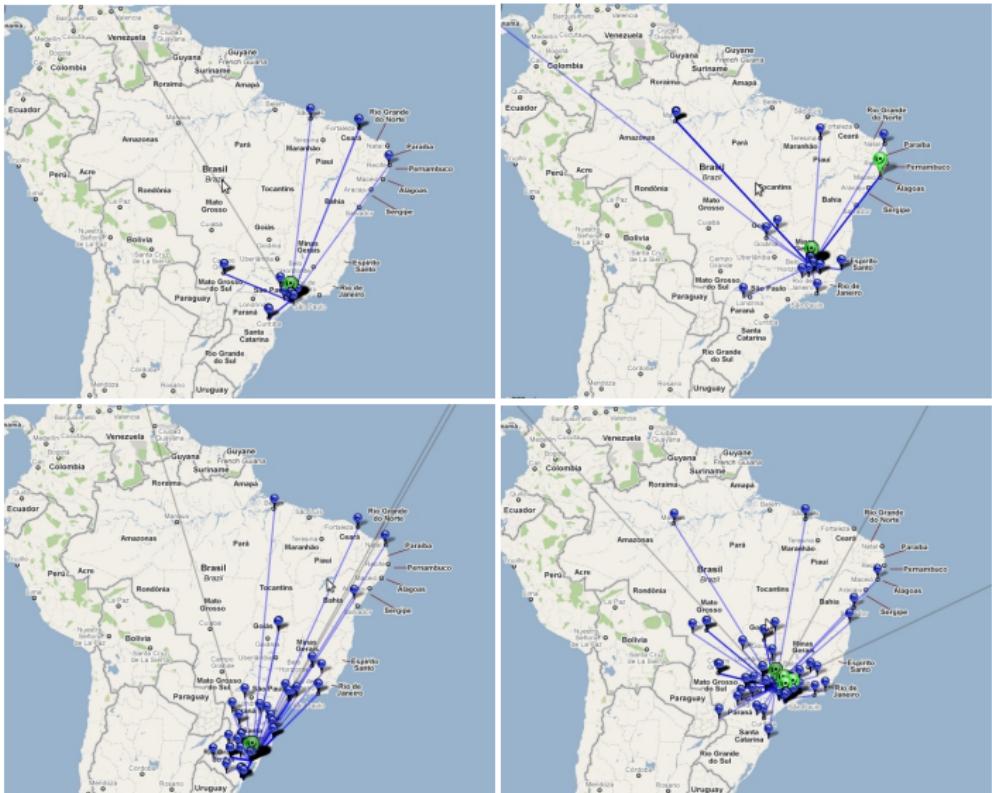
- 2** Experiências de análises de dados acadêmicos
 - Genealogia académica
 - Distribuição geográfica de pesquisadores
 - Caracterização de grupos através do perfil de publicação
 - Caracterização de redes de co-autoria
 - Outras aplicações

Genealogia académica





Distribuição geográfica de pesquisadores

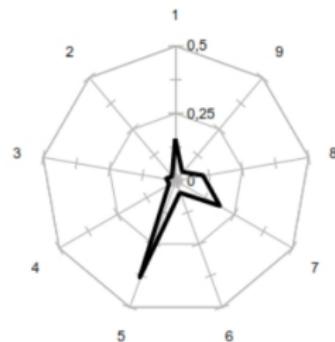


Caracterização de grupos através do perfil de publicação

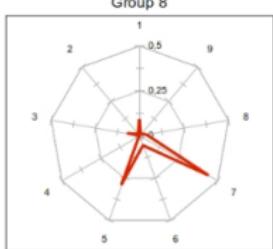
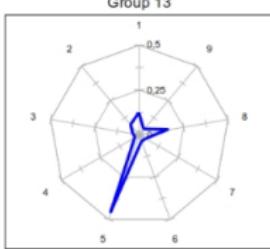
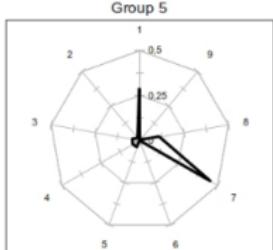
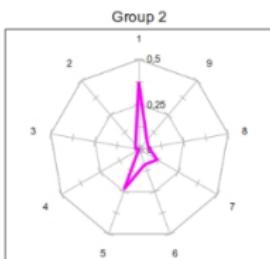
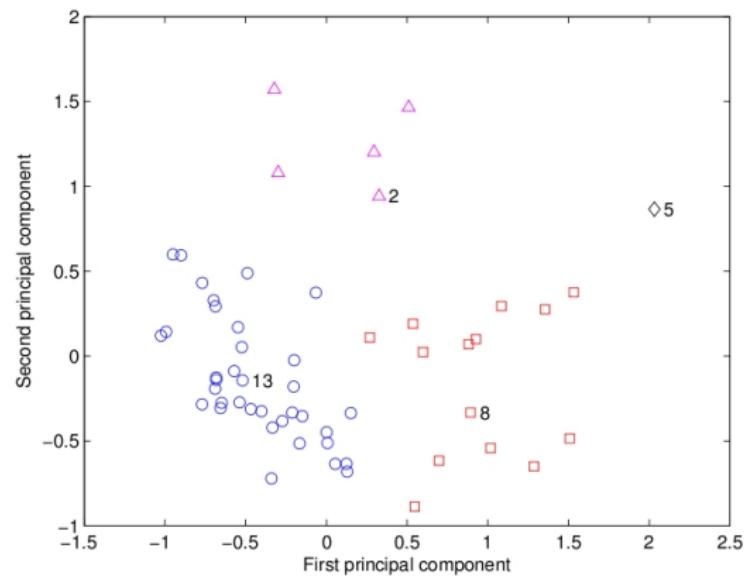


