

Maintaining An Online Publication List

Tamara G. Kolda
Sandia National Labs
*Webpage Expert**

* Self-proclaimed

Importance of Online Publication List

- Take advantage of your rights to make your work accessible
 - Many journals allows the *Author's Final Version* to be posted on preprint servers like arXiv *
 - Some journals allow the *Published Version* to be posted on the author's home page *
- Make preprints available
 - Especially useful during job search
- Accuracy
 - Unusual names (O'Leary, van de Geijn)
 - Common names (Meza, Conroy)
- Two options
 - Use a tool like Google Scholar
 - Maintain your own list
 - *Not mutually exclusive options*

Author's Final Version:
Final accepted version *before* copyediting and formatting by journal staff

Published Version:
Final version that appears in the journal *after* copyediting and formatting by journal staff

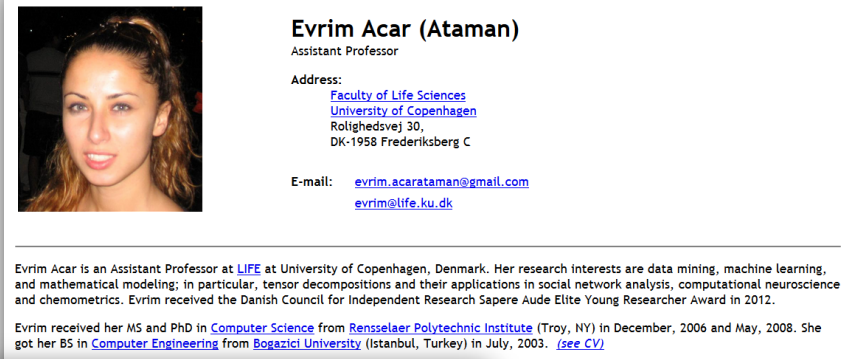


* SIAM allows authors these rights.

Interlude: Home Page Basics

- Critical Information
 - Actual clickable email
 - Work or mobile phone
 - Snail mail address
 - Brief bio ←
 - Publication list
- Optional Information
 - Picture
 - Skype, Twitter, Google+ ids
 - Software downloads
 - Awards
 - Service activities
 - Copies of talks
- Keep it up to date
 - Don't make it too complicated
 - Update with each new paper!
- Avoid personal information

Mathematicians generally fail to provide short bios, requiring the visitor to piece together a profile by clicking many links.



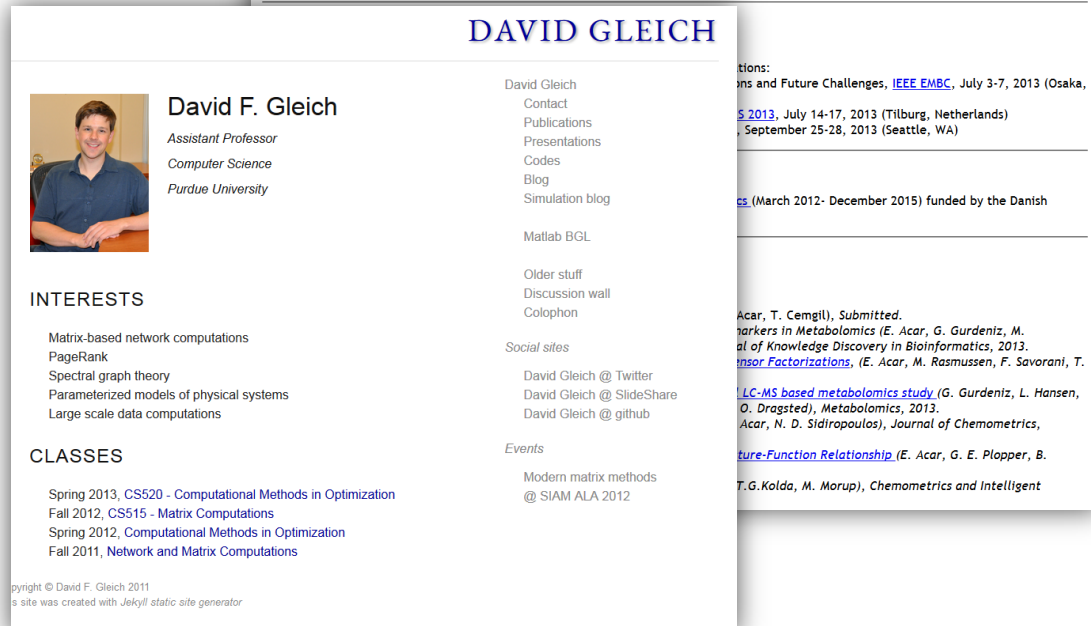
Evrin Acar (Ataman)
Assistant Professor

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Evrin Acar is an Assistant Professor at [LIFE](#) at University of Copenhagen, Denmark. Her research interests are data mining, machine learning, and mathematical modeling; in particular, tensor decompositions and their applications in social network analysis, computational neuroscience and chemometrics. Evrim received the Danish Council for Independent Research Sapere Aude Elite Young Researcher Award in 2012.

