



Instituto de
Matemáticas



Visualization of Information with `eea.facetednavigation` and Custom Views

Bautista García Cano Gildardo
Ramírez Viguera Adriana

june 18, 2014

Motivation

- Evaluate the productivity of faculty members
- Evaluate the global productivity
- Get dynamic Analysis of productivity

Requirements

Search, discover and analyze

by author

by year



by campus

by Magazine

by publication type

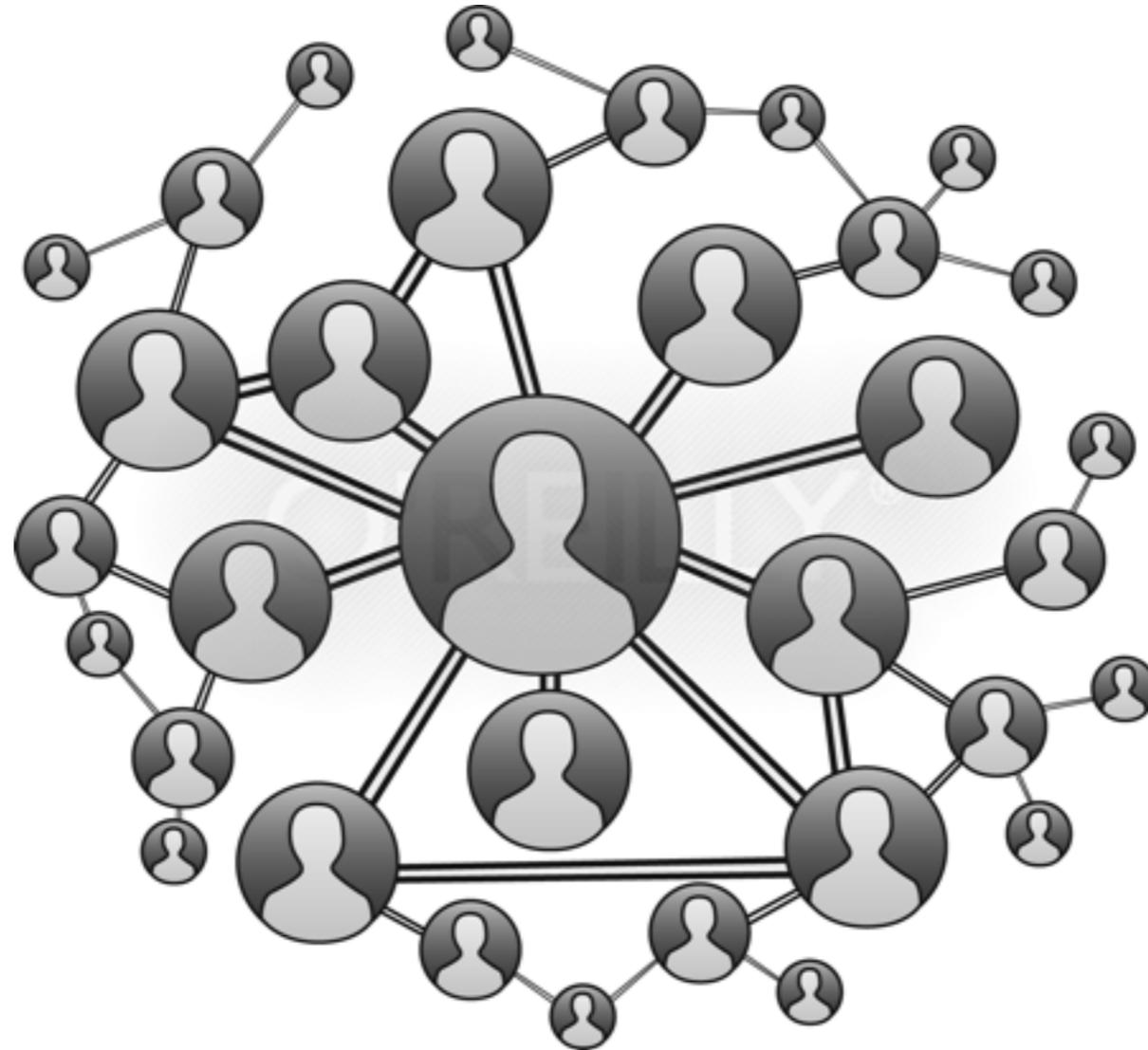
Search



- Search by author or campus
- Refine results by year, by magazine, by researcher areas, etc.
- Export results to bibtex format

