

Jon Kleinberg

Professional Activities:

- Member of National Academies Computer Science and Telecommunications Board.
- Member of National Science Foundation Computing and Information Science and Engineering Advisory Committee.
- Editorial board: Springer book series in Information Science and Statistics.
- Editorial board: Springer Lecture Notes in Computer Science (LNCS).
- Editorial board: Journal of Internet Mathematics.
- Editorial board: Foundations and Trends in Theoretical Computer Science.
- Program Committee: ACM Conf. on Hypertext and Hypermedia, 2008.
- Program Committee: ACM Conf. on Electronic Commerce, 2008.
- Program Committee: ACM Intl. Conf. on Web Search and Data Mining, 2008.
- Program Committee: ACM SIGCOMM Workshop on Online Social Networks, 2008.
- Chair of CS Computational Biology Recruiting Committee.
- Member of Cornell CIS Council.
- Member of Cornell Institute for the Social Sciences Theme Project on Networks.

Publications:

- D. Liben-Nowell, J. Kleinberg. Tracing Information Flow on a Global Scale Using Internet Chain-Letter Data. Proc. National Academy of Sciences, 105(12):4633-4638, 25 March 2008.
- L. Meyerguz, J. Kleinberg, R. Elber. The network of sequence flow between protein structures. Proceedings of the National Academy of Sciences 10.1073, 27 June 2007.
- J. Kleinberg, E. Tardos. Balanced Outcomes in Social Exchange Networks. Proc. 40th ACM Symposium on Theory of Computing, 2008.
- L. Backstrom, J. Kleinberg, R. Kumar, J. Novak. Spatial Variation in Search Engine Queries. Proc. 17th International World Wide Web Conference, 2008.
- E. Breck, D. Easley, D. Fan, J. Kleinberg, L. Lee, J. Wofford, R. Zabih. A new start: Innovative introductory AI-centered courses at Cornell. Proc. AAAI Spring Symposium, 2008.
- J. Kleinberg The Wireless Epidemic. Nature (News and Views) 449(2007), 287-288.
- J. Kleinberg. Cascading Behavior in Networks: Algorithmic and Economic Issues. In Algorithmic Game Theory (N. Nisan, T. Roughgarden, E. Tardos, V. Vazirani, eds.), Cambridge University Press, 2007.
- J. Kleinberg, M. Sandler. Using mixture models for collaborative filtering. J. Comput. Syst. Sci. 74(1): 49-69 (2008)
- D. Liben-Nowell, J. Kleinberg. The link-prediction problem for social networks. J. American Soc. for Information Science 58(7): 1019-1031 (2007)

Lectures:

- "Link Structures, Information Flow, and Social Processes," Invited Plenary Lecture at ACM Conf. on Hypertext and Hypermedia, June 2008.

- "Social Networking," Cornell Silicon Valley, April 2008.
- "Computational Perspectives on Large-Scale Social Network Data," CRA/CCC Data-Intensive Computing Symposium, March 2008.
- "Social Networking," Cornell Entrepreneur Network / Computing and Information Science, March 2008.
- "Modeling Social and Economic Exchange in Networks," NYU Courant Lecture, March 2008.
- "The Geography of Social and Information Networks," NYU Courant Lecture, March 2008.
- "Computational Perspectives on Large-Scale Social Network Data," Stanford Univ. MS&E Colloquium, January 2008.
- "Search Problems and Information Flow in Social Networks," Univ. Chicago Graduate School of Business, November 2007.
- "The Geography of Social and Information Networks," Univ. Toronto Keyfitz Lecture in the Mathematics and the Social Sciences, October 2007.
- "Challenges in Mining Social Network Data" Univ. Toronto CS Department Distinguished Lecture Series, October 2007.
- "Challenges in Mining Social Network Data: Processes, Privacy, and Paradoxes," Invited Plenary Lecture at ACM Intl. Conf. on Knowledge Discovery and Data Mining, August 2007.

Awards and Honors:

2007-2008:

- National Academy of Engineering: elected 2008.
- Smithsonian "37 Under 36: America's Young Innovators in the Arts & Sciences," 2007
- Kenneth A. Goldman '71 Excellence in Teaching Award, Cornell College of Engineering, 2008.

Cumulative (before June 2007):

- American Academy of Arts and Sciences: elected 2007.
- Rolf Nevanlinna Prize, International Mathematical Union, 2006.
- John D. and Catherine T. MacArthur Foundation Fellowship, 2005.
- National Academy of Sciences Award for Initiatives in Research, 2001.
- David and Lucile Packard Foundation Fellowship, 1999.
- Office of Naval Research Young Investigator Award, 1999.
- Alfred P. Sloan Research Fellowship, 1997.
- NSF Faculty Early Career Development Award, 1997.
- IBM Outstanding Innovation Award, 2002.
- Cornell Association of C.S. Undergraduates, Faculty of the Year Award, 2002.
- Fiona Ip Li '78 and Donald Li '75 Excellence in Teaching Award, Cornell College of Engineering, 2000.
- Best paper award, Intl. World Wide Web Conference, 2007.
- Best paper award, Intl. Conf. on Information Proc. in Sensor Networks, 2006.
- Best research paper award, ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining, 2005.

- Best research paper award, ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining, 2003.
- Best paper award, ACM Symposium on Principles of Database Systems, 2000.
- Machtey Award for best student paper, IEEE Symp. Foundations C.S., 1996.
- George M. Sprowls Ph.D. dissertation prize, MIT Dept. of Elec. Eng. and Computer Science, 1996.

Selected Press Appearances:

- "Reaping Results: Data-Mining Goes Mainstream," New York Times, 20 May 2007.
- "Data sharing threatens privacy," Nature (News), 11 October 2007.
- "Net Worker," Smithsonian, October 2007.
- "What a Wi-Fi Worm Outbreak Would Look Like," IEEE Spectrum, January 2008.
- "From ranking blogs to predicting posture," MSNBC, 28 January 2008.
- "A Big World After All? (Editors' Choice: Highlights of the recent literature)" Science, 11 April 2008.
- "How did that chain letter get to my inbox?" US News & World Report, 21 May 2008.

Selected Publications:

- J. Kleinberg, E. Tardos. Algorithm Design. Addison-Wesley, 2005.
- J. Kleinberg. Navigation in a Small World. Nature 406(2000), 845.
- J. Kleinberg. Authoritative sources in a hyperlinked environment. Journal of the ACM 46(1999).