Evrin received her MS and PhD in [Computer Science](#) from [Rensselaer Polytechnic Institute](#) (Troy, NY) in December, 2006 and May, 2008. She got her BS in [Computer Engineering](#) from [Bogazici University](#) (Istanbul, Turkey) in July, 2003. ([see CV](#))



DAVID GLEICH

David F. Gleich
Assistant Professor
Computer Science
Purdue University

David Gleich
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 Publications
 Presentations
 Codes
 Blog
 Simulation blog

Matlab BGL

Older stuff
 Discussion wall
 Colophon

Social sites
 David Gleich @ Twitter
 David Gleich @ SlideShare
 David Gleich @ github

Events
 Modern matrix methods
 @ SIAM ALA 2012

INTERESTS

Matrix-based network computations
 PageRank
 Spectral graph theory
 Parameterized models of physical systems
 Large scale data computations

CLASSES

Spring 2013, CS520 - Computational Methods in Optimization
 Fall 2012, CS515 - Matrix Computations
 Spring 2012, Computational Methods in Optimization
 Fall 2011, Network and Matrix Computations

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tions:
 ns and Future Challenges, [IEEE EMBC](#), July 3-7, 2013 (Osaka,
[S 2013](#), July 14-17, 2013 (Tilburg, Netherlands)
 September 25-28, 2013 (Seattle, WA)


cs (March 2012- December 2015) funded by the Danish

Acar, T. Cemgil), Submitted.
 markers in Metabolomics (E. Acar, G. Gurdeniz, M.
 al of Knowledge Discovery in Bioinformatics, 2013.
[Tensor Factorizations](#), (E. Acar, M. Rasmussen, F. Savorani, T.
[LC-MS based metabolomics study](#) (G. Gurdeniz, L. Hansen,
 Q. Dragsted), Metabolomics, 2013.
 Acar, N. D. Sidiropoulos), Journal of Chemometrics,
[ture-Function Relationship](#) (E. Acar, G. E. Plapper, B.
 T. G. Kolda, M. Morup), Chemometrics and Intelligent

“HELPER” SITES

Google Scholar

- **Benefits**
 - Easy to set up
 - Automatically finds articles
 - Easy to correct
 - Counts citations (generously)
 - People can “follow” you
 - You can track citations to your work
- **Cons**
 - Doesn't always link to the correct PDF
 - Generates poor BibTeX (no DOI)
- **How to get started**
 - Requires Google (aka Gmail) account
- **Highly Recommended**
 - Extremely low maintenance



Nicholas J. Higham
 Richardson Professor of Applied Mathematics, The University of Manchester, UK
[Mathematics - Numerical analysis - Numerical linear algebra - Mathematical software](#)
 Verified email at ma.man.ac.uk
[Homepage](#)

	All	Since 2008
Citations	10705	5178
h-index	52	34
i10-index	113	93



Show: 20 1-20 Next >

Title / Author	Cited by	Year
Accuracy and Stability of Numerical Algorithms NJ Higham Siam	2795	1996
Functions of matrices: theory and computation NJ Higham Siam	482	2008
MATLAB guide DDJ Higham, NJ Higham Siam	319	2005
Computing the nearest correlation matrix—a problem from finance NJ Higham IMA journal of Numerical Analysis 22 (3), 329-343	300	2002
Computing a nearest symmetric positive semidefinite matrix NJ Higham Linear algebra and its applications 103, 103-118	264	1988
Computing the polar decomposition-with applications NJ Higham SIAM Journal on Scientific and Statistical Computing 7 (4), 1160-1174	248	1986
Handbook of writing for the mathematical sciences NJ Higham Siam	216	1998
The scaling and squaring method for the matrix exponential revisited NJ Higham SIAM Journal on Matrix Analysis and Applications 26 (4), 1179-1193	194	2005
FORTRAN codes for estimating the one-norm of a real or complex matrix, with applications to condition estimation NJ Higham ACM Transactions on Mathematical Software (TOMS) 14 (4), 381-396	189	1988
A survey of condition number estimation for triangular matrices NJ Higham Siam Review 29 (4), 575-596	179	1987
Matrix nearness problems and applications NJ Higham University of Manchester Department of Mathematics	170	1988
The accuracy of floating point summation		

Microsoft Academic Search

■ Benefits

- Most of what Google Scholar offers
- Includes DOI (unlike Google)
- Co-author graph
- Top keywords, conferences, journals