Type of bibliographical production	Total
1. Articles in scientific journals	1816
2. Book published/organized	220
3. Book chapter published	403
4. Articles in newspapers/magazines	310
5. Complete works published in proceedings of conferences	4544
6. Expanded summary published in proceedings of conferences	586
7. Summary published in proceedings of conferences	2264
8. Presentations of work	1233
9. Other Kinds of bibliographical production	472

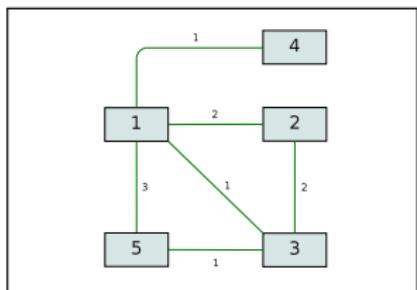
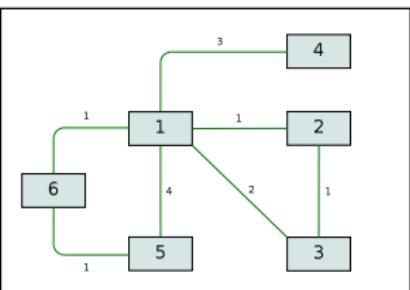
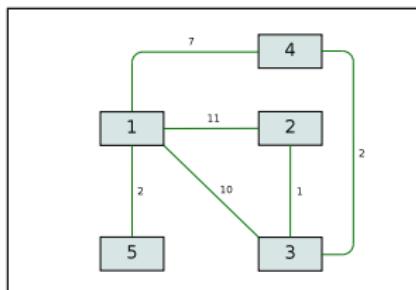
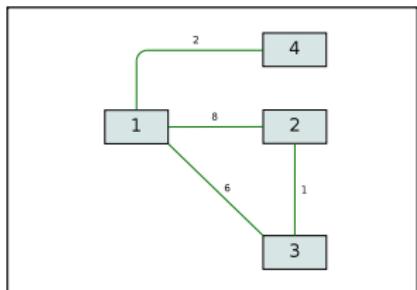
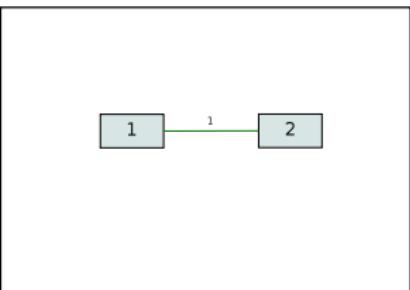
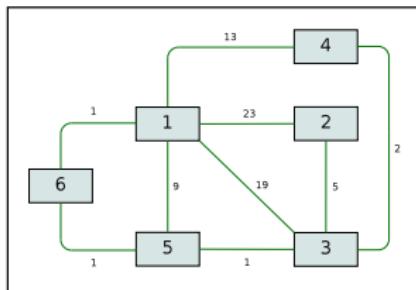
(a)



