

Uriel Feige, Publications, October 2011.

Papers are sorted by categories. For papers that have more than one version (typically, journal version and conference proceedings), the different versions are combined into one entry in the list. STOC is shorthand for “Annual ACM Symposium on the Theory of Computing”. FOCS is shorthand for “Symposium on Foundations of Computer Science”.

Journal publications

1. Uriel Feige, Amos Fiat, and Adi Shamir. “Zero Knowledge Proofs of Identity”. *Journal of Cryptology*, 1988, Vol. 1, pp. 77-94.
Preliminary version appeared in *Proc. of the 19th STOC*, 1987, pp. 210-217.
2. Uriel Feige, David Peleg, Prabhakar Raghavan and Eli Upfal. “Randomized Broadcast in Networks”. *Random Structures and algorithms*, 1(4), 1990, pp. 447-460.
Preliminary version appeared in proceedings of SIGAL International Symposium on Algorithms, Tokyo, Japan, August 1990.
3. Uriel Feige and Adi Shamir. “Multi-Oracle Interactive Protocols with Constant Space Verifiers”. *Journal of Computer and System Sciences*, Vol. 44, pp. 259-271, April 1992.
Preliminary version appeared in *Proceedings of Fourth Annual Conference on Structure in Complexity Theory*, June 1989.
4. Uriel Feige. ”On the Complexity of Finite Random Functions”. *Information Processing Letters* 44 (1992) 295-296.
5. Uriel Feige, David Peleg, Prabhakar Raghavan and Eli Upfal. “Computing With Noisy Information”. *SIAM Journal on Computing*, 23(5), 1001-1018, 1994.
Preliminary version appeared in *Proceedings of 22nd STOC*, 1990, pp. 128-137.
6. Noga Alon, Uriel Feige, Avi Wigderson, and David Zuckerman. ”Derandomized Graph Products”. *Computational Complexity* 5 (1995) 60-75.
7. Uriel Feige. “A Tight Upper Bound on the Cover Time for Random Walks on Graphs”. *Random Structures and Algorithms*, 6(1), 51-54, 1995.
8. Uriel Feige. “A Tight Lower Bound on the Cover Time for Random Walks on Graphs”. *Random Structures and Algorithms*, 6(4), 433-438, 1995.

9. Uriel Feige, Shafi Goldwasser, Laszlo Lovasz, Shmuel Safra and Mario Szegedy. "Interactive Proofs and the Hardness of Approximating Cliques". *Journal of the ACM*, Vol. 43, No. 2, March 1996, pp. 268–292.
Preliminary version, "Approximating Clique is Almost NP-complete", appeared in *Proc. of 32nd FOCS, 1991*, pp. 2-12.
10. Don Coppersmith, Uriel Feige, and James Shearer. "Random Walks on Regular and Irregular Graphs". *SIAM J. Discrete Math.*, Vol. 9, No. 2, pp. 301–308, May 1996.
11. Greg Barnes and Uriel Feige. "Short Random Walks on Graphs". *SIAM Journal on Discrete Mathematics*, 9(1), 19–28, 1996.
Preliminary version appeared in *Proc. of 25th STOC, 1993*, pp. 728-737.
12. Uriel Feige. "A Fast Randomized LOGSPACE Algorithm for Graph Connectivity". *Theoretical Computer Science* 169 (1996) 147–160.
Preliminary version appeared in *Proc. of ICALP 94, Springer Verlag 820*, 499-507.
13. Uriel Feige and Carsten Lund. "On the Hardness of Computing the Permanent of Random Matrices". *Computational Complexity* 6 (1996/1997) 101-132.
Preliminary version appeared in *Proc. of 24th STOC, 1992*, pp. 643-654.
14. Uriel Feige. "Randomized Graph Products, Chromatic Numbers, and the Lovasz ϑ Function". *Combinatorica* 17 (1) (1997) 79–90.
Preliminary version appeared in *Proc. of 27th STOC, 1995*, 635–640.
15. Uriel Feige and Joe Kilian. "On limited versus polynomial nondeterminism". *Chicago Journal of Theoretical Computer Science*, 12 March 1997.
<http://www.cs.uchicago.edu/pub/publications/cjtcs/index.html>
16. Uriel Feige. "A Spectrum of Time-Space Trade-offs for Undirected $s-t$ Connectivity". *Journal of Computer and System Sciences*, Vol. 54, No. 2, April 1997, 305–316.
Preliminary version appeared as "A Randomized Time-Space Tradeoff of $\tilde{O}(m\hat{R})$ for USTCON", in *Proc. of 34th FOCS, 1993*, 238-246.
17. Uriel Feige. "Collecting Coupons on Trees, and the Cover Time of Random Walks". *Comput. Complex.* 6 (1996/1997). 341–356. Dedicated to the memory of Roman Smolensky.
18. Uriel Feige. "A Threshold of $\ln n$ for Approximating Set Cover". *Journal of the ACM*, 45(4), 634–652, 1998.
Preliminary version appeared in *Proc. of 28th STOC, 1996*, 314–318.