■ Cons

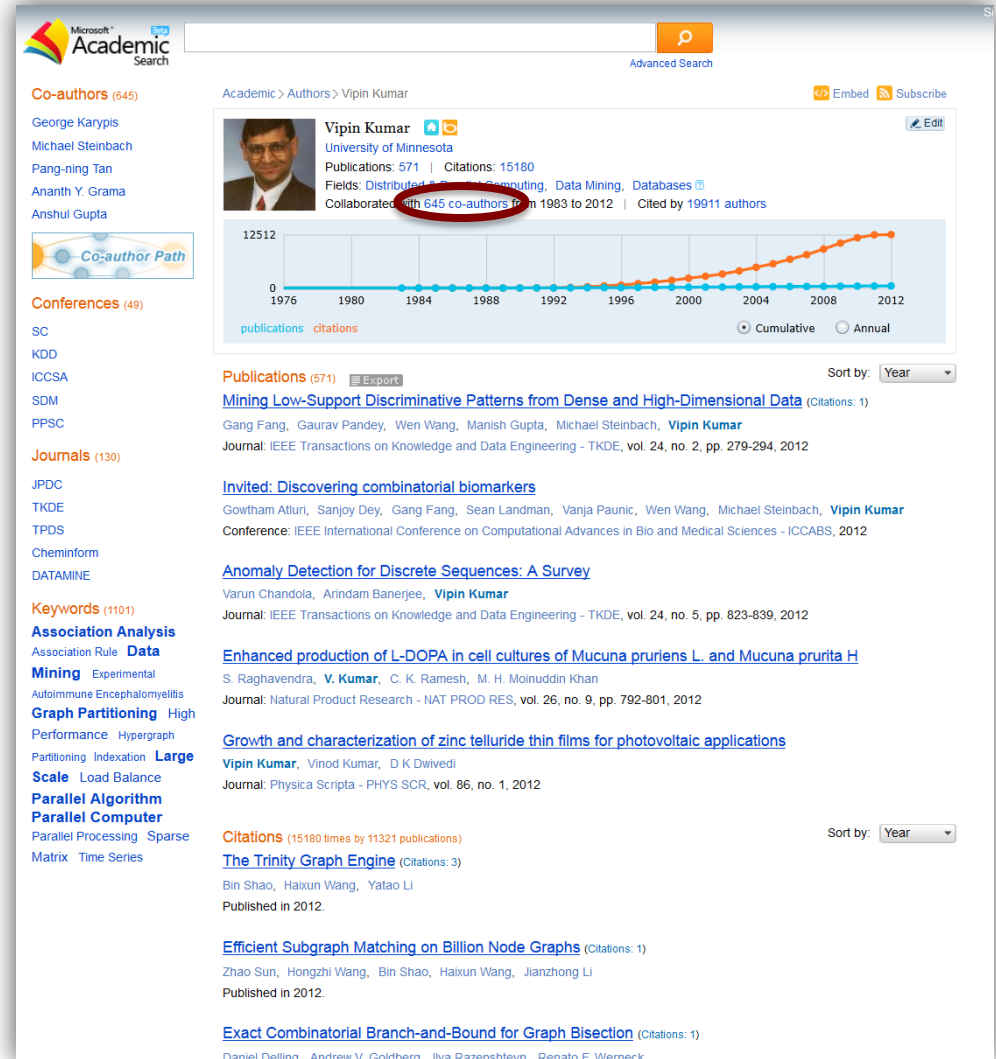
- Slow to find papers and preprints
- Lots of mistakes
- Fewer statistics (e.g., H-index)

■ How to Get Started

- academic.research.microsoft.com

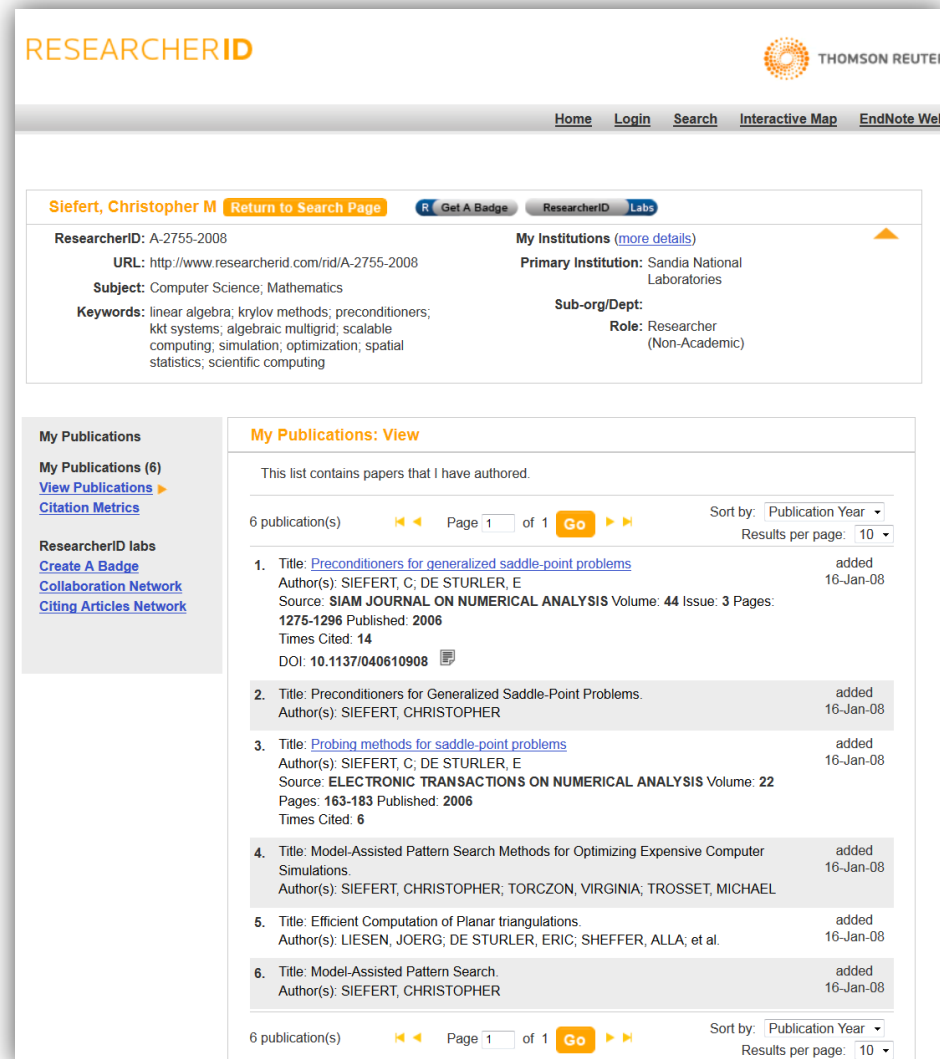
■ No Recommendation

- Lags behind Google in finding papers
- But really easy to set up...