Caracterização de grupos através do perfil de publicação



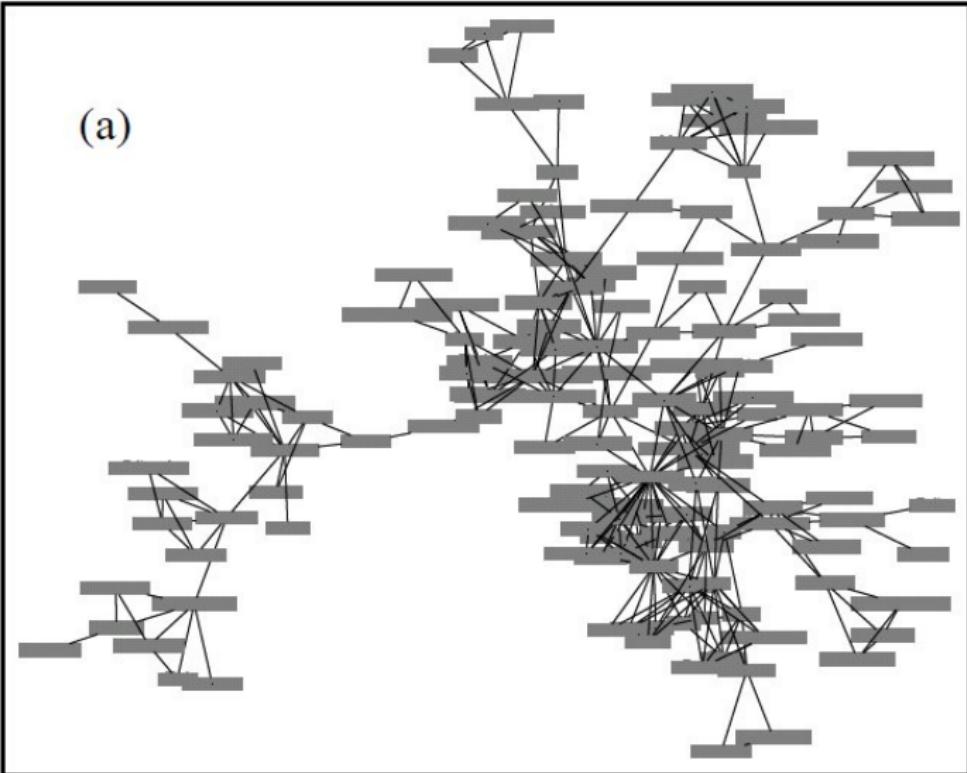
Caracterização de redes de co-autoria



Caracterização de redes de co-autoria



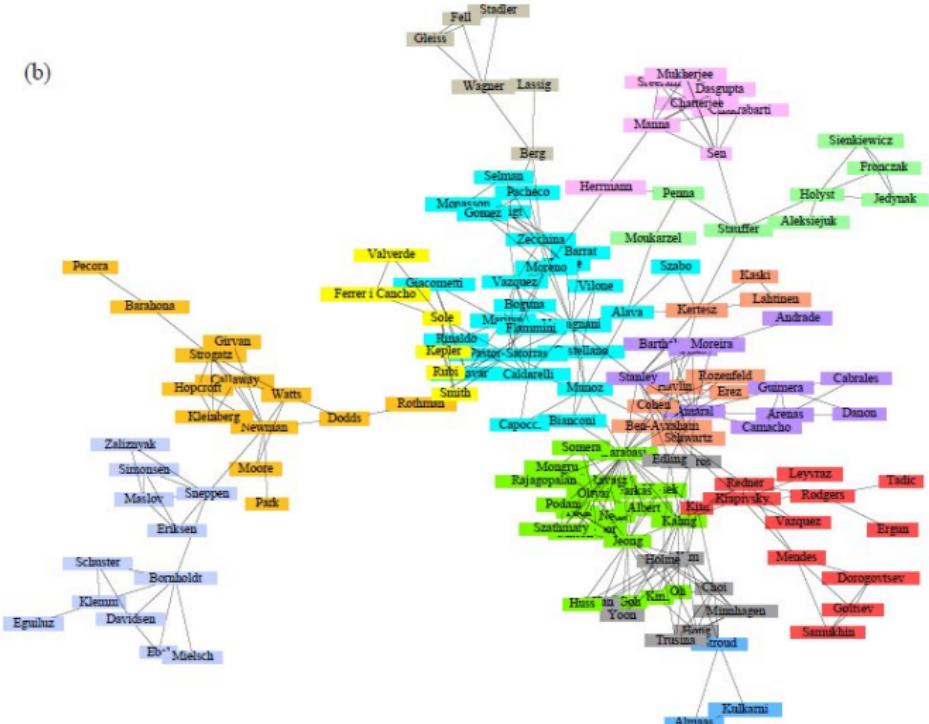
(a)