**Discover
our
site**

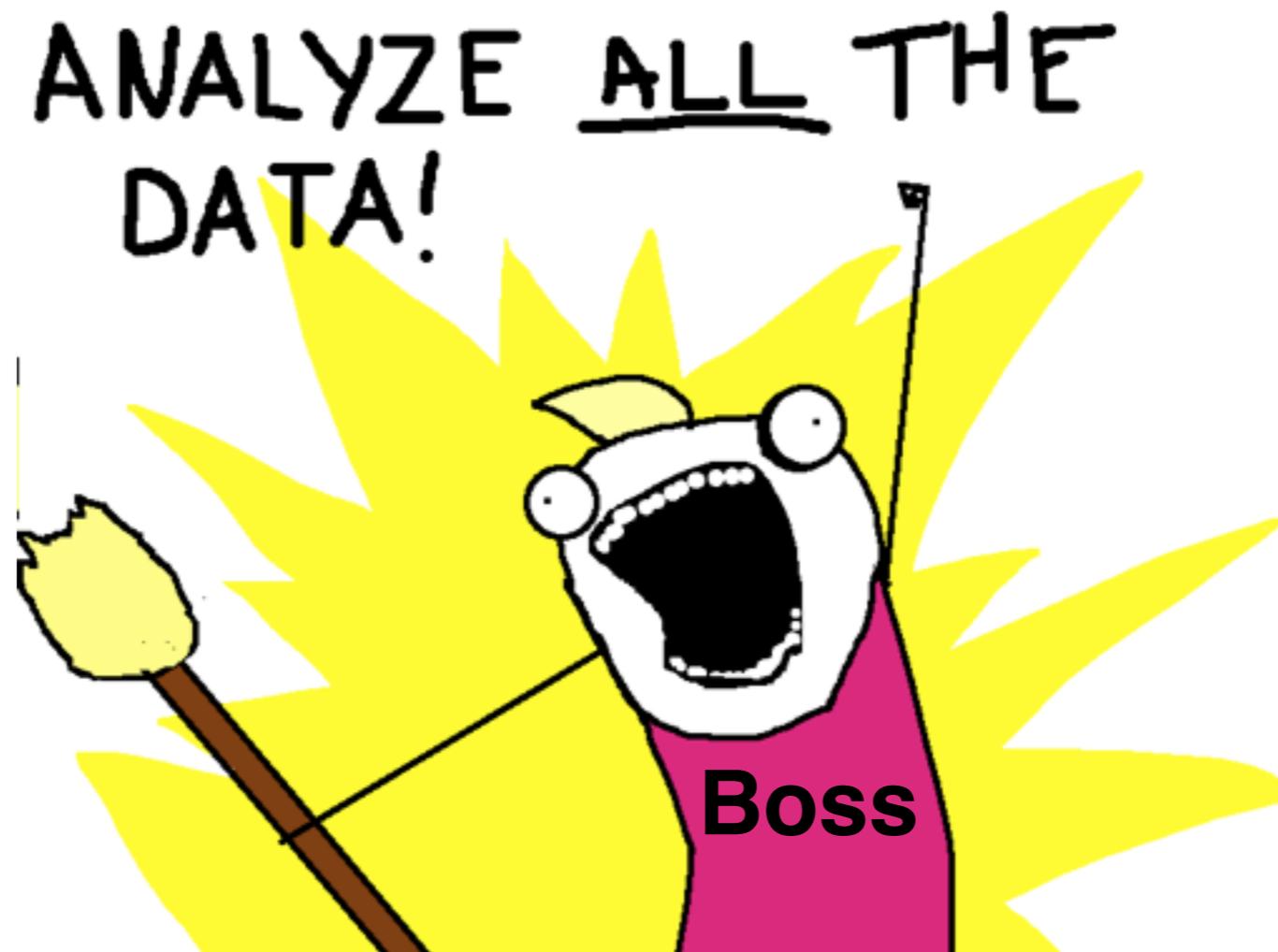
**Discover publications
that shared co-authors**