ResearcherID (Thomson Reuters)

- **Benefits**
 - Import from Web of Science, etc.
 - Some useful metrics
 - BibTeX export
- **Cons**
 - No preprints!
 - Fewer cites than Google Scholar (partly due to mistakes)
 - Manual updating
 - No merge capability
 - Stupidly confused by upper/lowercase
 - Only includes researchers that have manually set up an account
- **How to Set Up**
 - www.researcherid.com
- **Not Recommended**
 - Too hard to make corrections



RESEARCHERID THOMSON REUTERS

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Siefert, Christopher M [Return to Search Page](#) [Get A Badge](#) [ResearcherID](#) [Labs](#)

ResearcherID: A-2755-2008 **My Institutions** [\(more details\)](#)

URL: <http://www.researcherid.com/rid/A-2755-2008> **Primary Institution:** Sandia National Laboratories

Subject: Computer Science; Mathematics **Sub-org/Dept:**

Keywords: linear algebra; krylov methods; preconditioners; kkt systems; algebraic multigrid; scalable computing; simulation; optimization; spatial statistics; scientific computing **Role:** Researcher (Non-Academic)

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ResearcherID labs
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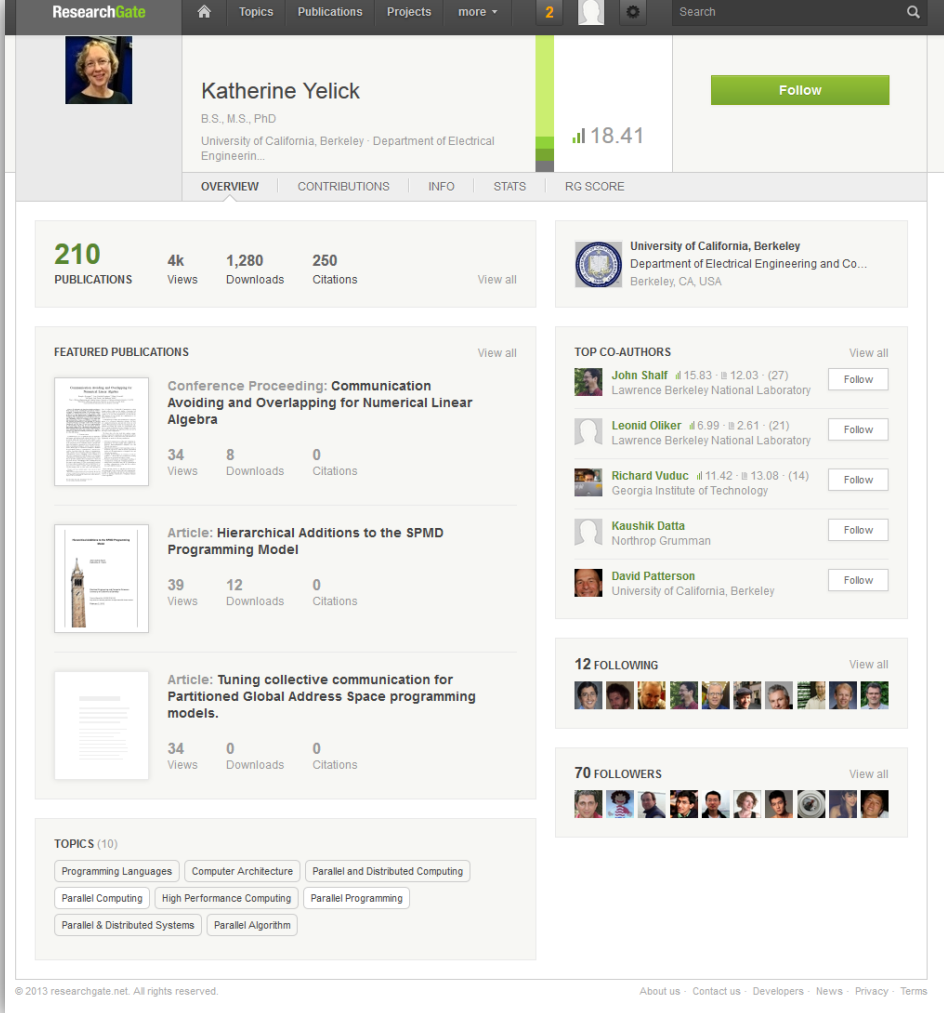
6 publication(s) Page 1 of 1 [Go](#) Sort by: Publication Year
Results per page: 10

- Title:** [Preconditioners for generalized saddle-point problems](#) added 16-Jan-08
Author(s): SIEFERT, C; DE STURLER, E
Source: SIAM JOURNAL ON NUMERICAL ANALYSIS Volume: 44 Issue: 3 Pages: 1275-1296 Published: 2006
Times Cited: 14
DOI: 10.1137/040610908
- Title:** Preconditioners for Generalized Saddle-Point Problems. added 16-Jan-08
Author(s): SIEFERT, CHRISTOPHER
- Title:** [Probing methods for saddle-point problems](#) added 16-Jan-08
Author(s): SIEFERT, C; DE STURLER, E
Source: ELECTRONIC TRANSACTIONS ON NUMERICAL ANALYSIS Volume: 22 Pages: 163-183 Published: 2006
Times Cited: 6
- Title:** Model-Assisted Pattern Search Methods for Optimizing Expensive Computer Simulations. added 16-Jan-08
Author(s): SIEFERT, CHRISTOPHER; TORCZON, VIRGINIA; TROSSET, MICHAEL
- Title:** Efficient Computation of Planar triangulations. added 16-Jan-08
Author(s): LIESEN, JOERG; DE STURLER, ERIC; SHEFFER, ALLA; et al.
- Title:** Model-Assisted Pattern Search. added 16-Jan-08
Author(s): SIEFERT, CHRISTOPHER