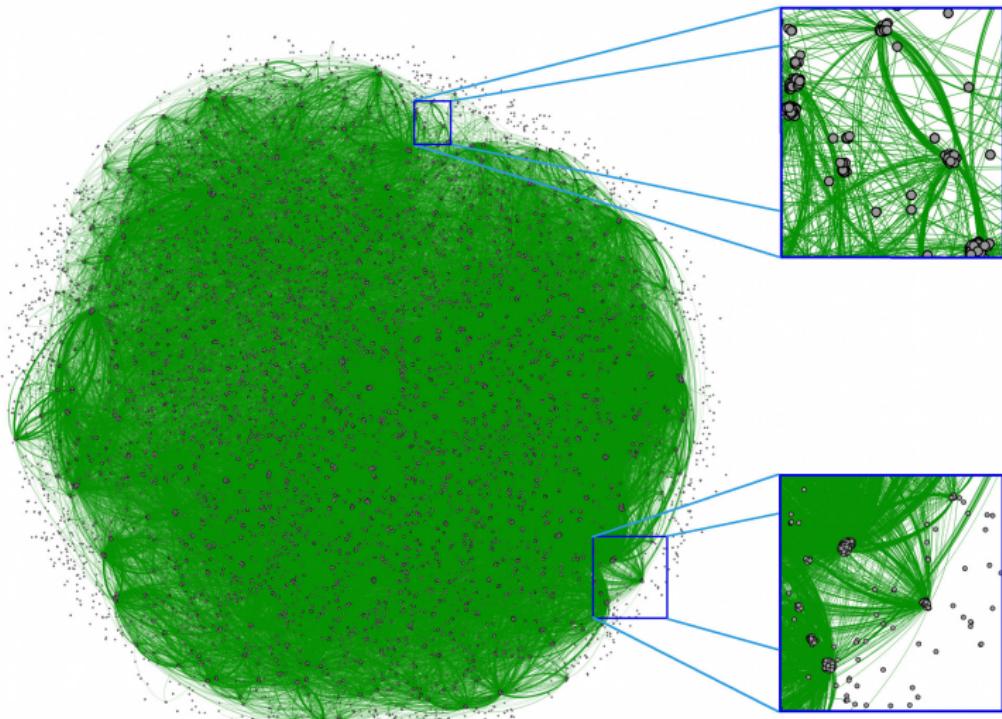
Caracterização de redes de co-autoria



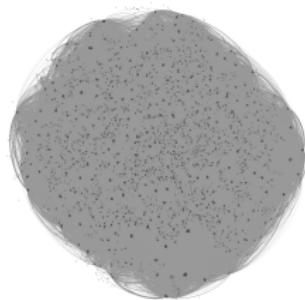
(b)



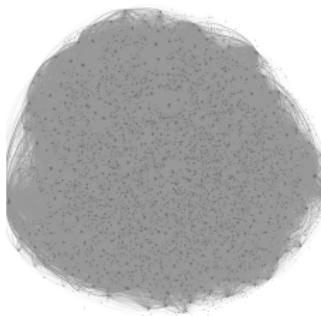
Redes de co-autoria: Área de Ciências Exatas



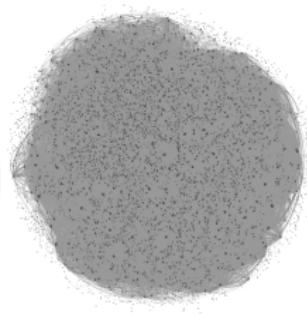
Redes de co-autoria: Todas as Grandes Áreas



