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Statistics
Causal Inference
Network Science
Statistical Machine Learning
Computational Biology

	All	Since 2016
Citations	17812	12034
h-index	45	36
i10-index	94	76

TITLE	CITED BY	YEAR
The proximal Robbins-Monro method P Toulis, T Horel, EM Airoidi Journal of the Royal Statistical Society: Series B (Statistical Methodology)	4	2020
Causal inference with bipartite designs N Doudchenko, M Zhang, E Drynkin, E Airoidi, V Mirrokni, ... arXiv preprint arXiv:2010.02108	4	2020
Stacking models for nearly optimal link prediction in complex networks A Ghasemian, H Hosseinmardi, A Galstyan, EM Airoidi, A Clauset Proceedings of the National Academy of Sciences 117 (38), 23393-23400	11	2020
Nonstandard conditionally specified models for nonignorable missing data AM Franks, EM Airoidi, DB Rubin Proceedings of the National Academy of Sciences 117 (32), 19045-19053	7 *	2020
Identification and estimation of treatment and interference effects in observational studies on networks L Forastiere, EM Airoidi, F Mealli Journal of the American Statistical Association, 1-18	57	2020
Machine learning model for estimating confidential information response K Kenthapadi, SM Ambler, EM Airoidi US Patent 10,558,923		2020
Intersection of the web-based vaping narrative with COVID-19: A topic modeling study K Janmohamed, AN Soale, L Forastiere, W Tang, Y Sha, J Demant, ... Journal of Medical Internet Research 22 (10), e21743		2020
Latent space representations of hypergraphs K Turnbull, S Lunagomez Coria, C Nemeth, E Airoidi arxiv. org	1	2019
Package 'sgd' JL Kim, D Tran, P Toulis, T Lian, Y Kuang, E Airoidi		2019
The structure of negative social ties in rural village networks A Isakov, JH Fowler, EM Airoidi, NA Christakis Sociological Science 6, 197-218	10	2019

TITLE	CITED BY	YEAR
Model-assisted design of experiments in the presence of network-correlated outcomes GW Basse, EM Airoidi Biometrika 105 (4), 849-858	41 *	2018
Sampling on social networks from a decision theory perspective S Lunagómez, EM Airoidi arXiv preprint arXiv:1811.07829	2 *	2018
Cyclic motifs in the Sardex monetary network G Iosifidis, Y Charette, EM Airoidi, G Littera, L Tassiulas, NA Christakis Nature human behaviour 2 (11), 822-829	10	2018
A systematic investigation of classical causal inference strategies under mis-specification due to network interference V Karwa, EM Airoidi arXiv preprint arXiv:1810.08259	8	2018
Estimating Causal Effects on Social Networks L Forastiere, F Mealli, A Wu, EM Airoidi 2018 IEEE 5th International Conference on Data Science and Advanced ...		2018
Limitations of design-based causal inference and A/B testing under arbitrary and network interference GW Basse, EM Airoidi Sociological Methodology 48 (1), 136-151	12	2018
Estimating causal effects under interference using Bayesian generalized propensity scores L Forastiere, F Mealli, A Wu, E Airoidi arXiv preprint arXiv:1807.11038	7	2018
Optimizing cluster-based randomized experiments under monotonicity J Pouget-Abadie, V Mirrokni, DC Parkes, EM Airoidi Proceedings of the 24th ACM SIGKDD International Conference on Knowledge ...	11 *	2018
Hybrid mixed-membership blockmodels for inference on realistic network interactions EK Kao, ST Smith, EM Airoidi IEEE Transactions on Network Science and Engineering	5	2018
A co-evolution model of network structure and user behavior in online social networks: The case of network-driven content generation P Bhattacharya, TQ Phan, X Bai, EM Airoidi Information Systems Research	6 *	2018
Estimating peer-influence effects under homophily: Randomized treatments and insights N Biswas, EM Airoidi International Workshop on Complex Networks, 323-347	2	2018