6 publication(s) Page 1 of 1 [Go](#) Sort by: Publication Year
Results per page: 10

ResearchGate


- **Pros**
 - Social network for publications
 - Allows user to upload PDF versions
 - Recommends papers and keeps you updated on publications of colleagues, etc.
- **Cons**
 - Insists that I work in Albuquerque!
 - No export to BibTeX!
 - Does not link to DOI!
 - Makes up its own “impact” score
 - “Spam” emails
- **Getting Started**
 - www.researchgate.net
- **No Recommendation**
 - Might be useful for technical social networking
 - Can be overwhelming



The screenshot shows the ResearchGate profile of Katherine Yelick. At the top, there's a navigation bar with links to Topics, Publications, Projects, and more. The profile header includes her name, degrees (B.S., M.S., PhD), and affiliation (University of California, Berkeley - Department of Electrical Engineering). A green 'Follow' button is visible. Below the header, a summary bar shows 210 publications, 4k views, 1,280 downloads, and 250 citations. The main content area is divided into 'FEATURED PUBLICATIONS' and 'TOP CO-AUTHORS'. The featured publications list three items: a conference proceeding, an article on SPMD programming, and an article on collective communication. The top co-authors list includes John Shalf, Leonid Oliker, Richard Vuduc, Kaushik Datta, and David Patterson. At the bottom, there are sections for '12 FOLLOWING' and '70 FOLLOWERS', each with a row of small profile pictures. A 'TOPICS' section at the bottom lists various computing-related topics like Programming Languages, Computer Architecture, and Parallel Computing.

Other Sites

- **ArXiv.org**
 - Highly recommended as preprint server
 - Many researchers follow certain topics
 - Quickly indexed by Google
 - Easy to post revisions
 - Can append final citation and comments
- **LinkedIn**
 - Manual input
 - Hard to maintain
- **Institutional Repositories**
 - Common in the UK
 - Work much like arXiv, but local
 - Benefit: Can post published version in some cases



arXiv.org > search

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All papers

arXiv.org Search Results

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The URL for this search is http://arxiv-web.arxiv.org/find/cs/1/au:+Pinar_A/0/1/0/all/0/1

Showing results 1 through 20 (of 20 total) for [au:Pinar_A](#)

1. [arXiv:1303.6385](#) [pdf, other]
Dynamics of Trust Reciprocation in Heterogenous MMOG Networks
[Ayush Singhal](#), [Karthik Subbian](#), [Jaideep Srivastava](#), [Tamara G. Kolda](#), [Ali Pinar](#)
Subjects: [Social and Information Networks \(cs.SI\)](#); [Physics and Society \(physics.soc-ph\)](#)
2. [arXiv:1302.6636](#) [pdf, other]
A Scalable Generative Graph Model with Community Structure
[Tamara G. Kolda](#), [Ali Pinar](#), [Todd Plantenga](#), [C. Seshadhri](#)
Subjects: [Social and Information Networks \(cs.SI\)](#); [Physics and Society \(physics.soc-ph\)](#)
3. [arXiv:1302.6220](#) [pdf, ps, other]
The importance of directed triangles with reciprocity: patterns and algorithms
[C. Seshadhri](#), [Ali Pinar](#), [Nurcan Durak](#), [Tamara G. Kolda](#)
Subjects: [Social and Information Networks \(cs.SI\)](#); [Data Structures and Algorithms \(cs.DS\)](#); [Physics and Society \(physics.soc-ph\)](#)
4. [arXiv:1301.5887](#) [pdf, other]
Counting Triangles in Massive Graphs with MapReduce
[Tamara G. Kolda](#), [Ali Pinar](#), [Todd Plantenga](#), [C. Seshadhri](#), [Christine Task](#)
Subjects: [Social and Information Networks \(cs.SI\)](#); [Distributed, Parallel, and Cluster Computing \(cs.DC\)](#)
5. [arXiv:1212.2264](#) [pdf, other]
A space efficient streaming algorithm for triangle counting using the birthday paradox
[Madhav Jha](#), [C. Seshadhri](#), [Ali Pinar](#)
Subjects: [Data Structures and Algorithms \(cs.DS\)](#); [Discrete Mathematics \(cs.DM\)](#); [Social and Information Networks \(cs.SI\)](#)
6. [arXiv:1210.8184](#) [pdf, other]
A stopping criterion for Markov chains when generating independent random graphs
[J. Ray](#), [A. Pinar](#), [C. Seshadhri](#)
Subjects: [Social and Information Networks \(cs.SI\)](#); [Discrete Mathematics \(cs.DM\)](#); [Physics and Society \(physics.soc-ph\)](#)
7. [arXiv:1210.5288](#) [pdf, other]
A Scalable Null Model for Directed Graphs Matching All Degree Distributions: In, Out, and Reciprocal
[Nurcan Durak](#), [Tamara G. Kolda](#), [Ali Pinar](#), [C. Seshadhri](#)
Comments: Camera ready version for IEEE Workshop on Network Science; fixed some typos in table
Subjects: [Social and Information Networks \(cs.SI\)](#); [Physics and Society \(physics.soc-ph\)](#)
8. [arXiv:1207.7125](#) [pdf, other]
Degree Relations of Triangles in Real-world Networks and Models
[Nurcan Durak](#), [Ali Pinar](#), [Tamara G. Kolda](#), [C. Seshadhri](#)
Journal-ref: CIKM '12: Proceedings of the 21st ACM International Conference on Information and Knowledge Management, ACM, pp. 1712-1716, 2012
Subjects: [Social and Information Networks \(cs.SI\)](#); [Physics and Society \(physics.soc-ph\)](#)
9. [arXiv:1202.5230](#) [pdf, other]
Triadic Measures on Graphs: The Power of Wedge Sampling
[C. Seshadhri](#), [Ali Pinar](#), [Tamara G. Kolda](#)