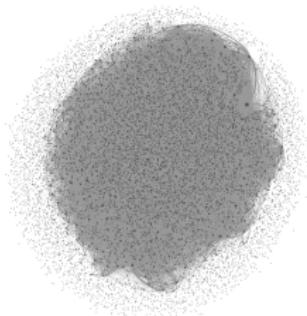
Agricultural Sciences



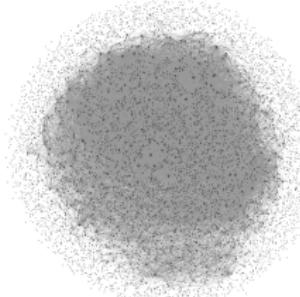
Biological Sciences



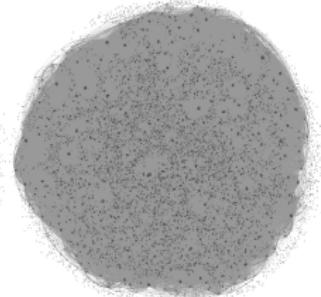
Exact and Earth Sciences



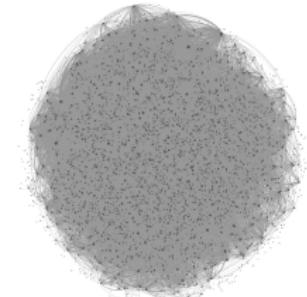
Humanities



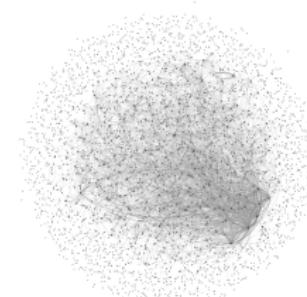
Applied Social Sciences



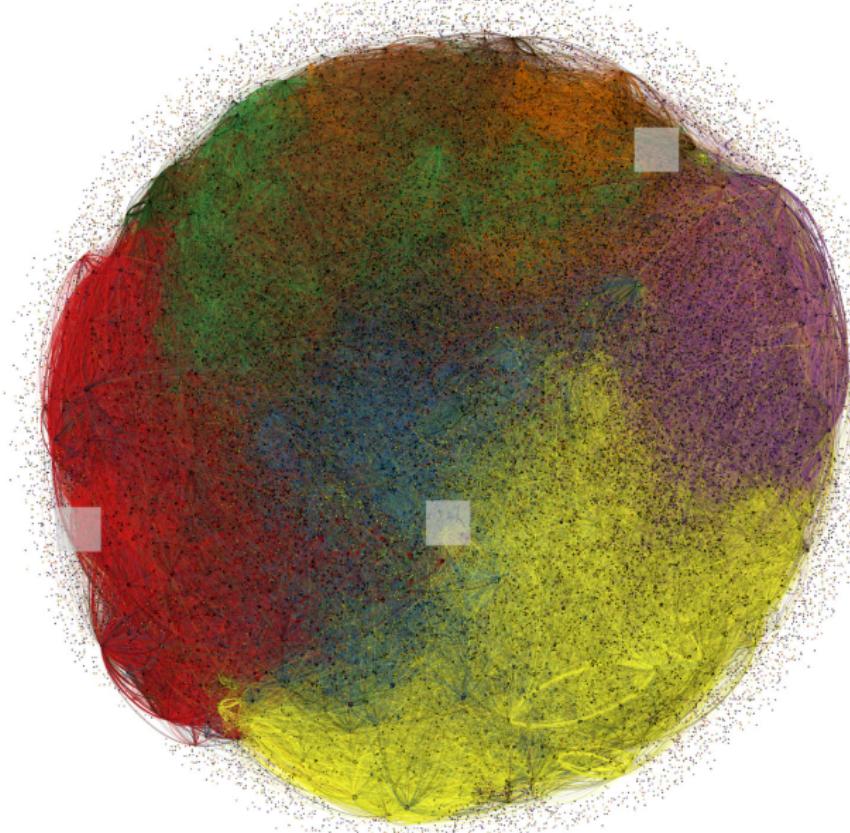
Health Sciences



Engineering



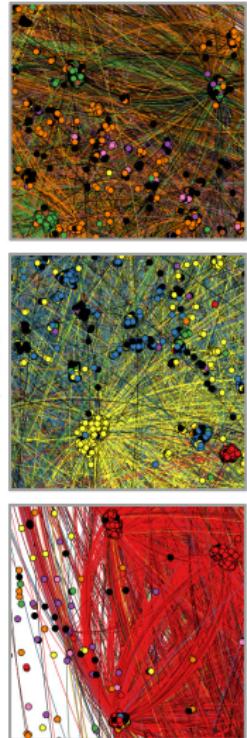
Linguistics, Letters and Arts



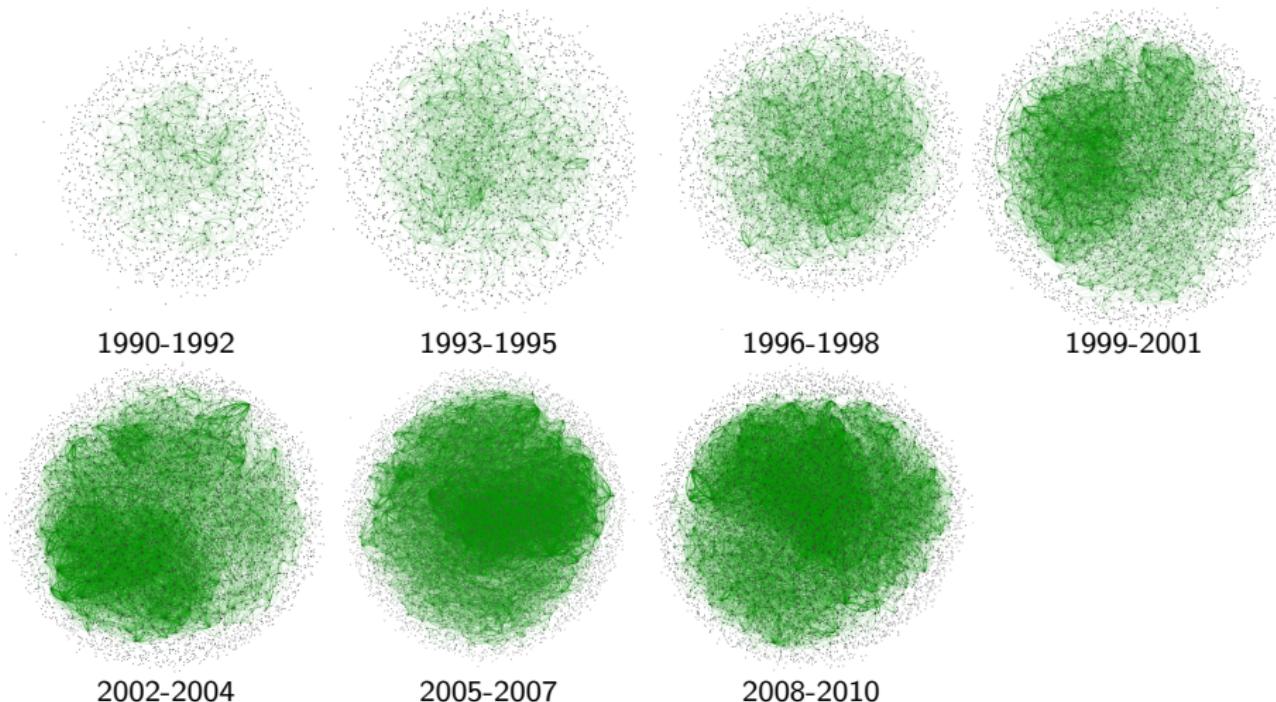
● Agricultural Sciences
● Humanities
● Engineering

● Biological Sciences
● Applied Social Sciences
● Linguistics, Letters and Arts

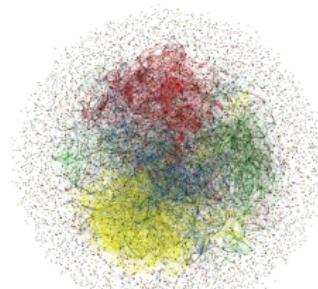
● Exact and Earth Sciences
● Health Sciences
● More than one major area