TITLE	CITED BY	YEAR
Propensity score methodology in the presence of network entanglement between treatments P Toulis, A Volfovsky, EM Airoidi arXiv preprint arXiv:1801.07310	7	2018
The strength of weak ties: Causal evidence using people-you-may-know randomizations G Saint-Jacques, S Aral, E Brynjolfsson, Y Xu, EM Airoidi Workshop on Information Systems and Economics	2	2017
Bias reduction of peer influence effects with latent coordinates and community membership D Rajchwald, N Markuzon, E Airoidi 2017 IEEE International Conference on Big Data (Big Data), 3098-3103		2017
Modeling nonlinearity in multi-dimensional dependent data Q Han, J Ding, E Airoidi, V Tarokh 2017 IEEE Global Conference on Signal and Information Processing (GlobalSIP ...	2	2017
Quantifying homologous proteins and proteoforms D Malioutov, T Chen, J Jaffe, EM Airoidi, S Carr, B Budnik, N Slavov bioRxiv, 168765	14	2017
Detecting network effects: Randomizing over randomized experiments M Saveski, J Pouget-Abadie, G Saint-Jacques, W Duan, S Ghosh, Y Xu, ...	45	2017
SLANTS: Sequential adaptive nonlinear modeling of time series Q Han, J Ding, E Airoidi, V Tarokh IEEE Transactions on Signal Processing	10	2017
Post-transcriptional regulation across human tissues A Franks, E Airoidi, N Slavov PLoS computational biology 13 (5), e1005535	80	2017
Testing for arbitrary interference on experimentation platforms J Pouget-Abadie, M Saveski, G Saint-Jacques, W Duan, Y Xu, S Ghosh, ... arXiv preprint arXiv:1704.01190	14	2017
Exploiting social influence to magnify population-level behaviour change in maternal and child health: Study protocol for a randomised controlled trial of network targeting ... HB Shakya, D Stafford, DA Hughes, T Keegan, R Negron, J Broome, ... BMJ Open 7, e012996	28	2017
Causal inference for dyadic outcomes in social network analysis AN D'Amour, EM Airoidi		2017
The effective estimand A D'Amour, EM Airoidi	2	2017
Elements of estimation theory for causal effects in the presence of network interference DL Sussman, EM Airoidi arXiv preprint arXiv:1702.03578	29	2017

TITLE	CITED BY	YEAR
Rejoinder EM Airoidi Journal of the American Statistical Association 111 (516), 1410-1412		2016
Improving and evaluating topic models and other models of text (with discussion) EM Airoidi, JM Bischof Journal of the American Statistical Association 111 (516), 1381-1403	46	2016
Assessing the impact of granular privacy controls on content sharing and disclosure on Facebook H Cavusoglu, TQ Phan, H Cavusoglu, EM Airoidi Information Systems Research	43	2016
A computational approach to map nucleosome positions and alternative chromatin states with base pair resolution X Zhou, AW Blocker, EM Airoidi, EK O'Shea Elife 5, e16970	13	2016
Sharp total variation bounds for finitely exchangeable arrays A Volfovsky, EM Airoidi Statistics & Probability Letters 114, 54-59	3	2016
Defining the essential function of yeast Hsf1 reveals a compact transcriptional program for maintaining eukaryotic proteostasis EJ Solís, JP Pandey, X Zheng, DX Jin, PB Gupta, EM Airoidi, D Pincus, ... Molecular Cell	107	2016
Statistical network analysis with igraph G Csárdi, T Nepusz, EM Airoidi New York, NY: Springer	11	2016
Steady-state and dynamic gene expression programs in <i>Saccharomyces cerevisiae</i> in response to variation in environmental nitrogen EM Airoidi, D Miller, R Athanasiadou, N Brandt, F Abdul-Rahman, ... Molecular biology of the cell 27 (8), 1383-1396	27	2016
Estimating cellular pathways from an ensemble of heterogeneous data sources A Franks, F Markowetz, E Airoidi Annals of Applied Statistics, 00-00	1 *	2016
Observational studies with unknown time of treatment GW Basse, A Volfovsky, EM Airoidi arXiv preprint arXiv:1601.04083	2	2016
Privacy Tools project response to Common Rule Notice of Proposed Rule Making A Wood, E Airoidi, M Altman, Y de Montandre, U Gasser, D O'Brien, ...		2016
R package 'sgd' D Tran, P Toulis, T Lian, Y Kuang, E Airoidi	2 *	2016