Identify collaborators

Identify the magazines that are more used

Analyze our site

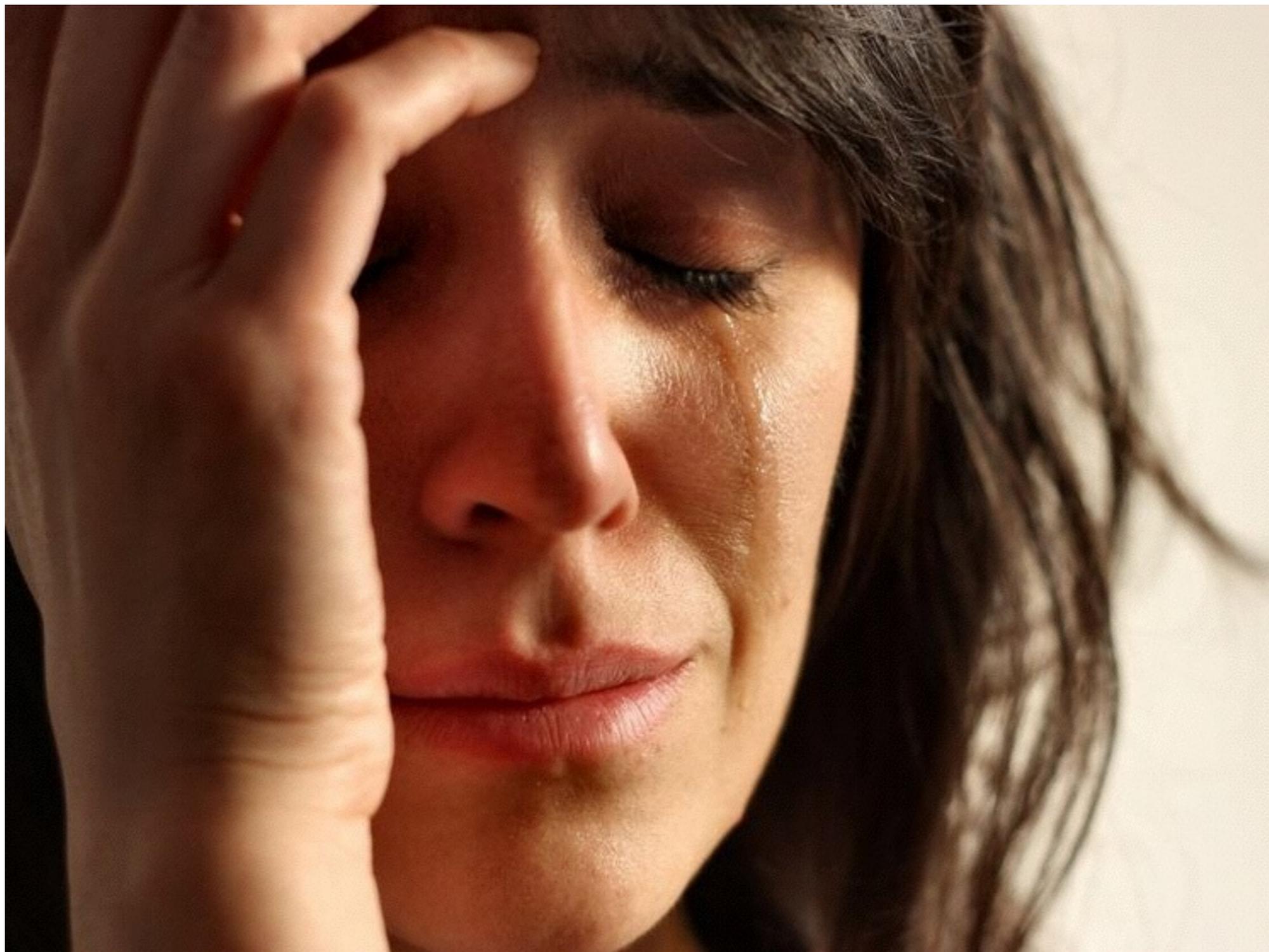


Analyze

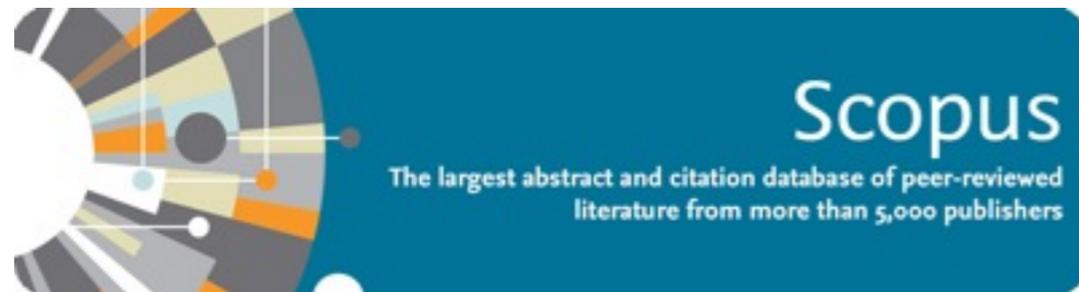


- Track citations over time for a set of authors or publications
- Obtain h-index and i-index for specific authors
- Analyze an author's publishing output
- Analyze the productivity for researcher areas

What do you do?



Tools that exist



Tools that exist



Search ✓

Discover ✓

Analyze ✓

but...

\$\$\$\$

Tools that exist



Search	✓	
Discover	✗	only by co-author
Analyze	✗	only get h-index and i-index

Tools that exist



Search



Discover



only by co-author

Analyze



Tools that exist



THOMSON REUTERS

Search ✓

Discover ✓

Analyze ✓

but...