19. Uriel Feige and Joe Kilian. “Zero Knowledge and the Chromatic Number”. *Journal of Computer and System Sciences*, 57(2), 187–199, 1998.
Preliminary version appeared in *Proc. of 11th IEEE Conference on Computational Complexity, 1996, IEEE Computer Society Press, 278–287*.
20. Uriel Feige, Dror Lapidot and Adi Shamir. “Multiple Non-Interactive Zero Knowledge Proofs Under General Assumption”. *SIAM Journal on Computing*, 29(1), 1–28, 1999.
Preliminary version appeared in *Proc. of 31st FOCS, 1990, pp. 308-317*.
21. Uriel Feige and Robert Krauthgamer. “Networks on which hot-potato routing does not livelock”. *Distributed Computing*, 13(1), 53–58, 2000.
22. Uriel Feige and Robert Krauthgamer. “Finding and certifying a large hidden clique in a semi-random graph”. *Random Structures and Algorithms*, 16(2), 195–208, 2000.
23. Uriel Feige and Joe Kilian. “Finding OR in a noisy broadcast network”. *Information Processing Letters*, 73, 69–75, 2000.
24. Uriel Feige. “Approximating the bandwidth via volume respecting embeddings”. *Journal of Computer and System Sciences*, 60(3), 510–539, 2000.
Preliminary version appeared in *Proc. of 30th STOC, 1998, 90-99*.
25. Uriel Feige and Joe Kilian. “Two Prover Protocols – Low Error at Affordable Rates”. *SIAM Journal on Computing*, 30(1), 324–346, 2000.
A preliminary version, that includes also a part that is not included in the journal version, appeared in *Proc. of 26th STOC, 1994, 172-183*.
26. Yonatan Aumann, Judit Bar-Ilan, and Uriel Feige. “On the Cost of Recomputing: Tight Bounds on Pebbling with Faults”. *Theoretical Computer Science* 233(1-2), 247–261, 2000.
A preliminary version appeared in *Proc. of ICALP 94, Springer Verlag 820, pp. 47-58*.
27. Uriel Feige, Guy Kortsarz, and David Peleg. “The dense k -subgraph problem”. *Algorithmica* (2001) 29(3): 410–421.
28. Uriel Feige, Marek Karpinski, Michael Langberg. “A Note on Approximating Max-Bisection on Regular Graphs”. *Information Processing Letters* 79(4):181–188 (2001).
29. Uriel Feige and Michael Langberg. “Approximation algorithms for maximization problems arising in graph partitioning”. *Journal of Algorithms* 41, 174–211 (2001).

