

Noam Nisan

School of Computer Science and Engineering
Hebrew University of Jerusalem, Israel
email: noam@cs.huji.ac.il

Education

- 1988 – Ph.D. in Computer Science, University of California, Berkeley. Advisor: Prof. Richard Karp.
- 1984 – B.Sc. summa cum laude in Mathematics and in Computer Science, Hebrew University of Jerusalem.

Employment

- 1990-current: Full Professor (since 1997), Associate Professor, Senior Lecturer, and Lecturer, School of Computer Science and Engineering, Hebrew University of Jerusalem, Israel.
- 2012-2015: Principal Researcher, Microsoft Research.
- 2007-2011: Senior Research Scientist, Google.
- 1998-2002: Founder, CTO, and board member, SeeRun Inc. eBusiness management software.
- 1997-99: Director of Computer Science Program, Interdisciplinary Center, Herzliya.
- 1989: Postdoctoral researcher, MIT Laboratory of Computer Science.
- 1985-88: Research assistant and teaching assistant, University of California, Berkeley.
- 1984-85: Software Engineer, Clarity systems.

Honors

- EATCS prize (2018).
- Rotschild Prize (2018).

- Knuth award (2015).
- Godel Award (2012) for “Algorithmic Mechanism Design” (joint with Elias Koutsoupias, Christos H. Papadimitriou, Tim Roughgarden, va Tardos, and Amir Ronen).
- Society for the Advancement of Economic Theory Fellow (2011).
- IJCAI-JAIR Best (5-year) Paper Prize (2011) for “Computationally Feasible VCG Mechanisms” by Nisan and Ronen.
- Bruno Award (2004).
- Usenix Security Conference Best student paper award (1994) for “Fair-play - A Secure Two-Party Computation System” by Malkhi, Nisan, Pinkas, and Sella .
- Invited talk to International Congress of Mathematics, Zurich (1994).
- Bergman Memorial research grant (1993).
- “Amoota Lehinuch Technology” Prize (1990).
- Alon Fellowship (1990).
- ACM distinguished Dissertation Award (1990) for my thesis “Using hard functions to create pseudorandom generators”.

Grants

- Wolfeson grant (Oct. 1990-93), administered by the Israeli academy of sciences, with A. Wigderson. Randomness in Computation.
- USA-Israel BSF (Oct. 1990-93), with J. Kahn, J. Komlos and N. Linial. Combinatorial and analytic aspects of boolean functions and their computational complexity.
- Wolfeson grant (Oct. 1993-96), administered by the Israeli academy of sciences, with A. Wigderson. Randomness in Computation.
- USA-Israel BSF (Oct. 1993-97), with R. Impagliazzo. Communication complexity and circuit lower bounds.

- Ministry of Science (1995-96), with I. Newman and M. Safra. University education and research in the information super-highway era.
- Israel Science Foundation (Oct. 1996-1999), with M. Ben-Or and A. Wigderson. Algebraic and Combinatorial Computation: Methods, Models, and Connections.
- Ministry of Science (Dec. 1997-2000), with I. Ben-Shaul, I. Cidon, H. Krawczyk, and B. Pat-Shamir. Content Distribution and Management in the Information Highway.
- Ministry of Science (Dec. 1999-2000), with D. Lehmann. Servers and Protocols for Complex Internet Auctions.
- Israeli Academy of Sciences (Oct. 1999-2003). Computational and Electronic Markets.
- Israeli Academy of Sciences (Oct. 2003-2007). Electronic Markets and Auctions.
- USA-Israel Binational Science Foundation (Oct. 2003-2006), with J. Feigenbaum. Decentralized Resource Allocation: Incentives and Computation.
- Israeli Academy of Sciences (Oct. 2007-2010). The Border of Economics and Computation.
- Israeli Academy of Sciences (Oct. 2010-2014), with L. Blumrosen. Electronic Auctions and Markets: more practical theoretical models.
- Google Inc. (Dec. 2010-2013), co-lead of inter-university grant with 20 other PIs. Electronic Markets and Auctions.
- Israeli Academy of Science (Oct. 2014 - Oct. 2018). Complexity of Convergence to Equilibrium in Markets and Games.
- USA-Israel Binational Science Foundation (Oct 2015-2019), with Y. Singer. Networked Markets.
- European Research Council (ERC) grant (2017-2022). Complexity and Simplicity in Economic Mechanisms.