\$\$\$\$



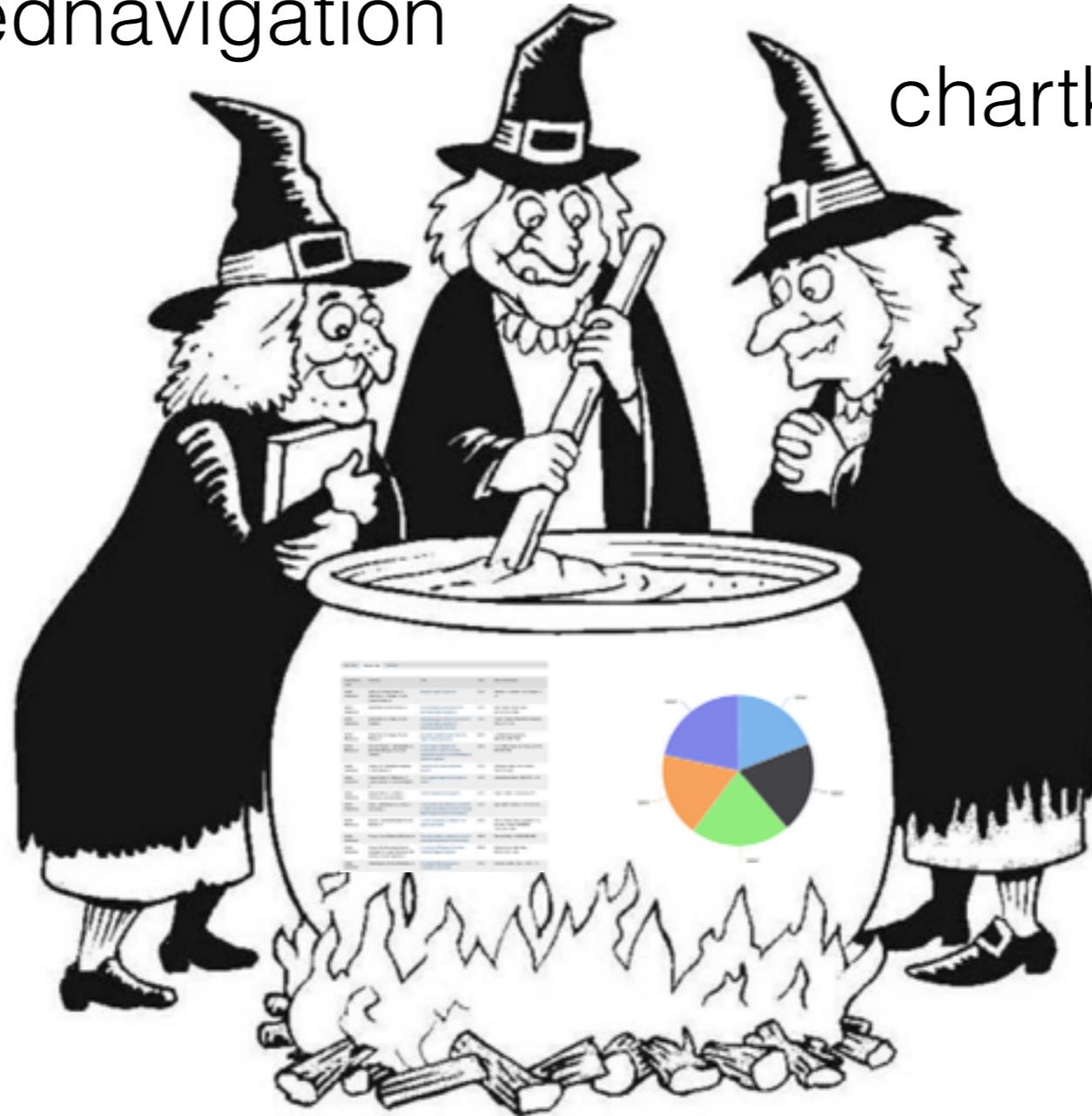


KEEP
CALM
AND
USE
PLONE

CMFBibliography

eea.facetednavigation

chartkick



CMFBibliography

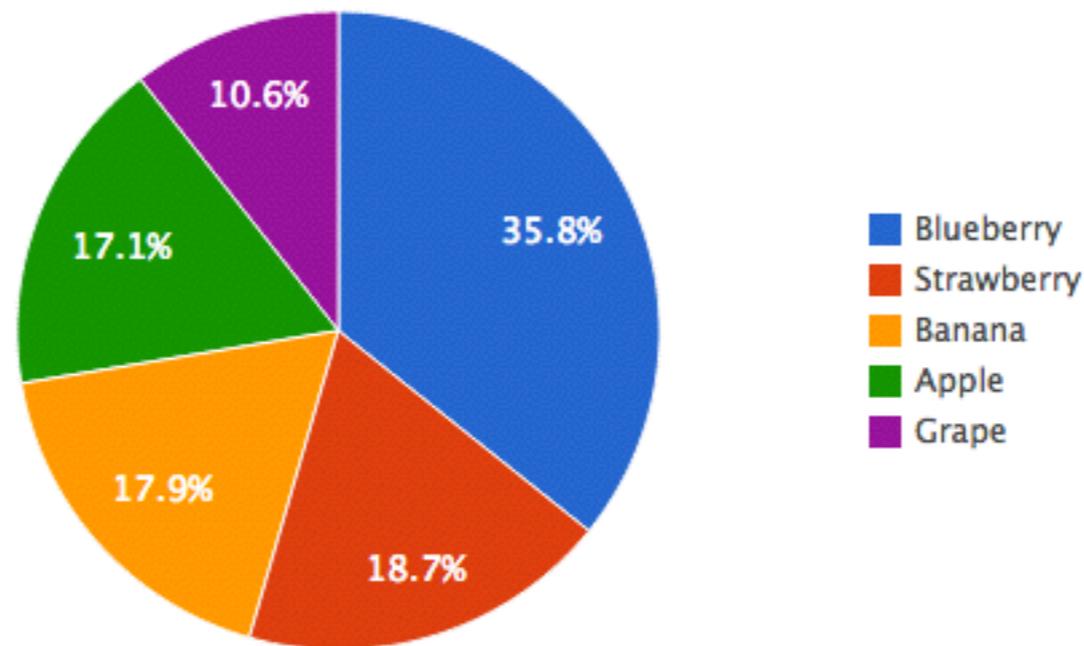
- Create and manage bibliography references
- The Schema follows bibtex format
- Support many import and export and easy to add news ones

eea.facetednavigation

- Exploratory search
- Refining results search
- It's very powerful interface to improve search within large collections of items
- It's fully customizable, site admin may decide that some criteria (facets) must have fixed values while other may be presented as filter options to the web visitor.

chartkick

- Create beautiful Javascript charts with minimal code
- It's faster because create new charts in seconds
- Works in most browsers (including IE 6)