MAINTAINING YOUR OWN LIST

Maintaining Your Own List

■ Pros

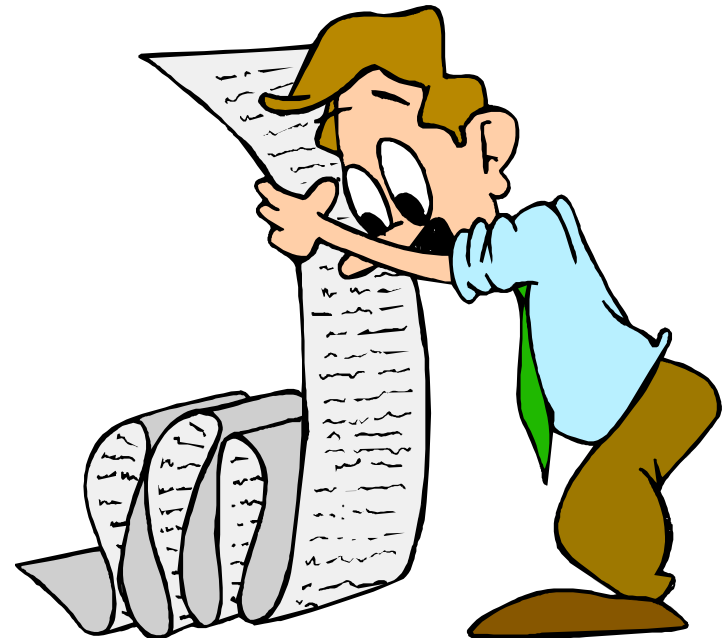
- Accuracy
- Includes published PDF (if allowed)
- Additional comments
 - Pointers to software
 - Notes about paper prizes, special issues, etc.
 - Corrections

■ Cons

- Requires effort

■ Systems

- Maintain publication database
- Manually update web page and CV



JabRef BibTeX Reference Manager

■ Features

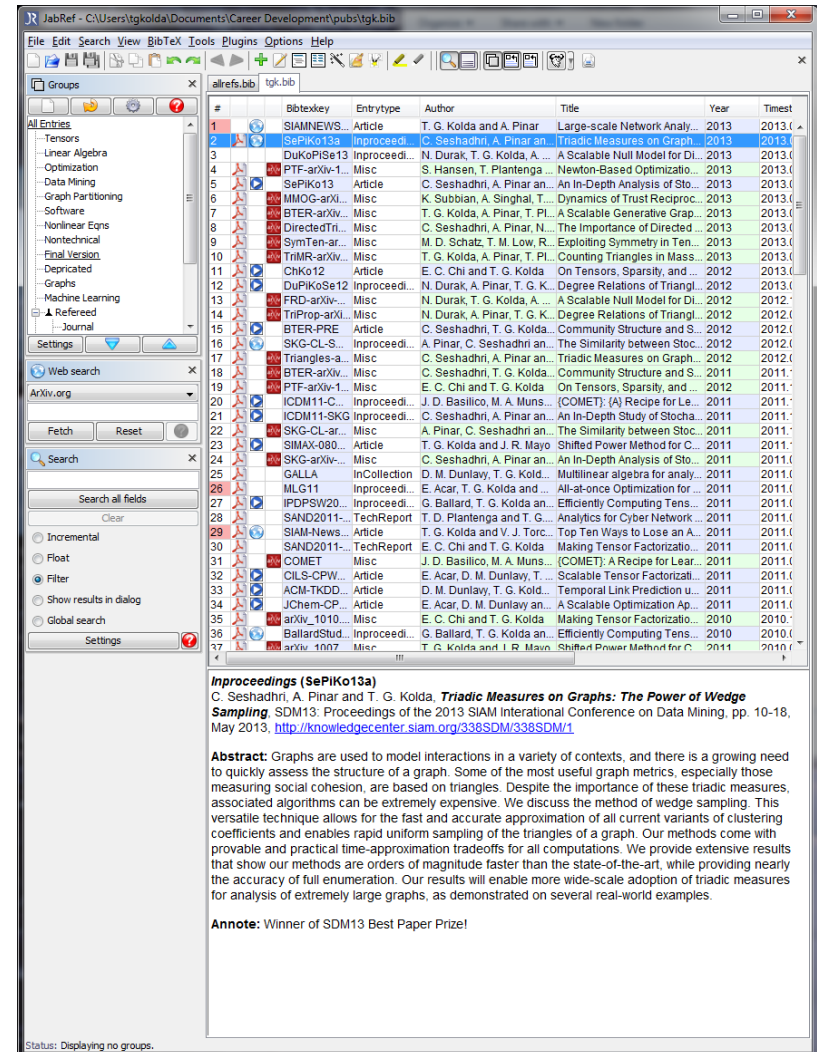
- Highly-customizable, advanced BibTeX editor
- Java based, so works on Windows, Mac, Linux, etc.
- Open source, active project, continually being improved
- Import from arXiv, Google Scholar, IEEEExplore, etc.
- Understands DOIs and hyperlinks
- Downloads and manages PDFs and related files
- Custom export to HTML (*)