Service

- Program committee chair, ACM conference on Electronic Commerce, 2003.
- Blogger: Algorithmic Game Theory Blog (“Turing’s Invisible Hand”), 2009-current.
- Editor: *Combinatorica*, 1992-current. *Math of Operations Research (MOR)*, 2005-2015. *Games and Economic Behavior (GEB)* 2006-current. *ACM Transactions on Economics and Computation (TEAC)*, 2011-2017.
- Council member of the Game Theory Society, 2015-current.
- Program committee member (partial): 1991 IEEE Foundations of Computer Science; 1992 IEEE Structure in Complexity Theory; 1993 Israel Symposium on Theory of Computing and Systems; 1994 IEEE Structure in Complexity Theory; 1996 ACM Symposium on Theory of Computing; 1997 IEEE Foundations of Computer Science; 1998 International Symposium on Distributed Computation; 1999 ACM conference on Electronic Commerce; 2000 International Conference on Distributed Computing Systems; 2001 IEEE Foundations of Computer Science; 2005 Workshop on Internet and Network Economics; 2006 ACM conference on electronic commerce; 2008 World Wide Web conference (monitization track); 2010 Foundations of Computer Science; 2010 Workshop on Computational Social Choice; 2013 Symposium on Algorithmic Game Theory; 2014 Innovations in Theoretical Computer Science; 2015 ACM conference on Economics and Computation; 2017 Innovations in Theoretical Computer Science; 2017 ACM conference on Economics and Computation.
- Steering committee member, IEEE Structure in Complexity Theory, 1993-1996.
- Chair of CS Studies, Hebrew University, 1994-1996 and 2003-2004.
- Chair of “‘Internet and Society’” undergraduate major 2017-current.
- Member: Israel national committee on computation and Information, 1999-2001. Israel high-school CS curriculum committee, 2005-2010.

- Invited talks (selected recent): Games 2008; ICALP 2009; SAGT 2009; EURO 2009; ESA 2009; SODA 2010; COLT 2010, GTHB 2013, ELC Tokyo Complexity Workshop 2013, WINE 2014, EC Workshop on Economics of Cloud Computing 2016. SING 2017.
- Co-organiser (partial): Dagstuhl seminar on Complexity of Boolean Functions, 1997; DIMACS workshop on computational aspects of game theory and mechanism design, 2001; 1st to 5th Israeli Computational Game Theory Seminar, 2006-2010; IAS Semester on Algorithmic Game Theory, 2011; Innovations in Algorithmic Game Theory Workshop, 2011. Dagstuhl seminar on Electronic Markets and Auctions, 2013. Simons semester on Economics and Computation, 2015. Young researcher workshop on Economics and Computation, 2017.

Thesis supervision

- Michal Parnas, Ph.D., “Robust Algorithms and Data Structures for Information Retrieval”, 1994 (joint advisor with D. Dolev).
- Ilan Kremer, M.Sc., “Quantum Communication Complexity”, 1995.
- Amnon Ta-Shma, M.Sc. and Ph.D., “Extracting Randomness”, 1996.
- Dorit Aharonov, M.Sc., Quantum Computation, 1997.
- Shmuel London, M.Sc., “POPCORN – a paradigm for global computing”, 1998.
- Ori Regev, M.Sc., “The POPCORN market – an online market for computational resources”, 1998
- Noam Camiel, M.Sc., “The Shared Object POPCORN System”, 1999.
- Lior Levi, M.Sc., “The MAJIC system: Online market for distributed object services”, 2000.
- Amir Ronen, Ph.D., “Solving optimization problems among selfish agents”, 2000.
- Edo Zurel, M.Sc., “A practical approach to Combinatorial Auctions”, 2002.
- Ron Lavi, Ph.D., “Auction Theory in Computational Settings”, 2004.