First implementation

Retrieve information

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Tools for retrieve information

Custom script (idea taken from bibweb)

- Requests: HTTP for Humans
- BeautifulSoup

MR Author ID



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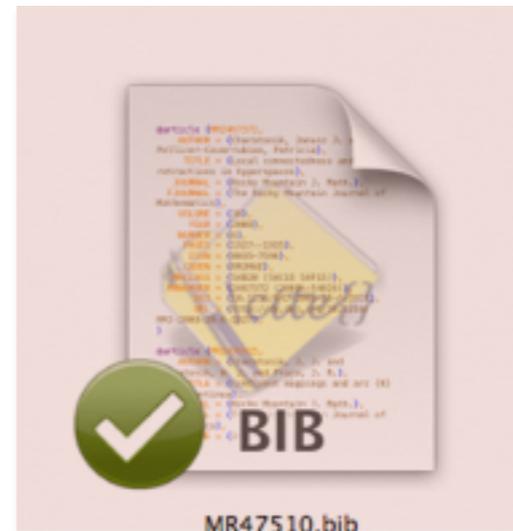
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[Boundary clustered layers near the higher critical exponents](#)
J. Differential Equations, 254(10):4168–4193.

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[A new relation between the condensation index of complex sequences and the null controllability of parabolic systems](#)
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- 2010 (88)
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- Abellanas M (0)
- Abello J (0)
- Abramson J (1)
- Abreu M (2)
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Publication type

- Article Reference (453)
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[Continua with unique symmetric product](#)

Comment. Math. Univ. Carolin., 54(3):397–406.

Araujo-Pardo, G, Balbuena, C, López-Chávez, G, and Montejano, L (2013).

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Aequationes Math., 86(3):201–216.

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Article Reference	Abreu, M, Araujo-Pardo, G, Balbuena, C, Labbate, D, and López-Chávez, G	Biregular cages of girth five	2013	Electron. J. Combin., 20(1):Paper 71, 14.
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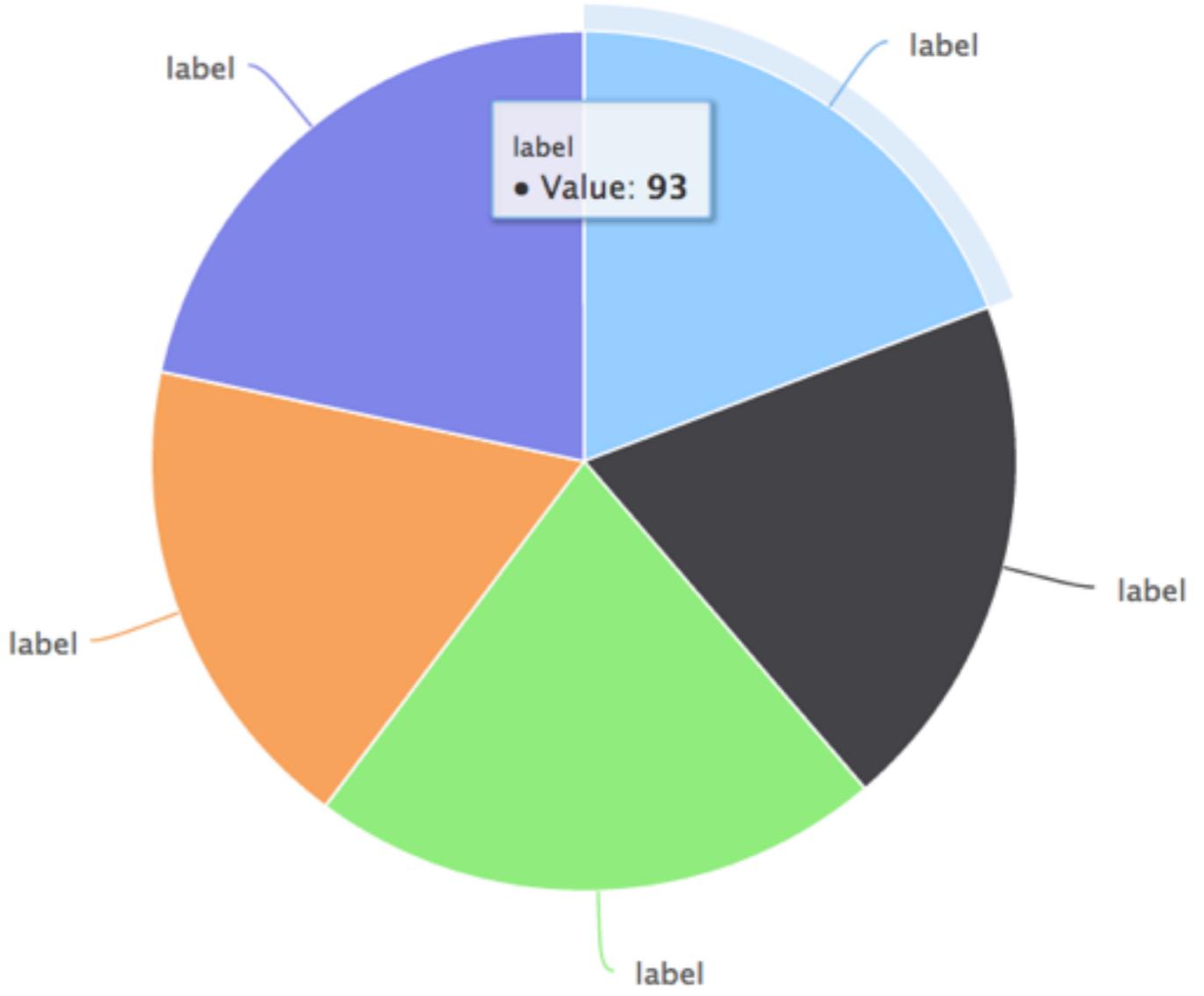
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- Juriquilla (4)