TITLE	CITED BY	YEAR
Guidelines for the use and interpretation of assays for monitoring autophagy DJ Klionsky, K Abdelmohsen, A Abe, MJ Abedin, H Abeliovich, ... autophagy 12 (1), 1-222	7360	2016
Supplement to “Asymptotic and finite-sample properties of estimators based on stochastic gradients.” P Toulis, EM Airolidi Annals of Statistics	1	2016
Erratum to: Guidelines for the use and interpretation of assays for monitoring autophagy (Autophagy, 12, 1, 1-222, 10.1080/15548627.2015. 1100356 YJ Tan, Q Zeng, A Bagniewska-Zadworna, MH Vendelbo, SR Paludan, ... Autophagy 12 (2), 443-443		2016
Stochastic gradient methods for principled estimation with large datasets P Toulis, EM Airolidi Handbook of Big Data	3	2016
Misspecification, sparsity, and superpopulation inference for sparse social networks A D’Amour, E Airolidi	4	2016
Template-based models for genome-wide analysis of next-generation sequencing data at base-pair resolution AW Blocker, EM Airolidi Journal of the American Statistical Association, 00-00	1	2016
Geometric representations of random hypergraphs S Lunagómez, S Mukherjee, RL Wolpert, EM Airolidi Journal of the American Statistical Association, 00-00	15 *	2016
A model of text for experimentation in the social sciences ME Roberts, BM Stewart, EM Airolidi Journal of the American Statistical Association, 00-00	297	2016
Investigating the impact of network effects on content generation: Evidence from a large online student network P Bhattacharya, TQ Phan, X Bai, E Airolidi arXiv preprint arXiv:1512.06469	5	2015
Implicit stochastic approximation P Toulis, EM Airolidi arXiv preprint arXiv:1510.00967	8	2015
Stable Robbins-Monro approximations through stochastic proximal updates P Toulis, T Horel, EM Airolidi arXiv preprint arXiv:1510.00967	16 *	2015
Stochastic gradient descent methods for estimation with large data sets D Tran, P Toulis, EM Airolidi arXiv preprint arXiv:1509.06459	11	2015

TITLE	CITED BY	YEAR
Differential stoichiometry among core ribosomal proteins N Slavov, S Semrau, EM Airoidi, B Budnik, A van Oudenaarden Cell Reports	127	2015
Reversible, specific, active aggregates of endogenous proteins assemble upon heat stress EWJ Wallace, JL Kear-Scott, EV Pilipenko, MH Schwartz, PR Laskowski, ... Cell 162 (6), 1286-1298	262	2015
Quantitative visualization of alternative exon expression from RNA-seq data Y Katz, ET Wang, J Silterra, S Schwartz, B Wong, H Thorvaldsdóttir, ... Bioinformatics 31 (14), 2400-2402	116 *	2015
Scalable estimation strategies based on stochastic approximations: Classical results and new insights P Toulis, EM Airoidi Statistics and computing 25 (4), 781-795	35	2015
Analyzing statistical and computational tradeoffs of estimation procedures DL Sussman, A Volfovsky, EM Airoidi arXiv preprint arXiv:1506.07925	2	2015
Analyzing the co-evolution of network structure and content generation in online social networks P Bhattacharya, TQ Phan, EM Airoidi ECIS 2015 Completed Research Papers, 18	4	2015
Copula variational inference D Tran, DM Blei, EM Airoidi arXiv preprint arXiv:1506.03159	63	2015
A natural experiment of social network formation and dynamics TQ Phan, EM Airoidi Proceedings of the National Academy of Sciences 112 (21), 6595-6600	97	2015
Accounting for experimental noise reveals that mRNA levels, amplified by post-transcriptional processes, largely determine steady-state protein levels in yeast G Csárdi, A Franks, DS Choi, EM Airoidi, DA Drummond PLoS Genetics 11 (5), e1005206	141	2015
Predicting traffic volumes and estimating the effects of shocks in massive transportation systems R Silva, SM Kang, EM Airoidi Proceedings of the National Academy of Sciences 112 (18), 5643-5648	65	2015
Stability and optimality in stochastic gradient descent P Toulis, D Tran, EM Airoidi Artificial Intelligence and Statistics 51, 1290–1298	46 *	2015
A multivariate computational method to analyze high-content RNAi screening data J Rameseder, K Krismer, Y Dayma, T Ehrenberger, MK Hwang, ... Journal of Biomolecular Screening, 1087057115583037	8	2015