- Ahuva Mualem, Ph.D., “Incentives and Computation: Combinatorial Auctions and Networks”, 2005.
- Moshe Babaiof, M.Sc. and Ph.D., “Strategic Aspects of Computational Markets”, 2005.
- Liad Blumrosen, M.Sc. and Ph.D., “Information and Communication in Mechanism Design”, 2006.
- Assaf Ben-David, M.Sc., “A System for Secure Multiparty Computation”, 2008.
- Michael Schapira, M.Sc and Ph.D., “The Economics of Internet Protocols”, 2008.
- Shahar Dobzinski, M.Sc, and Ph.D., “The Power of Approximations in Mechanism Design”, 2009.
- Avital Gutman, M.Sc., “Fair Allocation Without Trade”, 2012.
- Avihsay Maya, M.Sc., “Incentive Compatible Two Player Cake Cutting”, 2012.
- Ilan Nehama, Ph.D., “Computational issues in Judgement Aggregation”, 2016.
- Gali Noti, M.Sc. (joint advisor with Ilan Yaniv), and Ph.D., in progress.
- Yannai Gonczarowski, Ph.D., in progress (joint with Sergiu Hart).
- Ron Kupfer, Ph.D., in progress.

Personal data

Born 20.6.61, Rehovot, Israel. Married + 3 children. Israeli citizenship.

Publication List

Books

1. “Algorithmic Game Theory”, N. Nisan, T. Roughgarden, E. Tardos, and V. Vazirani, editors. Published by Cambridge University Press, 2007.
2. “Elements of Computing Systems”, N. Nisan and S. Schoken. Published by MIT press, 2005. (Chinese translation 2006, Polish translation 2007.)
3. “Communication Complexity”, E. Kushilevitz and N. Nisan. Published by Cambridge University Press, 1997.
4. “Using Hard Problems to Create Pseudorandom Generators”, N. Nisan. Ph.D. thesis published by MIT press, 1991.

Papers

1. “Economic Efficiency Requires Interaction”, S. Dobzinski, N. Nisan, and S. Oren. Games and Economic Behavior, in press. (Preliminary version in STOC 2014.)
2. “The Query Complexity of Correlated Equilibria”, S. Hart and N. Nisan. Games and Economic Behavior, in press. (Preliminary version appeared in SAGT 2013.)
3. “Optimal Deterministic Mechanisms for an Additive Buyer”, M. Babaioff, N. Nisan, and A. Rubinstein. Preprint 2018.
4. “Universal Growth in Production Economies”, S Brnzei, R Mehta, and N Nisan. Arxiv preprint 2018.
5. “Communication Complexity of Cake Cutting”, S. Branzei and N. Nisan. Arxiv preprint 2017.
6. “The Query Complexity of Cake Cutting”, S. Branzei and N. Nisan. Arxiv preprint 2017.

7. “Competitive Equilibria with Indivisible Goods and Generic Budgets”, M. Babaioff, N. Nisan, and I. Talgam-Cohen. Match Up 2017.
8. “Selling Complementary Goods”, M. Babaioff, L. Blumroen, and N. Nisan, ICALP 2017.
9. “A Quantal Regret Method for Structural Econometrics in Repeated Games”, N. Nisan and G. Noti. EC 2017.
10. “The Menu-Size Complexity of Revenue Approximation”, M. Babaioff, Y. A. Gonczarowski, and N. Nisan. STOC 2017.
11. “Efficient Empirical Revenue Maximization in Single-Parameter Auction Environments”, Y. A. Gonczarowski and N. Nisan. STOC 2017.
12. “ERA: A Framework for Economic Resource Allocation for the Cloud”, M. Babaioff, Y. Mansour, N. Nisan, G. Noti, C. Curino, N. Ganapathy, I. Menache, O. Reingold, M. Tennenholtz and E. Timnat. WWW 2017 (Industrial track).
13. “An Experimental Evaluation of Regret-Based Econometrics”, N. Nisan and G. Noti. WWW 2017. (Also preliminary version in EC Workshop on Algorithmic Game Theory and Data Science 2016.)
14. “Approximate Revenue Maximization with Multiple Items”, S. Hart and N. Nisan. Journal of Economic Theory 172C, pp. 313-347, 2017. (Preliminary version in ACM EC 2012.)
15. “Correlated and Coarse equilibria of Single-item auctions”, M. Feldman, B. Lucier, and N. Nisan. WINE 2016.
16. “Networks of Complements”, M. Babaioff, L. Blumrosen, and N. Nisan. ICALP 2016.
17. “Smooth Boolean functions are easy: efficient algorithms for low-sensitivity functions”, P. Gopalan, N. Nisan, R. A. Servedio, K. Talwar, and A. Wigderson. ITCS 2016.
18. “The AND-OR Game”, Avinatan Hassidim, Haim Kaplan, Y. Mansour, and N. Nisan, ACM Transactions on Economics and Computation 5(1), 2016. (Preliminary version in WINE 2012.)
19. “Welfare Maximization with Limited Interaction”, N. Alon, N. Nisan, R. Raz and O. Weinstein. FOCS 2015.