30. Uriel Feige and Joe Kilian. “Heuristics for semirandom graph problems” *Journal of Computer and System Sciences* 63, 639–671 (2001).
A preliminary version appeared in *Proc. of 39th FOCS, 1998*, 674–683.
31. Uriel Feige and Gideon Schechtman. “On the optimality of the random hyperplane rounding technique for MAX CUT”. *Random Structures and Algorithms* 20(3), 403–440, May 2002.
A preliminary version (of part of the paper) appeared in *Proc. of 33rd STOC, 2001*, 433–442.
32. Uriel Feige, Marek Karpinski, Michael Langberg. “Improved Approximation of MAX-CUT on Graphs of Bounded Degree”. *Journal of Algorithms* 43(2), 201–219, 2002.
33. Uriel Feige and Robert Krauthgamer. “A polylogarithmic approximation of the minimum bisection”. *SIAM Journal on Computing*, 31(4): 1090–1118 (2002).
Preliminary version appeared in *Proc. of 41st FOCS 2000*, 105–115.
34. Uriel Feige, Magnus Halldorsson, Guy Kortsarz and Aravind Srinivasan. “Approximating the domatic number”. *SIAM J. Comput.* 32(1): 172–195 (2002).
Preliminary version in *Proc. of 32nd STOC, 2000*, 134–143.
35. Uriel Feige and Giora Rayzman. “On the drift of short schedules”. *Theoretical Computer Science*, 289(1), 473–484, 2002.
A preliminary version appeared in *Proc. of Third Italian Conference on Algorithms and Complexity, LNCS 1203, Springer, 1997*, 74–85.
36. Uriel Feige and Christian Scheideler. “Improved bounds for acyclic job shop scheduling”. *Combinatorica*, 22(3), 361–399, 2002.
A preliminary version appeared in *Proc. of 30th STOC, 1998*, 624–633.
37. Uriel Feige and Oleg Verbitsky. “Error Reduction by Parallel Repetition – a Negative Result”. *Combinatorica*, 22 (4), 461–478, 2002.
A preliminary version appeared in *Proc. of 11th IEEE Conference on Computational Complexity, 1996, IEEE Computer Society Press*, 70–76.
38. Uriel Feige and Orly Yahalom. ”On the complexity of finding balanced oneway cuts”. *Information Processing Letters* 87, 1–5, 2003.

39. Uriel Feige, Robert Krauthgamer, Kobbi Nissim. “On cutting a few vertices from a graph”. *Discrete Applied Mathematics*, 127(3), 643–649 (2003).
This is part of a paper titled “Approximating the minimum bisection size”, that appeared in *Proc. of 32nd STOC, 2000*, 530–536.
40. Uriel Feige and Yuri Rabinovich. “Deterministic Approximation of the Cover Time”. *Random Structures and Algorithms*, Volume 23, Number 1, 1–22, August 2003.
A preliminary version appeared in *Proc. of 4th Israel Symposium on the Theory of Computing and Systems, 1996*, 208–218.
41. Uriel Feige and Robert Krauthgamer. “The probable value of the Lovasz-Schrijver relaxations for maximum independent set”. *SIAM Journal on Computing*, 32(2), 345–370, 2003.
42. Uriel Feige. “Approximating Maximum Clique by Removing Subgraphs”. *SIAM Journal on Discrete Mathematics*, 18(2), 219–225, 2004.
43. Uriel Feige, Laszlo Lovasz, Prasad Tetali. “Approximating Min-sum Set Cover”. *Algorithmica*, 4(40), 219–234, 2004.
Preliminary version in *Approximation Algorithms for Combinatorial Optimization, proceedings of 5th International Workshop, Approx 2002*, LNCS 2462 Springer, 94–107, 2002.
44. Uriel Feige, Michael Langberg, Gideon Schechtman. “Graphs with tiny vector chromatic numbers and huge chromatic numbers”. *SIAM J. Comput.* 33(6): 1338–1368 (2004).
Preliminary version appeared in *Proceedings of 43rd FOCS, 2002*, 283–292.
45. Uriel Feige and Daniele Micciancio. “The inapproximability of lattice and coding problems with preprocessing”. *JCSS* 69(1): 45–67 (2004).
Preliminary version appeared in *Proc. of 17th Annual IEEE Conference on Computational Complexity*, 44–52, 2002.
46. Uriel Feige and Eran Ofek. “Spectral Techniques Applied to Sparse Random Graphs”. *Random Structures and Algorithms*, 27(2), 251–275, 2005.
47. Eden Chlamtac and Uriel Feige. “Improved Approximation of the Minimum Cover Time”. *Theoretical Computer Science*, 341(1-3): 22–38 (2005).