TITLE	CITED BY	YEAR
Causal inference for ordinal outcomes A Volfovsky, EM Airoidi, DB Rubin arXiv preprint arXiv:1501.01234	19	2015
Estimating a structured covariance matrix from multilab measurements in high-throughput biology AM Franks, G Csárdi, DA Drummond, EM Airoidi Journal of the American Statistical Association 110 (509), 27-44	12	2015
Species sampling priors for modeling dependence: An application to the detection of chromosomal aberrations F Bassetti, F Leisen, E Airoidi, M Guindani Nonparametric Bayesian Inference in Biostatistics, 97-114	2	2015
Robust estimation of topic summaries leveraging word frequency and exclusivity JM Bischof, EM Airoidi Handbook of Mixed Membership Models and Their Applications, 275-302		2014
Introduction to mixed membership models and methods EM Airoidi, DM Blei, EA Erosheva, SE Fienberg Handbook of Mixed Membership Models and Their Applications	26	2014
Handbook of Mixed Membership Models and Their Applications EM Airoidi, DM Blei, EA Erosheva, SE Fienberg Chapman & Hall/CRC	93	2014
Systems and methods for estimation and application of causal peer influence effects EM Airoidi US Patent App. 14/323,305	5	2014
Implicit temporal differences A Tamar, P Toulis, S Mannor, EM Airoidi	12	2014
Consistent estimation of dynamic and multi-layer networks Q Han, KS Xu, EM Airoidi Proceedings of The 32nd International Conference on Machine Learning	87 *	2014
Generalized species sampling priors with latent beta reinforcements EM Airoidi, T Costa, F Bassetti, F Leisen, M Guindani Journal of the American Statistical Association 109 (508), 1466-1480	26	2014
Stochastic gradient methods for principled estimation with massive data sets P Toulis, EM Airoidi arXiv preprint arXiv:1408.2923	1	2014
Asymptotic and finite-sample properties of estimators based on stochastic gradients P Toulis, EM Airoidi arXiv preprint arXiv:1408.2923	71 *	2014

TITLE	CITED BY	YEAR
The emerging area of statistical network analysis EM Airoidi Annual Review of Statistics and Its Application 2 (1)		2014
Statistical analysis of stochastic gradient methods for generalized linear models P Toulis, J Rennie, EM Airoidi Proceedings of The 31st International Conference on Machine Learning	53	2014
Learning modular structures from network data and node variables E Azizi, EM Airoidi, JE Galagan Proceedings of The 31st International Conference on Machine Learning, 1440-1448	12	2014
Bayesian inference from non-ignorable network sampling designs S Lunagómez, E Airoidi arXiv preprint arXiv:1401.4718	4	2014
R package 'networktomography' AW Blocker, P Koullick, EM Airoidi		2014
Valid inference from non-ignorable network sampling designs S Lunagomez, EM Airoidi arXiv preprint arXiv 1401	2	2014
Musashi proteins are post-transcriptional regulators of the epithelial-luminal cell state Y Katz, F Li, NJ Lambert, ES Sokol, WL Tam, AW Cheng, EM Airoidi, ... eLife	71	2014
Nonparametric estimation and testing of exchangeable graph models. J Yang, C Han, E Airoidi Artificial Intelligence and Statistics, 1060-1067	50	2014
Constant growth rate can be supported by decreasing energy flux and increasing aerobic glycolysis N Slavov, BA Budnik, D Schwab, E Airoidi, A van Oudenaarden Cell Reports	68	2014
A consistent histogram estimator for exchangeable graph models S Chan, E Airoidi Proceedings of The 31st International Conference on Machine Learning, 208-216	78	2014
Multi-way blockmodels for analyzing coordinated high-dimensional responses EM Airoidi, X Wang, X Lin The annals of applied statistics 7 (4), 2431	8	2013
The structural topic model and applied social science ME Roberts, BM Stewart, D Tingley, EM Airoidi Advances in neural information processing systems workshop on topic models ...	597 *	2013
Estimation of exchangeable graph models by stochastic blockmodel approximation SH Chan, TB Costa, EM Airoidi Global Conference on Signal and Information Processing (GlobalSIP), 2013 ...	5	2013