20. “Public Projects, Boolean Functions, and the Borders of Border’s Theorem”, P. Gopalan, N. Nisan, and T. Roughgarden. EC 2015.
21. “A Stable Stable Marriage Requires Communication”, Y. Gonczarowski, N. Nisan, R. Ostrovsky and W. Rosenbaum. SODA 2015.
22. “Online Ascending Auctions for Gradually Expiring Goods”, R. Lavi and N. Nisan. Journal of Economic Theory 156, 45-76, 2015. (Preliminary version appeared in SODA 2005.)
23. “Multi-unit auctions: beyond Roberts”, S Dobzinski, N Nisan. Journal of Economic Theory 156, 14-44, 2015. (Preliminary version in ACM EC 2011.)
24. “Sampling and Representation Complexity of Revenue Maximization”, S. Dughmi, L. Han, and N. Nisan. WINE 2014.
25. “On the Efficiency of the Walrasian Mechanism”, M. Babaioff, B. Lucier, N. Nisan, and R. Paes Leme. ACM EC, 2014.
26. “Economic Efficiency Requires Interaction”, S. Dobzinski, N. Nisan, and S. Oren. STOC, 2014.
27. “Algorithmic Mechanism Design (through the lens of multi-unit auctions)”, N. Nisan. Handbook of Game Theory IV, 2014.
28. “An Experimental Evaluation of Bidders’ Behavior in Ad Auctions”, G. Noti, N. Nisan, and I. Yaniv. WWW 2014.
29. “Price Competition in Online Combinatorial Markets”, M. Babaioff, N. Nisan, and R. Paes Leme. WWW 2014.
30. “The Menu-Size Complexity of Auctions”, S. Hart and N. Nisan, ACM EC 2013.
31. “Bertrand Competition”, M. Babaioff, B. Lucier, and N. Nisan, ACM EC 2013.
32. “Incentive Compatible Two Player Cake Cutting”, A. Maya and N. Nisan, WINE 2012.
33. “Sketching Valuation Functions”, A. Badanidiyuru, S. Dobzinski, H. Fu, R. Kleinberg, N. Nisan and T. Roughgarden. SODA 2012.