■ Getting Started

- <http://jabref.sourceforge.net/>

■ Tammy's Export Filter

- <http://tinyurl.com/ljwnqz5>



Journal Article

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  Title   = {On Tensors, Sparsity, and Nonnegative Factorizations},  
  Author  = {Eric C. Chi and Tamara G. Kolda},  
  Journal = {SIAM Journal on Matrix Analysis and Applications},  
  Month   = dec,  
  Number  = {4},  
  Pages   = {1272-1299},  
  Volume  = {33},  
  Year    = {2012},  
  Abstract = {Tensors have found application in a variety of fields,  
              ranging from chemometrics to signal processing and beyond...},  
  Doi     = {10.1137/110859063},  
  Keywords = {nonnegative tensor factorization, nonnegative CANDECOMP-PARAFAC,  
              Poisson tensor factorization, Lee-Seung multiplicative updates,  
              majorization-minimization algorithms},  
  Oldversion = {PTF-arXiv-1112.2414},  
  Pdf      = {ChKo12.pdf},  
}
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Journal Article

E. C. Chi and T. G. Kolda, *On Tensors, Sparsity, and Nonnegative Factorizations*, SIAM Journal on Matrix Analysis and Applications 33(4):1272-1299, December 2012, [doi:10.1137/110859063](https://doi.org/10.1137/110859063). [PDF]
[BibTeX] {older version}

Abstract: Tensors have found application in a variety of fields, ranging from chemometrics to signal processing and beyond. In this paper, we consider the problem of multilinear modeling of sparse count data. Our goal is to develop a descriptive tensor factorization model of such data, along with appropriate algorithms and theory. To do so, we propose that the random variation is best described via a Poisson distribution, which better describes the zeros observed in the data as compared to the typical assumption of a Gaussian distribution. Under a Poisson assumption, we fit a model to observed data using the negative log-likelihood score. We present a new algorithm for Poisson tensor factorization called CANDECOMP-PARAFAC alternating Poisson regression (CP-APR) that is based on a majorization-minimization approach. It can be shown that CP-APR is a generalization of the Lee-Seung multiplicative updates. We show how to prevent the algorithm from converging to non-KKT points and prove convergence of CP-APR under mild conditions. We also explain how to implement CP-APR for large-scale sparse tensors and present results on several data sets, both real and simulated.

Keywords: nonnegative tensor factorization, nonnegative CANDECOMP-PARAFAC, Poisson tensor factorization, Lee-Seung multiplicative updates, majorization-minimization algorithms

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Journal Article

E. C. Chi and T. G. Kolda, *On Tensors, Sparsity, and Nonnegative Factorizations*, SIAM Journal on Matrix Analysis and Applications 33(4):1272-1299, December 2012, [doi:10.1137/110859063](https://doi.org/10.1137/110859063). [PDF]
[BibTeX] {*older version*}

Abstract: Tensors have found application in a variety of fields, ranging from chemometrics to signal processing and beyond. In this paper, we consider the problem of multilinear modeling of sparse count data. Our goal is to develop a descriptive tensor factorization model of such data, along with appropriate algorithms and theory. To do so, we propose that the random variation is best described via a Poisson distribution, which better describes the zeros observed in the assumption of a Gaussian distribution. Under a Poisson observed data using the negative log-likelihood score. We present factorization called CANDECOMP-PARAFAC alternating based on a majorization-minimization approach. It can be shown that CP-APR is a generalization of the Lee-Seung multiplicative updates. We show how to prevent the algorithm from converging to non-KKT points and prove convergence of CP-APR under mild conditions. We demonstrate the effectiveness of CP-APR on several tensor datasets and

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```
@article{ChKo12,  
  author = {Eric C. Chi and Tamara G. Kolda},  
  title = {On Tensors, Sparsity, and Nonnegative Factorizations},  
  journal = {SIAM Journal on Matrix Analysis and Applications},  
  month = {December},  
  year = {2012},  
  volume = {33},  
  number = {4},  
  pages = {1272-1299},  
  doi = {10.1137/110859063}  
}
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Conference Proceedings

```
@Inproceedings{SePiKo13a,  
  Title =          {Triadic Measures on Graphs: The Power of Wedge  
                    Sampling},  
  Author =         {C. Seshadhri and Ali Pinar and Tamara G. Kolda},  
  Booktitle =      {SDM13: Proceedings of the 2013 SIAM International  
                    Conference on Data Mining},  
  Pages =         {10--18},  
  Year =          {2013},  
  Month =         may,  
  Abstract =       {Graphs are used to model interactions...},  
  Annote =         {Winner of SDM13 Best Paper Prize!},  
  Keywords =       {triangle counting, directed triangle counting,  
                    clustering coefficient, Hoeffding's inequality},  
  Oldversion =     {Triangles-arXiv-1202.5230},  
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  Url =           {http://knowledgecenter.siam.org/338SDM/338SDM/1}  
}
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Conference Proceedings

C. Seshadhri, A. Pinar and T. G. Kolda, *Triadic Measures on Graphs: The Power of Wedge Sampling*, SDM13: Proceedings of the 2013 SIAM International Conference on Data Mining, pp. 10-18, May 2013, <http://knowledgecenter.siam.org/338SDM/338SDM/1>. [PDF] [BibTeX] {*older version*}

Abstract: Graphs are used to model interactions in a variety of contexts, and there is a growing need to quickly assess the structure of a graph. Some of the most useful graph metrics, especially those measuring social cohesion, are based on triangles. Despite the importance of these triadic measures, associated algorithms can be extremely expensive. We discuss the method of wedge sampling. This versatile technique allows for the fast and accurate approximation of all current variants of clustering coefficients and enables rapid uniform sampling of the triangles of a graph. Our methods come with provable and practical time-approximation tradeoffs for all computations. We provide extensive results that show our methods are orders of magnitude faster than the state-of-the-art, while providing nearly the accuracy of full enumeration. Our results will enable more wide-scale adoption of triadic measures for analysis of extremely large graphs, as demonstrated on several real-world examples.

Keywords: triangle counting, directed triangle counting, clustering coefficient, Hoeffding's inequality

Winner of SDM13 Best Paper Prize!

Annote

URL
(DOI preferred)