TITLE	CITED BY	YEAR
Stochastic blockmodel approximation of a graphon: Theory and consistent estimation EM Airoidi, TB Costa, SH Chan Advances in Neural Information Processing Systems (NIPS)	156	2013
Stephen E. Fienberg's contributions to categorical data analysis and the social sciences EM Airoidi CHANCE 26 (4), 12-14		2013
Inference of network summary statistics through network denoising P Balachandran, E Airoidi, E Kolaczyk arXiv preprint arXiv:1310.0423	16	2013
Quantifying condition-dependent intracellular protein levels enables high-precision fitness estimates KA Geiler-Samerotte, T Hashimoto, MF Dion, BA Budnik, EM Airoidi, ... PLOS ONE 8 (9), e75320	5	2013
Estimating selection on synonymous codon usage from noisy experimental data EWJ Wallace, EM Airoidi, DA Drummond Molecular biology and evolution 30 (6), 1438-1453	39	2013
R package 'tpe' AD Shieh, TB Hashimoto, EM Airoidi		2013
Estimating latent processes on a network from indirect measurements EM Airoidi, AW Blocker Journal of the American Statistical Association 108 (501), 149-164	31	2013
Generalized species sampling priors with latent beta reinforcements T Costa, M Guindani, F Bassetti, F Leisen, EM Airoidi	2	2013
Causal estimation of peer influence effects E Kao, P Toulis, EM Airoidi, DB Rubin NIPS Workshop on Social Network and Social Media Analysis	18	2012
Stochastic blockmodels with a growing number of classes DS Choi, PJ Wolfe, EM Airoidi Biometrika 99 (2), 273-284	224	2012
A conserved cell growth cycle can account for the environmental stress responses of divergent eukaryotes N Slavov, EM Airoidi, A van Oudenaarden, D Botstein Molecular Biology of the Cell 23 (10), 1986-1997	46	2012
Graphlet decomposition of a weighted network H Azari Soufiani, EM Airoidi Arxiv preprint arXiv:1203.2821	53 *	2012
Summarizing topical content with word frequency and exclusivity J Bischof, EM Airoidi Proceedings of the 29th International Conference on Machine Learning (ICML ...)	105	2012

TITLE	CITED BY	YEAR
Capturing topical content with frequency and exclusivity J Bischof, EM Airoldi ICML	1	2012
Tree preserving embedding AD Shieh, TB Hashimoto, EM Airoldi Proceedings of the National Academy of Sciences 108 (41), 16916-16921	28	2011
Confidence sets for network structure EM Airoldi, DS Choi, PJ Wolfe Statistical Analysis and Data Mining: The ASA Data Science Journal 4 (5 ...	20 *	2011
Small sets of interacting proteins suggest functional linkage mechanisms via Bayesian analogical reasoning EM Airoldi, KA Heller, R Silva Bioinformatics 27 (13), i374-i382	5 *	2011
Network sampling and classification: An investigation of network model representations EM Airoldi, X Bai, KM Carley Decision support systems 51 (3), 506-518	46	2011
Deconvolution of mixing time series on a graph AW Blocker, EM Airoldi Uncertainty in Artificial Intelligence (UAI)	4	2011
An entropy approach to disclosure risk assessment: Lessons from real applications and simulated domains EM Airoldi, X Bai, BA Malin Decision support systems 51 (1), 10-20	25	2011
Polytope samplers for inference in ill-posed inverse problems. E Airoldi, B Haas Artificial Intelligence and Statistics, 110-118	10	2011
Mapping dynamic histone acetylation patterns to gene expression in nanog-depleted murine embryonic stem cells F Markowetz, KW Mulder, EM Airoldi, IR Lemischka, OG Troyanskaya PLoS Comput Biol 6 (12), e1001034	28	2010
Reconceptualizing the classification of PNAS articles EM Airoldi, EA Eroshova, SE Fienberg, C Joutard, T Love, S Shringarpure Proceedings of the National Academy of Sciences 107 (49), 20899-20904	45	2010
Analysis and design of RNA sequencing experiments for identifying isoform regulation Y Katz, ET Wang, EM Airoldi, CB Burge Nature methods 7 (12), 1009-1015	1163	2010
Ranking relations using analogies in biological and information networks R Silva, K Heller, Z Ghahramani, EM Airoldi Annals of Applied Statistics 4 (2), 615	9	2010