34. “Fair Allocation Without Trade”, A. Gutman and N. Nisan. AAMAS 2012.
35. “Multi-unit Auctions with Budget Limits”, S. Dobzinski, R. Lavi, and N. Nisan. Games and Economic Behavior 74(2): 486-503, 2012. (Preliminary version in FOCS 2008.)
36. “Truthful randomized mechanisms for combinatorial auctions”, S. Dobzinski, N. Nisan, and M. Schapira, J. Comput. Syst. Sci. 78(1): 15-25, 2012. (Preliminary version in STOC 2006.)
37. “Combinatorial Agency”, M. Babaioff, M. Feldman, N. Nisan, and E. Winter. J. Economic Theory 147(3): 999-1034, 2012. (Preliminary version by the first three authors in ACM EC 2006.)
38. “Best Response Auctions”, N. Nisan, M. Schapira, G. Valiant, and A. Zohar. ACM EC 2011.
39. “Non-Price Equilibria in Markets of Discrete Goods”, A. Hassidim, H. Kaplan, Y. Mansour, and N. Nisan. ACM EC 2011.
40. “Best Response Mechanisms”, N. Nisan, M. Schapira, G. Valiant, and A. Zohar. ICS 2011.
41. “A Quantitative Version of the Gibbard-Satterthwaite Theorem for Three Alternatives”, E. Friedgut, G. Kalai, N. Keller, and N. Nisan. SIAM J. Comput. 40(3): 934-952, 2011. (Preliminary version titled “Elections Can be Manipulated Often” by E. Friedgut, G. Kalai, and N. Nisan in FOCS 2008.)
42. “Limitations of VCG-based mechanisms”, S. Dobzinski and N. Nisan. Combinatorica 31(4): 379-396, 2011. (Preliminary version in STOC 2007.)
43. “Approximation Algorithms for Combinatorial Auctions with Complement-Free Bidders”, S. Dobzinski, N. Nisan, and M. Schapira. Mathematics of Operations Research 35: 1 - 13, February 2010. (Preliminary version in STOC 2005.)
44. “Mechanisms for Multi-Unit Auctions”, S. Dobzinski and N. Nisan. JAIR Volume 37, pages 85-98, 2010. (Preliminary version in ACM EC 2007.)

45. “Informational Limitations of Ascending Combinatorial Auctions”, L. Blumrosen and N. Nisan. *Journal of Economic Theory (JET)*, 145(3):1203-1223, May 2010. (Preliminary version is part of “The Computational Power of Iterative Auctions” in ACM EC 2005.)
46. “Mixed Strategies in Combinatorial Agency”, M. Babaioff, M. Feldman, and N. Nisan. *J. Artif. Intell. Res. (JAIR)* 38: 339-369, 2010. (Preliminary version in WINE 2006.)
47. “Google’s Auction for TV Ads”, Noam Nisan, Jason Bayer, Deepak Chandra, Tal Franji, Robert Gardner, Yossi Matias, Neil Rhodes, Misha Seltzer, Danny Tom, Hal R. Varian, and Dan Zigmond. Invited paper in ICALP 2009. (Also invited talks in SAGT 2009, EURO 2009, SODA 2010, and COLT 2010.)
48. “Free-Riding and Free-Labor in Combinatorial Agency”, Moshe Babaioff, Michal Feldman, and Noam Nisan. SAGT 2009.
49. “A Modular Approach to Roberts’ Theorem”, Shahar Dobzinski, and Noam Nisan. SAGT 2009.
50. “A synthesis course in hardware architecture, compilers, and software engineering”, Shimon Schocken, Noam Nisan, and Michal Armoni. SIGCSE 2009.
51. “Mechanisms for a spatially distributed market”, Moshe Babaioff, Noam Nisan, and Elan Pavlov. *Games and Economic Behavior*, 66 (2), p.660-684, 2009. (Preliminary version appeared in ACM EC 2004.)
52. “Two simplified proofs for Roberts theorem”, Ron Lavi, Ahuva Mu’alem, and Noam Nisan. *Social Choice and Welfare* 32 (3), p. 407-423, 2009.
53. “On the Computational Power of Demand Queries”, Liad Blumrosen and Noam Nisan: *SIAM J. Comput.* 39(4): 1372-1391, 2009. (Preliminary version is part of “The Computational Power of Iterative Auctions” in ACM EC 2005.)
54. “FairplayMP: a system for secure multi-party computation”, Assaf Ben-David, Noam Nisan, and Benny Pinkas. ACM Conference on Computer and Communications Security 2008.
55. “Asynchronous Best-Reply Dynamics”, Noam Nisan, Michael Schapira, and Aviv Zohar: . WINE 2008.