48. Dan Frumkin, Adam Wasserstrom, Shai Kaplan, Uriel Feige, Ehud Shapiro. "Genomic Variability within an Organism Exposes its Cell Lineage Tree". *PLoS Comput Biol*, 1(5):e50, 2005.
49. Uriel Feige and Daniel Reichman. "On the hardness of approximating Max-Satisfy". *Information Processing Letters*, 97(1), 31–35, 2006.
50. Uriel Feige. "On sums of independent random variables with unbounded variance, and estimating the average degree in a graph". *SICOMP* 35(4): 964–984 (2006).
Preliminary version in *Proceedings of 36th STOC*, 594–603, 2004.
51. Uriel Feige and Michael Langberg. "The RPR^2 rounding technique for semidefinite programs". *Journal of Algorithms* 60(1): 1–23 (2006).
Preliminary version in *Proc. of ICALP 2001*, Lecture Notes in Computer Science 2076, Springer 2001, 213–224.
52. Uriel Feige and James R. Lee. "An improved approximation ratio for the minimum linear arrangement problem." *Inf. Process. Lett.* 101(1): 26–29 (2007).
53. Uriel Feige and Eran Ofek. "Easily refutable subformulas of large random 3CNF formulas". *Theory of Computing*, Volume 3 (2007) Article 2, pp. 25–43.
<http://theoryofcomputing.org>.
Preliminary version in *proceedings of ICALP 2004*, 519–530.
54. Uriel Feige, Eran Ofek. "Finding a maximum independent set in a sparse random graph". *SIAM Journal on Discrete Mathematics*, Volume 22(2) 693–718 (2008).
Preliminary version in *Proceedings of Random 2005, Approximation, Randomization and Combinatorial Optimization*, LNCS 3624 Springer, 282–293, 2005.
55. Uriel Feige, MohammadTaghi Hajiaghayi and James Lee. "Improved approximation algorithms for minimum-weight vertex separators". *SIAM J. Comput.* 38(2): 629–657 (2008).
Preliminary version in *Proceedings of 37th STOC*, 2005, 563–572.
56. Erik Demaine, Uriel Feige, MohammadTaghi Hajiaghayi, Mohammad R. Salavatipour. "Combination can be hard: approximability of the unique coverage problem". *SIAM J. Comput.* 38(4): 1464–1483 (2008).
Preliminary version in *SODA 2006*.

