# Mark Crovella

List of Publications by Year
in descending order

| | | 430874 | 330143 |
|---|---|---|---|
| **62**<br>papers | **6,779**<br>citations | **18**<br>h-index | **37**<br>g-index |
| **63**<br>all docs | **63**<br>docs citations | **63**<br>times ranked | **3711**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Self-similarity in World Wide Web traffic: evidence and possible causes. IEEE/ACM Transactions on Networking, 1997, 5, 835-846. | 3.8 | 2,006 |
| 2 | Diagnosing network-wide traffic anomalies. , 2004, , . | | 631 |
| 3 | Mining anomalies using traffic feature distributions. Computer Communication Review, 2005, 35, 217-228. | 1.8 | 386 |
| 4 | Generating representative Web workloads for network and server performance evaluation. Performance Evaluation Review, 1998, 26, 151-160. | 0.6 | 335 |
| 5 | Diagnosing network-wide traffic anomalies. Computer Communication Review, 2004, 34, 219-230. | 1.8 | 318 |
| 6 | Characterization of network-wide anomalies in traffic flows. , 2004, , . | | 304 |
| 7 | Delegation forwarding. , 2008, , . | | 278 |
| 8 | Structural analysis of network traffic flows. , 2004, , . | | 243 |
| 9 | On Choosing a Task Assignment Policy for a Distributed Server System. Journal of Parallel and Distributed Computing, 1999, 59, 204-228. | 4.1 | 238 |
| 10 | Changes in Web client access patterns: Characteristics and caching implications. World Wide Web, 1999, 2, 15-28. | 4.0 | 233 |
| 11 | Constraint-Based Geolocation of Internet Hosts. IEEE/ACM Transactions on Networking, 2006, 14, 1219-1232. | 3.8 | 215 |
| 12 | Virtual landmarks for the internet. , 2003, , . | | 194 |
| 13 | Structural analysis of network traffic flows. Performance Evaluation Review, 2004, 32, 61-72. | 0.6 | 159 |
| 14 | On the marginal utility of network topology measurements. , 2001, , . | | 112 |
| 15 | On the geographic location of internet resources. IEEE Journal on Selected Areas in Communications, 2003, 21, 934-948. | 14.0 | 106 |
| 16 | Describing and forecasting video access patterns. , 2011, , . | | 96 |
| 17 | Going the Distance for Protein Function Prediction: A New Distance Metric for Protein Interaction Networks. PLoS ONE, 2013, 8, e76339. | 2.5 | 94 |
| 18 | Diversity of forwarding paths in pocket switched networks. , 2007, , . | | 90 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 19 | Efficient algorithms for large-scale topology discovery. , 2005, , . | | 75 |
| 20 | A performance evaluation of hyper text transfer protocols. , 1999, , . | | 70 |
| 21 | Measuring Web performance in the wide area. Performance Evaluation Review, 1999, 27, 37-48. | 0.6 | 59 |
| 22 | Deployment of an Algorithm for Large-Scale Topology Discovery. IEEE Journal on Selected Areas in Communications, 2006, 24, 2210-2220. | 14.0 | 54 |
| 23 | Network Kriging. IEEE Journal on Selected Areas in Communications, 2006, 24, 2263-2272. | 14.0 | 51 |
| 24 | Single-cell transcriptional networks in differentiating preadipocytes suggest drivers associated with tissue heterogeneity. Nature Communications, 2020, 11, 2117. | 12.8 | 37 |
| 25 | Using loss pairs to discover network properties. , 2001, , . | | 29 |
| 26 | Improved Algorithms for Network Topology Discovery. Lecture Notes in Computer Science, 2005, , 149-162. | 1.3 | 29 |
| 27 | A performance evaluation of hyper text transfer protocols. Performance Evaluation Review, 1999, 27, 188-197. | 0.6 | 26 |
| 28 | Functional protein representations from biological networks enable diverse cross-species inference. Nucleic Acids Research, 2019, 47, e51-e51. | 14.5 | 23 |
| 29 | One for all and all for One: Improving replication of genetic studies through network diffusion. PLoS Genetics, 2018, 14, e1007306. | 3.5 | 22 |
| 30 | Critical path analysis of TCP transactions. Computer Communication Review, 2000, 30, 127-138. | 1.8 | 22 |
| 31 | Geometric Exploration of the Landmark Selection Problem. Lecture Notes in Computer Science, 2004, , 63-72. | 1.3 | 19 |
| 32 | Community-oriented network measurement infrastructure (CONMI) workshop report. Computer Communication Review, 2006, 36, 41-48. | 1.8 | 19 |
| 33 | Inferring invisible traffic. , 2010, , . | | 19 |
| 34 | Efficient algorithms for large-scale topology discovery. Performance Evaluation Review, 2005, 33, 327-338. | 0.6 | 19 |
| 35 | Learning network structure from passive measurements. , 2007, , . | | 16 |
| 36 | Locality in a web of streams. Communications of the ACM, 2005, 48, 82-88. | 4.5 | 12 |