56. “Theory research at Google”, Gagan Aggarwal, Nir Ailon, Florin Constantin, Eyal Even-Dar, Jon Feldman, Gereon Frahling, Monika Rauch Henzinger, S. Muthukrishnan, Noam Nisan, Martin Pl, Mark Sandler, and Anastasios Sidiropoulos. SIGACT News 39(2): 10-28 (2008)
57. “Compact name-independent routing with minimum stretch”, Ittai Abraham, Cyril Gavoille, Dahlia Malkhi, Noam Nisan, and Mikkel Thorup. ACM Transactions on Algorithms 4(3), 2008. (Preliminary version appeared in SPAA 2004.)
58. “Truthful approximation mechanisms for restricted combinatorial auctions”, Ahuva Mu’alem and Noam Nisan. Games and Economic Behavior, 64 (2), p.612-631, 2008. (Preliminary version appeared in AAAI 2002.)
59. “Auctions with severely bounded communication”, L. Blumrosen, N. Nisan, and I. Segal. JAIR 28, 2007. (Preliminary versions appeared in FOCS 2002 and ESA 2003.)
60. “Computationally Feasible VCG mechanisms”, N. Nisan and A. Ronen. JAIR 28, 2007. Winner of IJCAI-JAIR 2011 Best 5-year Paper Prize. (Preliminary version appeared in ACM EC 2000.)
61. “Combinatorial Auctions”, L. Blumrosen and N. Nisan. Chapter in “Algorithmic Game Theory” N. Nisan, T. Roughgarden, E. Tardos, and V. Vazirani (eds.), Cambridge University Press, 2007.
62. “Introduction to Mechanism Design (for Computer Scientist)”, N. Nisan. Chapter in “Algorithmic Game Theory” N. Nisan, T. Roughgarden, E. Tardos, and V. Vazirani (eds.), Cambridge University Press, 2007.
63. “A Note on the Computational Hardness of Evolutionary Stable Strategies”, N. Nisan. ECCC technical report, 2006.
64. “Combinatorial Auctions with Decreasing Marginal Utilities”, B. Lehmann, D. Lehmann, and N. Nisan. Games and Economic Behavior, 55:2, Pages 270-296, 2006 (Preliminary version appeared in ACM EC 2001.)
65. “Weak Monotonicity characterizes deterministic dominant strategy implementation”, S. Bikhchandani, S. Chatterji, R. Lavi, A. Mu’alem, N. Nisan, and A. Sen. Econometrica 74:4, pages 1109 – 1132, 2006.

66. "The Communication Complexity of Efficient Allocation Problems and Supporting Prices", N. Nisan and I. Segal. *Journal of Economic Theory*, 129:1, Pages 192-224, 2006.
67. "Bidding Languages for Combinatorial Auctions, N. Nisan. Chapter in "Combinatorial Auctions" P. Cramton, Y. Shoham and R. Steinberg (eds.), 2006.
68. "Exponential Communication Efficiency of Demand Queries", N. Nisan and I. Segal. TARK 2005.
69. "Fairplay - Secure Two-Party Computation System", D. Malkhi, N. Nisan, B. Pinkas, and Y. Sella. *Usenix Security Symposium*, 2004. Best student paper.
70. "Concurrent Auctions Across the Supply Chain", M. Babaioff and N. Nisan, *JAIR* (21), pp. 595-629, 2004. (Preliminary version appeared in *ACM EC* 2001.)
71. "Competitive Analysis of Online Auctions", R. Lavi and N. Nisan. *TCS* 310 (1-3), pp. 159-180, 2004. (Preliminary version appeared in *ACM EC* 2000.)
72. "Towards a Characterization of Truthful Combinatorial Auctions", R. Lavi, A. Mualem, and N. Nisan. *FOCS* 2003.
73. "Incentive Compatible Multi-unit Combinatorial Auctions", Y. Bartal, R. Gonen, and N. Nisan. TARK 2003.
74. "The Communication Complexity of Approximate Set Packing and Covering", N. Nisan. *ICALP* 2002.
75. Neighborhood Preserving Hashing and Approximate Queries, D.Dolev, Y.Harari, N.Linial, N.Nisan, M.Parnas. *SIAM Journal on Discrete Mathematics*, Volume 15, Number 1, pp. 73-85, 2002. (Preliminary version appeared in *SODA* 1994.)
76. "Online Markets for Distributed Object Services: the MAJIC system", L. Levi, L. Blumrosen, and N. Nisan. *USITS* 2001.
77. "An Efficient Approximate Allocation Algorithm for Combinatorial Auctions", E. Zurel and N. Nisan. *ACM EC* 2001.