57. Uriel Feige, Kunal Talwar. "Approximating the bandwidth of caterpillars". *Algorithmica* 55(1): 190–204 (2009).
Preliminary version in proceedings of Approx 2005, *Approximation, Randomization and Combinatorial Optimization*, LNCS 3624 Springer, 62–73, 2005.
58. Uriel Feige. "On maximizing welfare when utility functions are subadditive". *SIAM J. Comput.* 39 122 (2009).
Preliminary version in *Proc. of 38th STOC*, 2006, 41–50.
59. Uriel Feige, Shimon Kogan. "Balanced coloring of bipartite graphs". *Journal of Graph Theory* 64(4): 277–291 (2010).
60. Yossi Azar, Uriel Feige, Daniel Glasner. "A Preemptive Algorithm for Maximizing Disjoint Paths on Trees". *Algorithmica* 57(3): 517–537 (2010).
Preliminary version in *Proc of SWAT 2008*, 319–330. (Best paper award.)
61. Uriel Feige. "On optimal strategies for a hat game on graphs." *SIAM Journal on Discrete Mathematics*, 2010.
62. Uriel Feige, Jan Vondrak. "The Submodular Welfare Problem with Demand Queries". *Theory of Computing* 6(1): 247–290 (2010).
Preliminary version titled "Approximation algorithms for allocation problems: improving the factor of $1 - 1/e$ " appeared in *Proc. of 47th FOCS*, 2006, 667–676.
63. Chandan Dubey, Uriel Feige, Walter Unger. "Hardness results for approximating the bandwidth". *J. Comput. Syst. Sci.* 77(1): 62–90 (2011).
64. Uriel Feige, Vahab S. Mirrokni, Jan Vondrak. "Maximizing Non-monotone Submodular Functions". *SIAM J. Comput.* 40(4): 1133–1153 (2011).
Preliminary version in *Proc of 48th FOCS*, 2007, 461–471.
65. Uriel Feige, Abraham D. Flaxman, Dan Vilenchik. "On the Diameter of the Set of Satisfying Assignments in Random Satisfiable k-CNF Formulas". *SIAM J. Discrete Math.* 25(2): 736–749 (2011).
66. Yossi Azar, Uriel Feige, Iftah Gamzu, Thomas Moscibroda, Prasad Raghavendra. "Buffer Management for Colored Packets with Deadlines". *Theory Comput. Syst.* 49(4): 738–756 (2011).
Preliminary version in *SPAA 2009*: 319–327.

Submitted to journals.

67. Uriel Feige, Elchanan Mossel, Dan Vilenchik. "Complete Convergence of Message Passing Algorithms for some Satisfiability Problems". In *Approximation, Randomization and Combinatorial Optimization, proceedings of 10th International Workshop on Randomization and Computation, RANDOM 2006*, 339–350, Springer LNCS 4110.

Proceedings of refereed conferences

68. Uriel Feige, Adi Shamir and Moshe Tennenholtz. "The Noisy Oracle Problem". *Advances in Cryptology – CRYPTO '88 Proceedings, Springer-Verlag 403*, pp. 284-296.
69. Uriel Feige and Adi Shamir. "Zero Knowledge Proofs of Knowledge in Two Rounds" *Advances in Cryptology – CRYPTO '89 Proceedings, Lecture Notes in Computer Science, Springer-Verlag 435*, pp. 526-544.
70. Uriel Feige and Adi Shamir. "Witness Indistinguishable and Witness Hiding Protocols". *Proceedings of 22nd STOC, 1990*, pp. 416-426.
71. Uriel Feige. "On the Success Probability of the Two Provers in One-Round Proof Systems". *Proc. of the 6th annual conference on Structures in Complexity Theory, 1991, IEEE Computer Society Press*, pp. 116-123.
72. Uriel Feige and Laszlo Lovasz. "Two-Prover One-Round Proof Systems: Their Power and Their Problems". *Proc. of 24th STOC, 1992*, pp. 733-744.
73. Cynthia Dwork, Uriel Feige, Joe Kilian, Moni Naor, and Shmuel Safra. "Low Communication 2-Prover Zero-Knowledge Proofs for NP". *Advances in Cryptology – CRYPTO '92 Proceedings, Lecture Notes in Computer Science, Springer-Verlag pp. 217-229*.
74. Uriel Feige and Prabhakar Raghavan. "Exact Analysis of Hot Potato Routing". *Proc. of 33rd FOCS, 1992*, pp. 553-562.
75. Yonatan Aumann and Uriel Feige. "One Message Proof Systems with Known Space Verifiers". *Advances in Cryptology – CRYPTO '93 Proceedings, Lecture Notes in Computer Science, Springer-Verlag 773*, pp. 85-99.
76. Uriel Feige, Joe Kilian, and Moni Naor. "A Minimal Model for Secure Computation". *Proc. of 26th STOC, 1994*, 554-563.
77. Mihir Bellare, Uriel Feige, and Joe Kilian. "On the Role of Shared Randomness in Two Prover Proof Systems". *Proc. of 3rd Israel Symposium on the Theory of Computing and Systems, 1995*, 199–208.