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- Araujo, Martha Gabriela (3)
- Galeana, Hortensia (5)
- Hernández, César (1)
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Fechas

- 2013 (17)

Revista

Vista en lista

[Vista tabular](#)

[Vista en pie](#)

Small bi-regular graphs of even girth

[Araujo Martha Gabriela](#) , [Exoo Geoffrey](#) , [Jajcay Robert](#)

[Discrete Mathematics](#)

2013/12/--

En este artículo probamos que para valores muy grande de m siempre existen gráficas biregulares con grados r y m , para r menor que m y cuello par congruente con 2 módulo 4 con "pocos" vértices. La construcción es general y está basada en un artículo anterior en el que Exoo y Jajcay trabajan con las jaulas biregulares de cuello impar y la existencia de ciertas gráficas hamiltonianas.

[\[editar\]](#)

Kernels by monochromatic paths and color-perfect digraphs

[Galeana Hortensia](#) , [Sánchez Rocío](#)

[Graphs and Combinatorics](#)

2013/11/--

[\[editar\]](#)

CKI-digraphs, generalized sums and partitions of digraphs

[Galeana Hortensia](#) , [Olsen Mika](#)

[Graphs and Combinatorics](#)

2013/10/--

[\[editar\]](#)

Pi-kernels in digraphs

[Galeana Hortensia](#) , [Montellano Juan José](#)

[Graphs and Combinatorics](#)

2013/10/--

[\[editar\]](#)

On the number of edges in geometric graphs without empty triangles

[Bautista-Santiago C.](#) , [Heredia M. A.](#) , [Huemer C.](#) , [Ramírez-Viguera A.](#) , [Seara C.](#) , [Urrutia Jorge](#)

[Graphs and Combinatorics](#)

2013/9/--

Artículos escritos

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Estado

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No.	Título del artículo	Tipo de publicación	Revista en la que se publica	factor	Otra revista	Número	Estado del artículo	Tipo de artículo	Título de la colección o memorias
1	Small bi-regular graphs of even girth	Revista	Discrete Mathematics	0.519			Enviado	Investigación	
2	Kernels by monochromatic paths and color-perfect digraphs	Revista	Graphs and Combinatorics	0.319			Enviado	Investigación	
3	CKI-digraphs, generalized sums and partitions of digraphs	Revista	Graphs and Combinatorics	0.319			Enviado	Investigación	
4	Pi-kernels in digraphs	Revista	Graphs and Combinatorics	0.319			Enviado	Investigación	
5	On the number of edges in geometric graphs without empty triangles	Revista	Graphs and Combinatorics	0.319		6	Publicado	Investigación	

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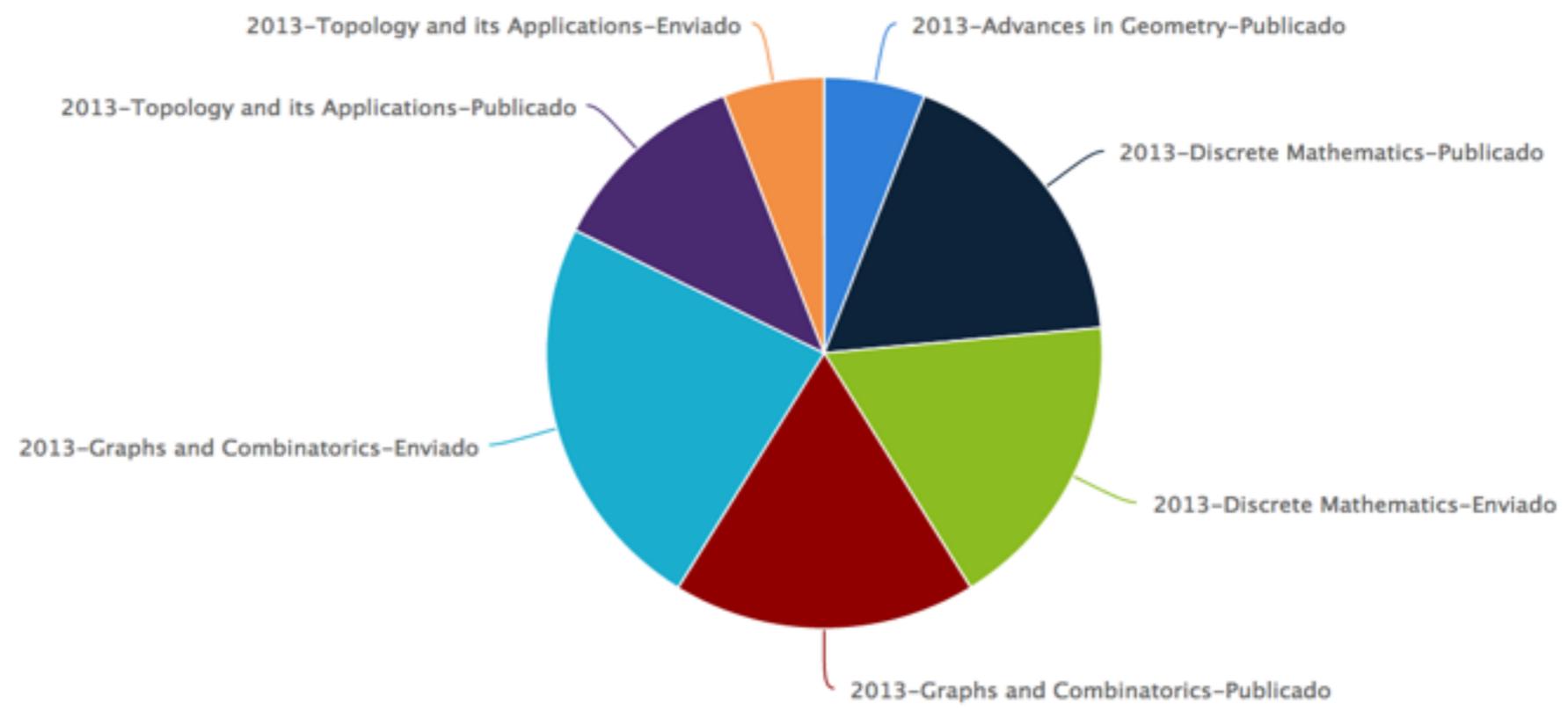
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Revista