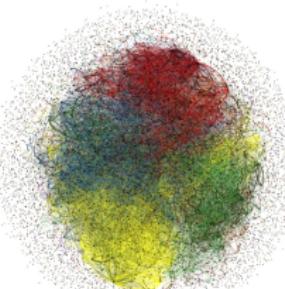
Dinâmica nas coautorias: Área de Ciências Exatas



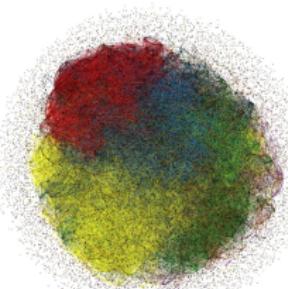
Dinâmica nas coautorias: Todas as Grandes Áreas



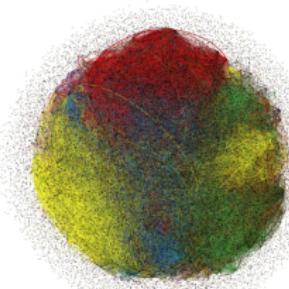
1990-1992



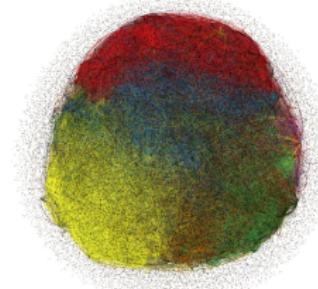
1993-1995



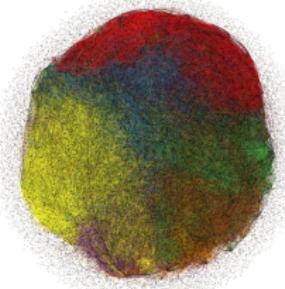
1996-1998



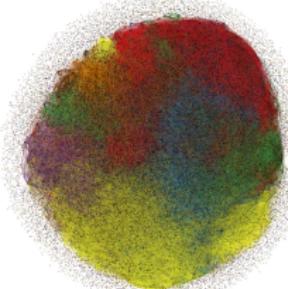
1999-2001