78. Uriel Feige. “Observations on Hot Potato Routing”. *Proc. of 3rd Israel Symposium on the Theory of Computing and Systems, 1995*, 30–39.
79. Uriel Feige and Michel Goemans. “Approximating the Value of Two Prover Proof Systems, With Applications to MAX 2SAT and MAX DICUT”. *Proc. of 3rd Israel Symposium on the Theory of Computing and Systems, 1995*, 182–189.
80. Uriel Feige and Joe Kilian. “Impossibility Results for Recycling Random Bits in Two Prover Proof Systems”. *Proc. of 27th STOC, 1995*, 457–468.
81. Ran Canetti, Uriel Feige, Oded Goldreich, and Moni Naor. “Adaptively Secure Multiparty Computation”. *Proc. of 28th STOC, 1996*, 639–648.
82. Uriel Feige and Joe Kilian. “Making games short”. *Proc. of 29th STOC, 1997*, 506–516.
83. Uriel Feige and Robert Krauthgamer. “Stereoscopic families of permutations, and their applications”. *Proc. of 5th Israel Symposium on the Theory of Computing and Systems, 1997*, 85–95.
84. Uriel Feige. “Nonmonotonic phenomena in packet routing.” *Proc. of 31st STOC, 1999*, 583–591.
85. Uriel Feige. “Noncryptographic selection protocols”. *Proc. of 40th FOCS, 1999*, 142–152.
86. Andrei Broder and Uriel Feige. “Min-Wise Versus Linear Independence”. *Proc. of 11th Annual ACM-SIAM Symposium on Discrete Algorithms*, 147–154, 2000.
87. Uriel Feige, Michael Langberg, Kobbi Nissim. “On the hardness of approximating NP witnesses”. *Approximation Algorithms for Combinatorial Optimization. Proceedings of Third International Workshop Approx 2000*. Lecture Notes in Computer Science 1913, Springer 2000, 120–131.
88. Uriel Feige. “Relations between average case complexity and approximation complexity.” *Proc. of 34th STOC, 2002*, 534–543.
One page abstract appears also in *Proc. of 17th Annual IEEE Conference on Computational Complexity*, page 5, 2002.
89. Uriel Feige, Eran Ofek, Ehud Wieder. “Approximating maximum edge coloring in multigraphs”. In *Approximation Algorithms for Combinatorial Optimization, proceedings of 5th International Workshop, Approx 2002*, LNCS 2462 Springer, 108–121, 2002.