—

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Future work

- Update retrieved information
- The table columns in the view should be customizable
- The chart type in the view should be customizable
- Integrate the best ideas from google scholar (h-index, i-index) and microsoft academic research (citation graph) for design a profile view in plone



Jorge Urrutia

Instituto de Matematicas, Universidad Nacional Autonoma de Mexico
 Computational Geometry - Discrete Geometry - Partial Orders - Graph Theory - Combinatorics
 Verified email at matem.unam.mx
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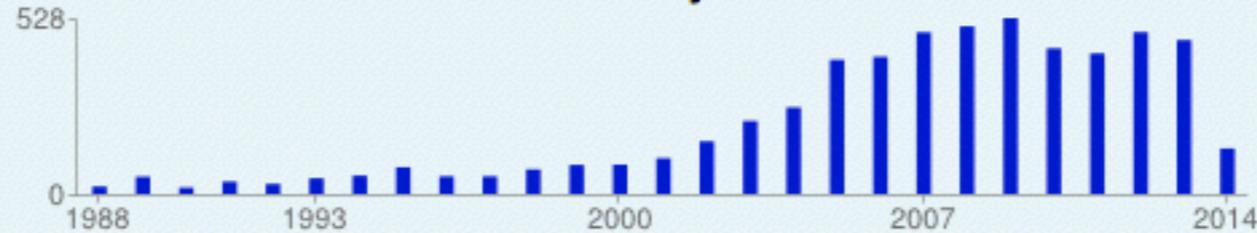
Co-authors

- [Evangelos Kranakis](#)
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- [Nicola Santoro](#)
- [Ivan Stojmenovic](#)
- [Prosenjit Bose](#)
- [Eduardo Rivera-Campo](#)
- [Ruy Fabila-Monroy](#)
- [José-Miguel Díaz-Báñez](#)
- [Vladimir Estivill-Castro](#)
- [Ladislav Stacho](#)
- [Pat Morin](#)
- [Edgar Chavez](#)
- [Diana Souza](#)

Citation indices

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Citations to my articles



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Title / Author	Cited by	Year
Routing with guaranteed delivery in ad hoc wireless networks P Bose, P Morin, I Stojmenović, J Urrutia Wireless networks 7 (6), 609-616	1778	2001
Compass routing on geometric networks E Kranakis, H Singh, J Urrutia in Proc. 11 th Canadian Conference on Computational Geometry	885	1999
Art gallery and illumination problems J Urrutia	383	2000



Jorge Urrutia  

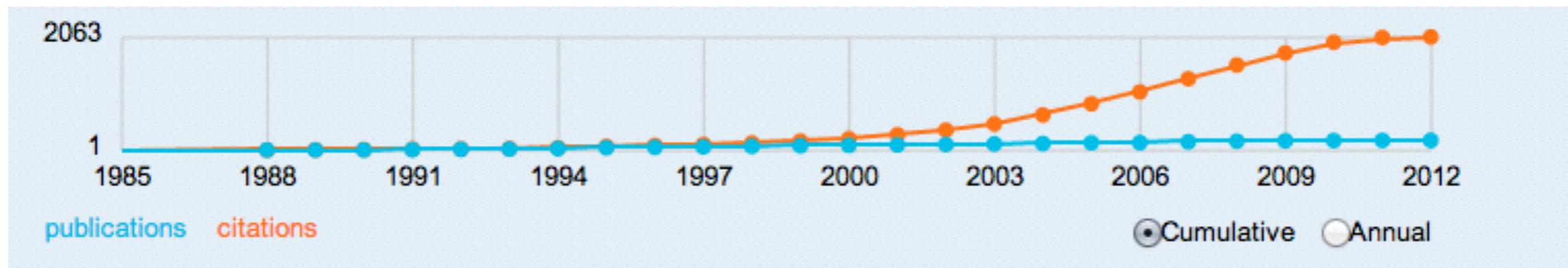
Universidad National Autonoma de Mexico

Publications: 207 | Citations: 2470

Fields: [Algorithms & Theory](#), [Scientific Computing](#), [Bioinformatics & Computational Biology](#) 