TITLE	CITED BY	YEAR
Hierarchical Bayesian mixed-membership models and latent pattern discovery EM Airolidi, SE Fienberg, C Joutard, T Love Frontiers of Statistical Decision Making and Bayesian Analysis: In Honor of ...	5	2010
A survey of statistical network models A Goldenberg, AX Zheng, SE Fienberg, EM Airolidi Foundations and Trends in Machine Learning 2 (2), 129-233	881	2010
Systems-level dynamic analyses of fate change in murine embryonic stem cells R Lu, F Markowetz, RD Unwin, JT Leek, EM Airolidi, BD MacArthur, ... Nature 462 (7271), 358-362	272	2009
Aneuploidy prediction and tumor classification with heterogeneous hidden conditional random fields Z Barutcuoglu, EM Airolidi, V Dumeaux, RE Schapire, OG Troyanskaya Bioinformatics 25 (10), 1307-1313	3	2009
The exchangeable graph model EM Airolidi Technical Report 1, Department of Statistics, Harvard University	5	2009
Advances in Neural Information Processing Systems EM Airolidi, D Blei, S Fienberg, E Xing, D Koller, D Schuurmans, Y Bengio, ... Massachusetts Institute of Technology Press	5	2009
Predicting cellular growth from gene expression signatures EM Airolidi, C Huttenhower, D Gresham, C Lu, AA Caudy, MJ Dunham, ... PLoS Computational Biology 5 (1), e1000257	119	2009
Network Analysis of Wikipedia R Warren, E Airolidi, D Banks Statistical Methods in e-Commerce Research, 81-102	35 *	2008
Mixed membership stochastic blockmodels EM Airolidi, DM Blei, SE Fienberg, EP Xing Journal of Machine Learning Research 9 (3), 1981-2014	2070	2008
Discovery of latent patterns with hierarchical bayesian mixed-membership models and the issue of model choice CJ Joutard, EM Airolidi, TM Love Data Mining Patterns: New Methods and Applications, 240-275	25 *	2008
Coordination of growth rate, cell cycle, stress response, and metabolic activity in yeast MJ Brauer, C Huttenhower, EM Airolidi, R Rosenstein, JC Matese, ... Molecular biology of the cell 19 (1), 352-367	541	2008
Getting started in probabilistic graphical models EM Airolidi PLoS Computational Biology 3 (12), e252	72	2007
Mixed membership analysis of genome-wide expression data EM Airolidi, SE Fienberg, EP Xing arXiv preprint arXiv:0711.2520	8	2007

TITLE	CITED BY	YEAR
Statistical Network Analysis: Models, Issues, and New Directions: ICML 2006 Workshop on Statistical Network Analysis, Pittsburgh, PA, USA, June 29, 2006, Revised Selected Papers EM Airoldi, DM Blei, SE Fienberg, A Goldenberg, EP Xing, AX Zheng, Eds Springer	20 *	2007
Whose ideas? Whose words? Authorship of Ronald Reagan's radio addresses EM Airoldi, SE Fienberg, KK Skinner PS: Political Science and Politics 40 (3), 501-506	25	2007
Mixed membership stochastic blockmodels. arXiv EM Airoldi, DM Blei, SE Fienberg, EP Xing	2	2007
Discussion on the paper by Handcock, Raftery and Tantrum TAB Snijders, T Robinson, AC Atkinson, M Riani, IC Gormley, TB Murphy, ... Journal of the Royal Statistical Society: Series A-Statistics in Society 170 ...	8	2007
Statistical network analysis: Models, issues, and new directions EADM Blei, SEFA Goldenberg, EPXAX Zheng	1	2007
Discussion of the paper by Handcock, Rafferty and Tantrum J Kuha, A Skrondal Journal of the Royal Statistical Society. Series A: Statistics in Society ...	1	2007
A dynamic theory of social failure in isolated communities E Airoldi, D Blei, E Xing, S Fienberg NIPS Workshop on Network Analysis		2007
A new machine learning classifier for high dimensional healthcare data R Padman, X Bai, EM Airoldi Medinfo 2007: Proceedings of the 12th World Congress on Health (Medical ...	3	2007
Statistical discovery of signaling pathways from an ensemble of weakly informative data sources EM Airoldi, F Markowetz, DM Blei, O Troyanskaya Poster presentation at the 2007 NIPS Workshop on Statistical Models of ...	1	2007
Confidentiality preserving audits of electronic medical record access B Malin, E Airoldi Studies in health technology and informatics 129 (1), 320	28	2007
Bayesian mixed-membership models of complex and evolving networks EM Airoldi Carnegie Mellon University, School of Computer Science	16	2006
Combining stochastic block models and mixed membership for statistical network analysis EM Airoldi, DM Blei, SE Fienberg, EP Xing ICML Workshop on Statistical Network Analysis, 57-74	27	2006
The effects of location access behavior on re-identification risk in a distributed environment B Malin, E Airoldi International Workshop on Privacy Enhancing Technologies, 413-429	13	2006