90. Uriel Feige and Daniel Reichman. "On systems of linear equations with two variables per equation". In *proceedings of APPROX 2004 (LNCS 3122)*, 117–127, Springer, 2004.
91. Uriel Feige, Abraham Flaxman, Jason D. Hartline, Robert Kleinberg. "On the Competitive Ratio of the Random Sampling Auction". In *Proc. of WINE 2005*, 878–886.
92. Uriel Feige, Mohammad Mahdian. "Finding small balanced separators". *Proc. of 38th STOC*, 2006, 375–384.
93. Uriel Feige, Jeong Han Kim, Eran Ofek. "Witnesses for non-satisfiability of dense 3CNF formulas". *Proc. of 47th FOCS*, 2006, 497–506.
94. Uriel Feige, Guy Kindler, and Ryan O’Donnell. "Understanding Parallel Repetition Requires Understanding Foams". *Proc. of the 22nd IEEE Conference on Computational Complexity*, 2007.
95. Uriel Feige, Kamal Jain, Mohammad Mahdian and Vahab Mirrokni. "Robust Combinatorial Optimization with Exponential Scenarios." *Proc. of IPCO 2007*.
96. Uriel Feige and Mohit Singh. "Improved approximation ratios for traveling salesperson tours and paths in directed graphs." *Proc. of Approx 2007*.
97. Uriel Feige. "Refuting smoothed 3CNF formulas." *Proc. of 48th FOCS*, 2007, 407–417.
98. Uriel Feige. "On Allocations that Maximize Fairness." *Proc of SODA 2008*, 287–293.
99. Uriel Feige, Nicole Immorlica, Vahab Mirrokni and Hamid Nazerzadeh. "A combinatorial allocation mechanism with penalties for banner advertising." *Proc of WWW 2008*, 169–178.
100. Reid Andersen, Christian Borgs, Jennifer Chayes, Uriel Feige, Abraham Flaxman, Adam Kalai, Vahab Mirrokni and Moshe Tennenholtz. "Trust-based recommendation systems: an axiomatic approach." *Proc of WWW 2008*, 199–208.
101. Arash Asadpour, Uriel Feige and Amin Saberi. "Santa Claus meets hypergraph matchings". APPROX-RANDOM 2008: 10–20.
102. Uriel Feige and Mohit Singh. "Edge Coloring and Decompositions of Weighted Graphs". ESA 2008: 405–416.
103. Noga Alon, Uriel Feige: On the power of two, three and four probes. SODA 2009: 346-354

104. Amin Coja-Oghlan, Uriel Feige, Alan M. Frieze, Michael Krivelevich, Dan Vilenchik. “On smoothed k-CNF formulas and the Walksat algorithm”. *SODA* 2009: 451–460.
105. Uriel Feige, Nicole Immorlica, Vahab S. Mirrokni, Hamid Nazerzadeh. “PASS Approximation”. *APPROX-RANDOM* 2009: 111–124.
106. Aditya Bhaskara, Moses Charikar, Eden Chlamtac, Uriel Feige, Aravindan Vijayaraghavan. “Detecting high log-densities: an $O(n^{1/4})$ approximation for densest k-subgraph”. *STOC* 2010: 201–210.
107. Uriel Feige and Dorit Ron. “Finding hidden cliques in linear time”. Proceedings of AOFA 2010.
108. Uriel Feige, Moshe Tennenholtz. “Responsive Lotteries”. *SAGT* 2010: 150–161.
109. Uriel Feige, Inbal Talgam-Cohen. “A Direct Reduction from k-Player to 2-Player Approximate Nash Equilibrium”. *SAGT* 2010: 138–149.
110. Uriel Feige, Moshe Tennenholtz. “Mechanism design with uncertain inputs (to err is human, to forgive divine)”. *STOC* 2011: 549–558.
111. Uriel Feige, Daniel Reichman. “Recoverable Values for Independent Sets”. *ICALP* (1) 2011: 486–497.
112. Nikhil Devanur, Uriel Feige. “An $O(n \log n)$ Algorithm for a Load Balancing Problem on Paths”. *WADS* 2011: 326–337.
113. Yehuda Afek, Yakov Babichenko, Uriel Feige, Eli Gafni, Nati Linial, Benny Sudakov. “Oblivious Collaboration”. *DISC* 2011: 489–504.
114. Nikhil Bansal, Uriel Feige, Robert Krauthgamer, Konstantin Makarychev, Viswanath Nagarajan, Joseph (Seffi) Naor, Roy Schwartz. “Min-Max Graph Partitioning and Small Set Expansion”. To appear in *FOCS* 2011.

Invited talks in conferences.