```
@Misc{BTER-arXiv-1112.3644,
  Title = {Community Structure and Scale-free Collections of
           {Erd\H{o}s-R\'enyi} Graphs},
  Author = {C. Seshadhri and Tamara G. Kolda and Ali Pinar},
  HowPublished = {arXiv:1112.3644},
  Month = dec,
  Year = {2011},
  Eprint = {1112.3644},
  Newversion = {BTER-PRE},
  Primaryclass = {cs.SI},
}
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Note LaTeX macros
auto-magically
transformed into HTML

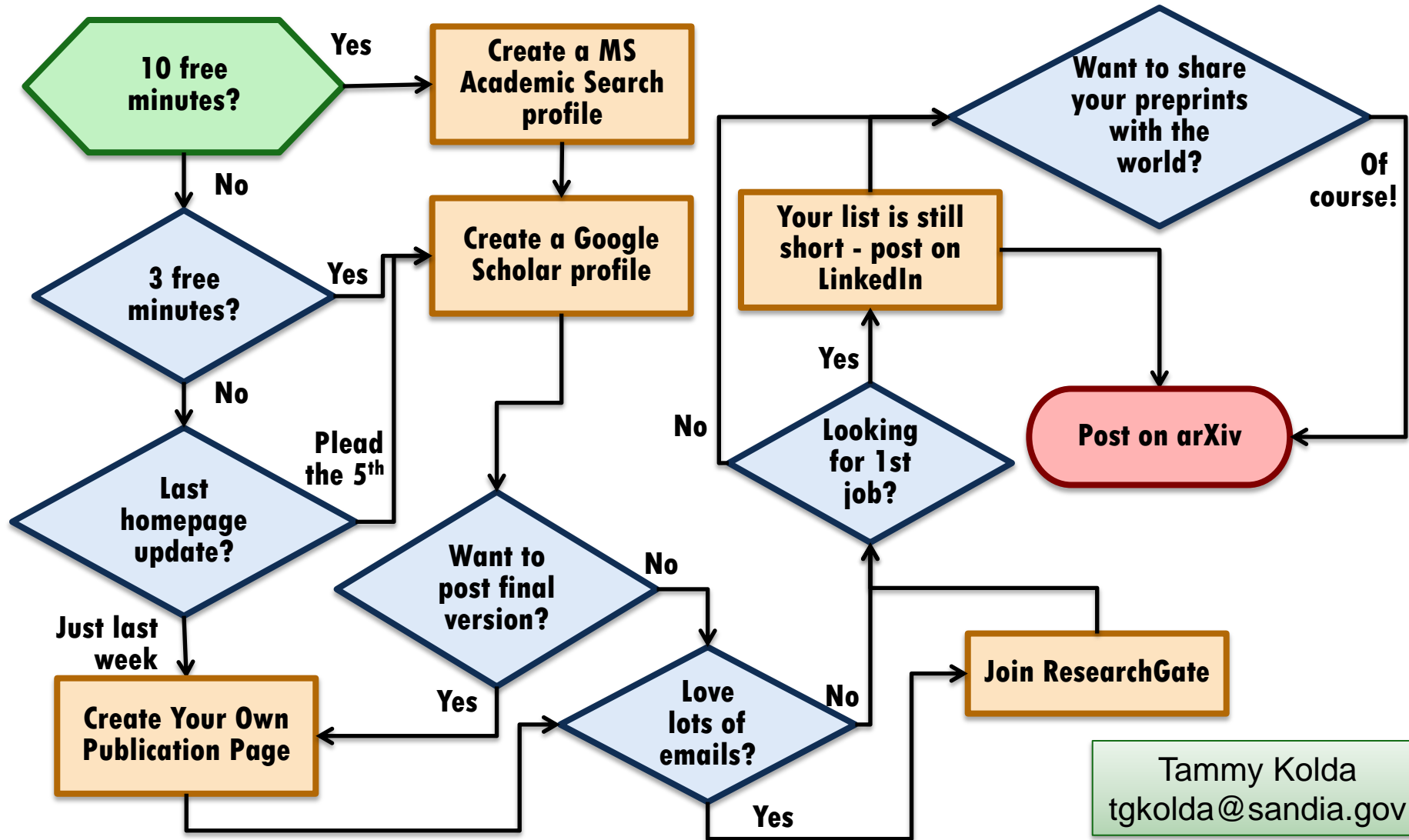
C. Seshadhri, T. G. Kolda and A. Pinar, **Community Structure and Scale-free Collections of Erdős-Rényi Graphs**, arXiv:1112.3644 [cs.SI], December 2011, <http://arxiv.org/1112.3644>. [PDF] [BibTeX] {newer version}

Lists
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Where to Post My Publication List?



Tammy Kolda
tgkolda@sandia.gov