Collaborated with 233 co-authors from 1988 to 2012 | Cited by 2419 authors

 Edit



Publications (207) 

Sort by:

[Covering moving points with anchored disks](#)

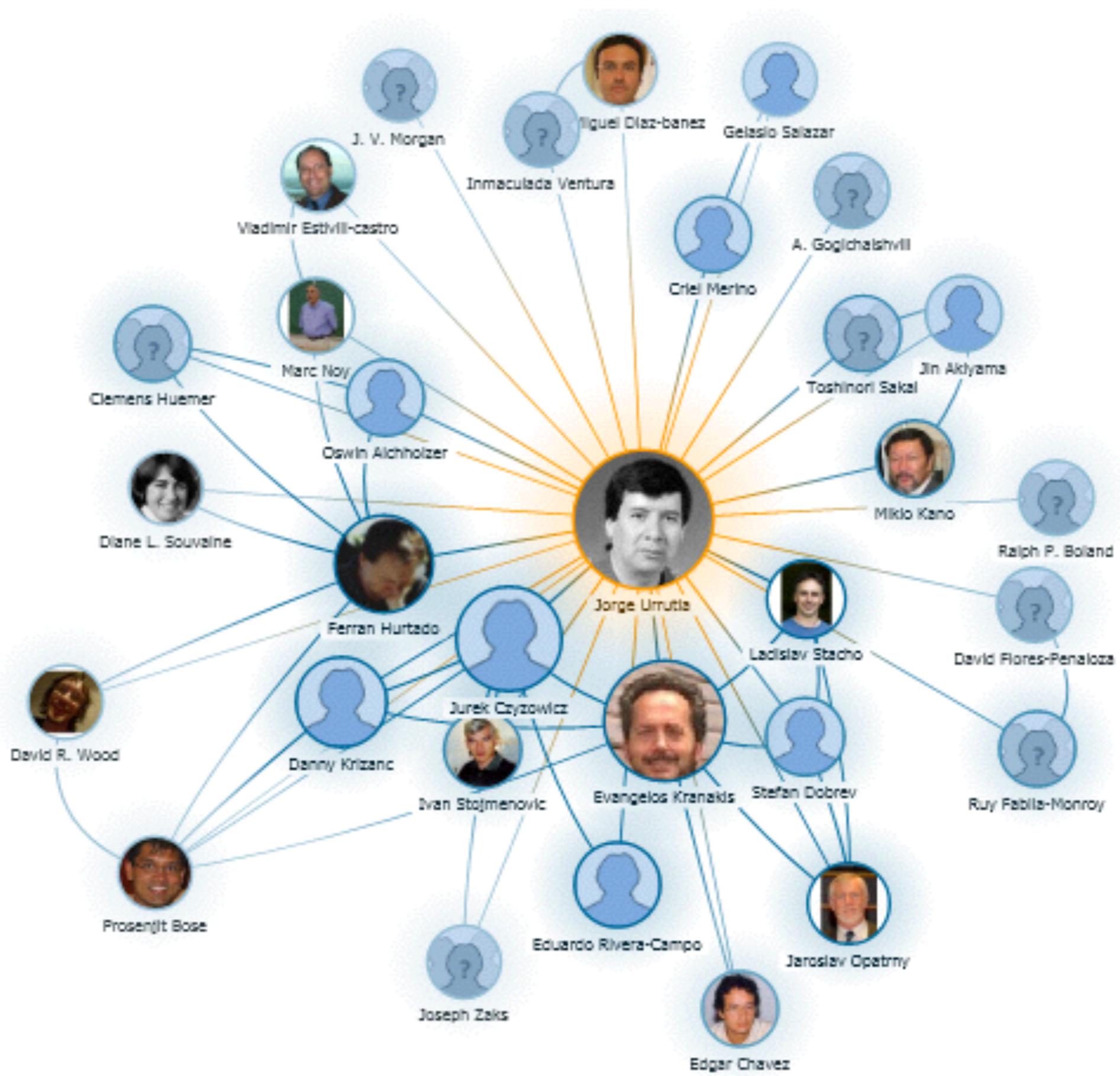
C. Bautista-Santiago, R. Fabila-Monroy, D. Lara, **J. Urrutia**

Published in 2012.

[Local 7-coloring for planar subgraphs of unit disk graphs](#) (Citations: 1)

Jurek Czyzowicz, Stefan Dobrev, H. González-Aguilar, Rastislav Kralovic, Evangelos Kranakis, Jaroslav Opatrný, Ladislav Stacho, **Jorge Urrutia**

Journal: *Theoretical Computer Science - TCS*, vol. 412, no. 18, pp. 1696-1704, 2011



Thanks