115. Uriel Feige. “Randomized rounding of semidefinite programs – variations on the MAX CUT example”. *Randomization, Approximation, and Combinatorial Optimization, Proceedings of Random-Approx’99*, Lecture Notes in Computer Science 1671, Springer 1999, 189–196.
116. Uriel Feige. “Coping with NP-hardness of the graph bandwidth problem”. *Algorithm Theory – SWAT 2000. Proceedings of 7th Scandinavian Workshop on Algorithm Theory*. Lecture Notes in Computer Science 1851, Springer 2000, 10–19.

117. Uriel Feige “Approximation Thresholds for Combinatorial Optimization Problems”. In *Proceedings of the International Congress of Mathematicians, Beijing 2002, Vol. III, 649–658*, Higher Education Press.
- Abstract appears in *International Congress of Mathematicians, Beijing 2002, Abstracts of Planary and Invited Lectures*, 139–140, Higher Education Press.
118. Uriel Feige. “Small linear dependencies for binary vectors of low weight”. In *Building Bridges Between Mathematics and Computer Science, Bolyai Society Mathematical Studies, 19, Springer, Editors: Martin Grottschel and Gyula Katona*, pages 283–307, 2008.
- Part of an invited talk given in a conference celebrating the 60th birthday of Laci Lovasz.
119. Uriel Feige. “On Estimation Algorithms vs Approximation Algorithms.” FSTTCS 2008: 357–363.

Unrefereed technical reports.

120. Uriel Feige and Adi Shamir. “On Expected Polynomial Time Simulation of Zero Knowledge Protocols”. *Proc. of DIMACS Workshop on Distributed Computing and Cryptography, Princeton, NJ, October 1989, J. Feigenbaum and M. Merritt (eds.) AMS and ACM (pubs.)*.
121. Uriel Feige and Shafi Goldwasser (editors). “The Weizmann Workshop on Probabilistic Proof Systems”. *Technical report CS94-17 of the Weizmann Institute, 1994*.
122. Uriel Feige. “Error reduction by parallel repetition – the state of the art”. *Technical report CS95-32 of the Weizmann Institute, 1995*. (Partially overlaps 37.)
123. Uriel Feige and Kobbi Nissim. “On the use of interactive proofs for formal program verification”. *Technical report CS97-06 of the Weizmann Institute, 1997*.
124. Uriel Feige and Michael Seltser. “On the densest k -subgraph problem”. *Technical report CS97-16 of the Weizmann Institute, 1997*.
125. Uriel Feige. “Vertex cover is hardest to approximate on regular graphs”. *Technical report MCS03-15 of the Weizmann Institute, 2003*.
126. Uriel Feige. “You can leave your hat on (if you guess its color)”. *Technical report MCS04-03 of the Weizmann Institute, 2004*.

127. Uriel Feige and Shimon Kogan. “Hardness of Approximation of the Balanced Complete Bipartite Subgraph Problem”. *Technical report MCS04-04 of the Weizmann Institute, 2004.*
128. Uriel Feige and Dan Vilenchik. “A local search algorithm for 3SAT”. *Technical report MCS04-07 of the Weizmann Institute, 2004.*
129. Uriel Feige and Eran Ofek. “Random 3CNF formulas elude the Lovasz theta function.” *Technical Report MCS06-01, Computer Science and Applied Mathematics, Weizmann Institute of Science, 2006.* In arxiv.org. 2006.
130. Yossi Azar, Uriel Feige, Suman Nath. “On the work function algorithm for two state task systems.” *Technical Report MSR-TR-2007-20, Microsoft Corporation, February 2007.*
131. Reid Andersen and Uriel Feige. “Interchanging distance and capacity in probabilistic mappings.” CoRR abs/0907.3631: (2009).
132. Uriel Feige and Ofer Zeitouni. “Deterministic approximation for the cover time of trees”. In arxiv.org. 2009.
133. Uriel Feige. “Faster FAST (Feedback Arc Set in Tournaments)”. In arxiv.org. 2009.
134. Uriel Feige, Shlomo Jozeph. “Oblivious Algorithms for the Maximum Directed Cut Problem”. CoRR abs/1010.0406: (2010).