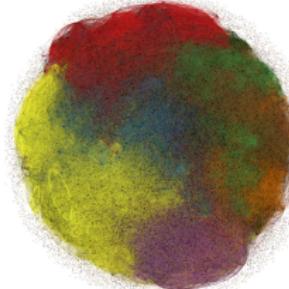
2002-2004



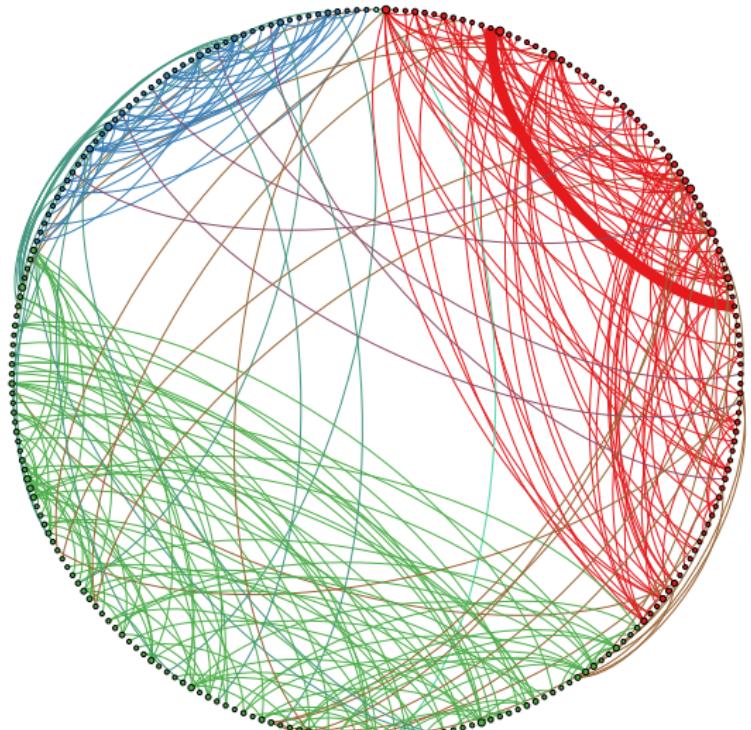
2005-2007

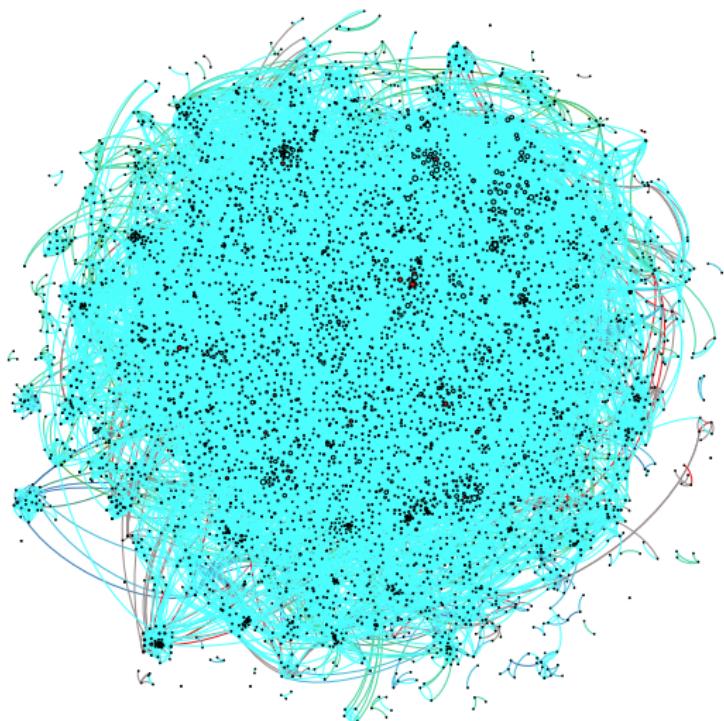


2008-2010



1990-2010

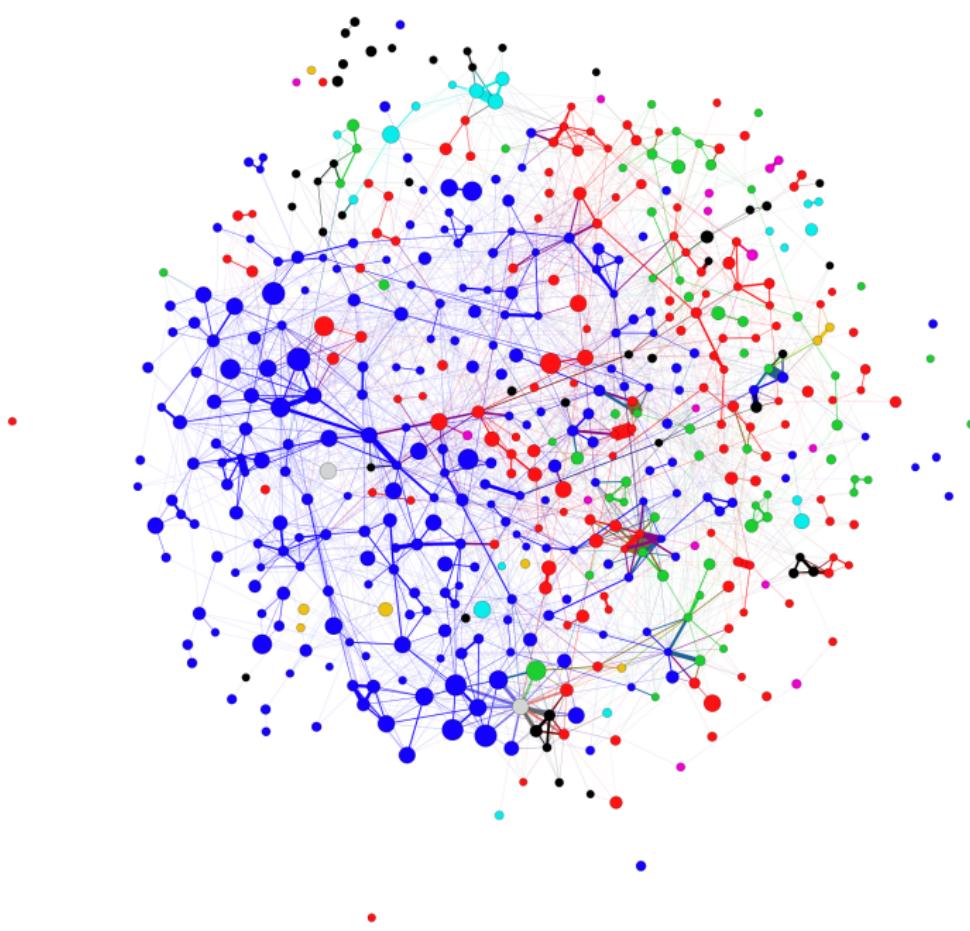


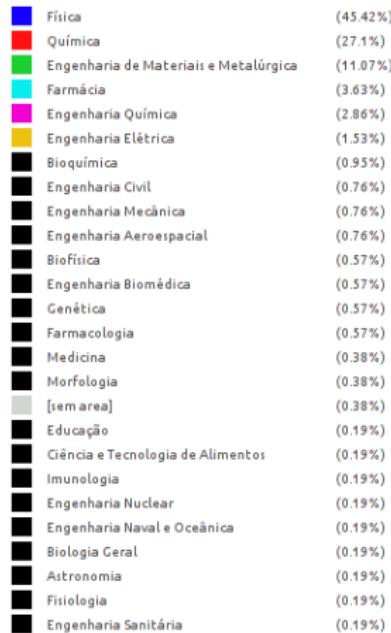


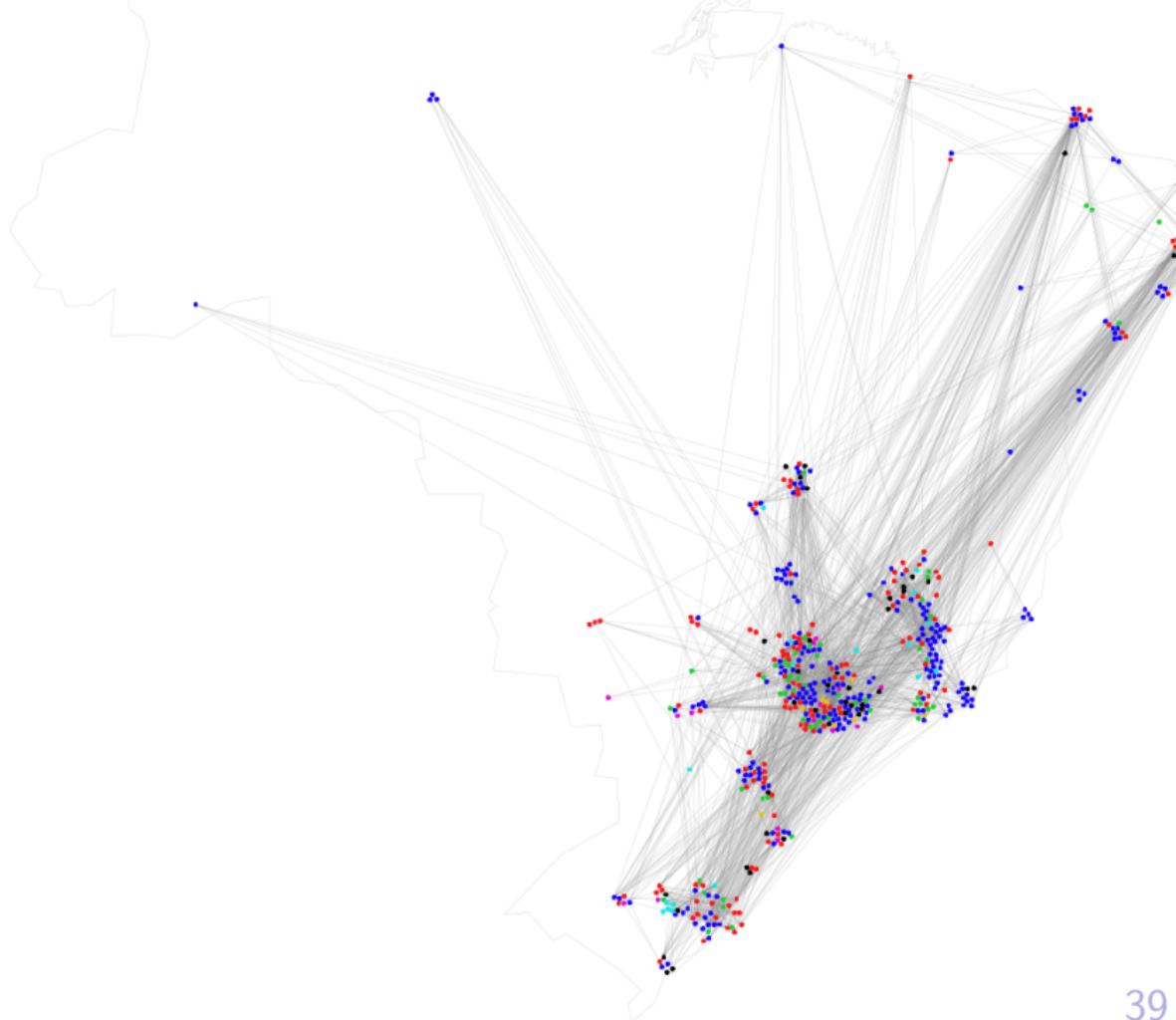


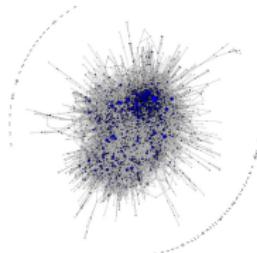
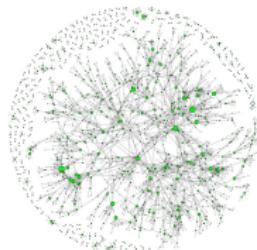
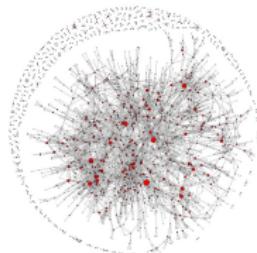


- A definição de bancas de concursos.
- A identificação de “bons” candidatos a concursos.
- Identificação de especialistas (*expert finder*).









scriptLattes e algumas experiências da coleta e análise de dados acadêmicos

Jesús P. Mena-Chalco
jesus.mena@ufabc.edu.br

Centro de Matemática, Computação e Cognição
Universidade Federal do ABC

I Workshop NAPSol

17 de Outubro de 2014