TITLE	CITED BY	YEAR
Extracting names from websites containing lists of people W Gronim, E Airoldi, L Sweeney		2006
Mixed membership stochastic block models for relational data with application to protein-protein interactions EM Airoldi, DM Blei, SE Fienberg, EP Xing Proceedings of the international biometrics society annual meeting	174	2006
Discovering latent patterns with hierarchical Bayesian mixed-membership models and the issue of model choice EM Airoldi, SE Fienberg, C Joutard, TM Love In Data Mining Patterns: New Methods and Applications (P. Poncelet, F ...	14	2006
Who wrote Ronald Reagan's radio addresses? EM Airoldi, AG Anderson, SE Fienberg, KK Skinner Bayesian Analysis 1 (2), 289-319	64	2006
Latent mixed-membership allocation models of relational and multivariate attribute data EM Airoldi, DM Blei, SE Fienberg, EP Xing Valencia & ISBA Joint World Meeting on Bayesian Statistics	6	2006
Sentiment extraction from unstructured texts: Markov blankets and meta-heuristic search EM Airoldi, X Bai, R Padman	3	2006
Sampling algorithms for pure network topologies: a study on the stability and the separability of metric embeddings EM Airoldi, KM Carley ACM SIGKDD Explorations Newsletter 7 (2), 13-22	76	2005
A latent mixed membership model for relational data E Airoldi, D Blei, E Xing, S Fienberg Proceedings of the 3rd international workshop on Link discovery, 82-89	61	2005
A network analysis model for disambiguation of names in lists M Bradley, E Airoldi, KM Carley Computational and Mathematical Organization Theory 11 (2), 119	5	2005
A network analysis model for disambiguation of names in lists B Malin, E Airoldi, KM Carley Computational & Mathematical Organization Theory 11 (2), 119-139	90	2005
Integrating utility into face de-identification R Gross, E Airoldi, B Malin, L Sweeney International Workshop on Privacy Enhancing Technologies, 227-242	116	2005
Configurable security protocols for multi-party data analysis with malicious participants B Malin, E Airoldi, S Edoho-Eket, Y Li 21st International Conference on Data Engineering (ICDE'05), 533-544	19	2005

TITLE	CITED BY	YEAR
On learning parsimonious models for extracting consumer opinions X Bai, R Padman, E Airoldi Proceedings of the 38th Annual Hawaii International Conference on System ...	36	2005
Technologies to defeat fraudulent schemes related to email requests. EM Airoldi, B Malin, L Sweeney AAAI Spring Symposium: AI Technologies for Homeland Security, 133-135	3	2005
Bayesian models for frequent terms in text EM Airoldi, WW Cohen, SE Fienberg Proceedings of the Classification Society of North America and INTERFACE ...	31 *	2005
Data mining challenges for electronic safety: the case of fraudulent intent detection in e-mails E Airoldi, B Malin Proceedings of the workshop on privacy and security aspects of data mining ...	39	2004
Markov blankets and meta-heuristics search: Sentiment extraction from unstructured texts E Airoldi, X Bai, R Padman International Workshop on Knowledge Discovery on the Web, 167-187	53	2004
Recovering latent time-series from their observed sums: network tomography with particle filters. E Airoldi, C Faloutsos Proceedings of the tenth ACM SIGKDD international conference on Knowledge ...	22	2004
Sentiment extraction from unstructured text using tabu search-enhanced markov blanket X Bai, R Padman, E Airoldi Carnegie Mellon University, School of Computer Science [Institute for ...	45	2004
ScamSlam: An architecture for learning the criminal relations behind scam spam E Airoldi, B Malin Carnegie Mellon University, School of Computer Science [Institute for ...	8	2004
Notes on the Negative Binomial distribution for word occurrences EM Airoldi		2004
Who Wrote Ronald Reagan's Radio Addresses? EM Airoldi Carnegie Mellon University, Department of Statistics	7	2003
Advances in network tomography EM Airoldi Carnegie Mellon University. Center for Automated Learning and Discovery	4	2003