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|---|---------|-----|-----------|
| 37 | Understanding geolocation accuracy using network geometry. , 2013, , . | | 12 |
| 38 | Internet performance modeling: the state of the art at the turn of the century. Performance Evaluation, 2000, 42, 91-108. | 1.2 | 11 |
| 39 | The Advantages of Multiple Parallelizations in Combinatorial Search. Journal of Parallel and Distributed Computing, 1994, 21, 110-123. | 4.1 | 10 |
| 40 | Router primitives for programmable active measurement. , 2009, , . | | 10 |
| 41 | A statistical framework for efficient monitoring of end-to-end network properties. , 2005, , . | | 9 |
| 42 | Analysis of brain region-specific co-expression networks reveals clustering of established and novel genes associated with Alzheimer disease. Alzheimer's Research and Therapy, 2020, 12, 103. | 6.2 | 9 |
| 43 | Closed-Loop Opinion Formation. , 2017, , . | | 8 |
| 44 | On the emergence of highly variable distributions in the autonomous system topology. Computer Communication Review, 2003, 33, 41-49. | 1.8 | 7 |
| 45 | On the choice of a spanning tree for greedy embedding of network graphs. Networking Science, 2013, 3, 2-12. | 1.2 | 7 |
| 46 | Critical path analysis of TCP transactions. Computer Communication Review, 2001, 31, 80-102. | 1.8 | 6 |
| 47 | Corrections to "How Does TCP Generate Pseudo-Self-Similarity?". Computer Communication Review, 2002, 32, 30-30. | 1.8 | 6 |
| 48 | Long range mutual information. Performance Evaluation Review, 2008, 36, 32-37. | 0.6 | 6 |
| 49 | Estimating intrinsic dimension via clustering. , 2012, , . | | 5 |
| 50 | Low-stretch greedy embedding heuristics. , 2012, , . | | 5 |
| 51 | Online ratings: Convergence towards a positive perspective?. , 2014, , . | | 5 |
| 52 | Interpretable network propagation with application to expanding the repertoire of human proteins that interact with SARS-CoV-2. GigaScience, 2021, 10, . | 6.4 | 5 |
| 53 | Inferring visibility. Computer Communication Review, 2012, 42, 151-162. | 1.8 | 4 |
| 54 | Mixture models of endhost network traffic. , 2013, , . | | 3 |

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|---|---|---|---|
| 55 | Assessing Candidate Preference through Web Browsing History. , 2018, , . | | 3 |
| 56 | A statistical framework for efficient monitoring of end-to-end network properties. Performance Evaluation Review, 2005, 33, 390-391. | 0.6 | 2 |
| 57 | Ranking of ACM SIGCOMM computer communication review. Computer Communication Review, 2008, 38, 79-80. | 1.8 | 2 |
| 58 | Leveraging Website Popularity Differences to Identify Performance Anomalies. , 2021, , . | | 1 |
| 59 | The skillful interrogation of the internet. Computer Communication Review, 2019, 49, 14-15. | 1.8 | 1 |
| 60 | Matrix (factorization) reloaded: flexible methods for imputing genetic interactions with cross-species and side information. Bioinformatics, 2020, 36, i866-i874. | 4.1 | 1 |
| 61 | A fine-grained distance metric for analyzing Internet topology. , 2012, , . | | 0 |
| 62 | Curvature-based Analysis of Network Connectivity in Private Backbone Infrastructures. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2022, 6, 1-32. | 1.8 | 0 |