78. “Algorithmic Mechanism Design”, N. Nisan and A. Ronen. *Games and Economic Behaviour* 35, pages 166 – 196, 2001. (Preliminary version appeared in STOC 1999.)
79. “Bidding and Allocation in Combinatorial Auctions”, N. Nisan. *ACM EC* 2000.
80. “The POPCORN Market - an Online Market for Computational Resources”, Ori Regev and Noam Nisan, invited to special issue of *Decision Support Systems* 28, pp. 177-189, 2000. (Preliminary Version appeared in ICE 1998.)
81. “Algorithms for Selfish Agents”, N. Nisan. Invited to STACS 1999.
82. “Products and Help Bits in Decision Trees”, N. Nisan, S. Rudich, and M. Saks. *Siam J. Computation* 28(3), pp. 1035–1050, 1999. (Preliminary version appeared in FOCS 1994.)
83. “Extracting Randomness – a survey and new constructions”, N. Nisan and A. Ta-Shma. Invited to special issue of *JCSS* 58, pp. 148–173, 1999.
84. “Fast connected components algorithms for the EREW PRAM”, D. Karger, N. Nisan and M. Parnas. *SIAM Journal on Computing* Volume 28, Number 3 pp. 1021-1034, 1999. (Preliminary version appeared in SPAA 1992.)
85. “On one-round randomized communication complexity”, I. Kremer, N. Nisan and D. Ron, *Computational Complexity* 8(1), pp. 21–49, 1999. (Preliminary version appeared in STOC 1995.)
86. “Globally Distributed Computation over the Internet – The POPCORN Project”, Noam Nisan, Shmulik London, Ori Regev, and Noam Camiel, *ICDCS* 1998. (Preliminary version appeared in WWWC 1997.)
87. “Quantum Circuits with Mixed States”, Dorit Aharonov, Alexei Kitaev, and Noam Nisan. *FOCS* 1998.
88. “Approximations of general independent distributions”, G. Even, O. Goldreich, M. Luby, N. Nisan and B. Velickovic. *Random Structures and Algorithms* Vol. 13, No. 1, pp. 1–16, 1998. (Preliminary version appeared in STOC 1992.)

89. “Data structures and asymmetric communication complexity”, P. B. Miltersen, N. Nisan, M. Safra, and A. Wigderson, *Journal of Computer and System Sciences*, 57(1), pp. 37–49, 1998. (Preliminary version appeared in STOC 1995.)
90. “Pointer jumping requires concurrent read”, Z. Bar-Yossef and N. Nisan, STOC 1997.
91. “Lower Bounds on Arithmetic Circuits via Partial Derivatives”, N. Nisan and A. Wigderson, *Computational Complexity* 6(3), pp. 217–234, 1997. (Preliminary version appeared in FOCS 1995.)
92. “How and why to extract randomness”, N. Nisan. Invited to Structures 1996.
93. “Randomness is Linear in Space”, N. Nisan and D. Zuckerman. *J. Comp. Sys. Sci* 52(1), pp. 43-52, 1996. (Preliminary version appeared in STOC 1993 under the title “More deterministic simulation in Logspace”.)
94. “On the Complexity of bilinear forms”, N. Nisan and A. Wigderson, STOC 1995.
95. “Fractional Covers and Communication Complexity”, M.Karchmer, E. Kushilevitz, and N. Nisan. *Siam J. Discrete Math* 8, 1995. (Preliminary version appeared in Structures 1992.)
96. “Symmetric Logspace is closed under complement”, N. Nisan and A. Ta-Shma, *Chicago Journal of Theoretical Computer Science* 1 (1), 1995. (Preliminary version appeared in STOC 1995.)
97. “On Rank vs. Communication Complexity”, N. Nisan and A. Wigderson. *Combinatorica* 15 (4), pp. 557-565, 1995. (Preliminary version appeared in FOCS 1994.)
98. “Amortized communication complexity”, T. Feder, E. Kushilevitz, M. Naor, and N. Nisan. *Siam J. Computation* 24(4), pp 736–750, 1995.
99. “On Constructing 1-1 One-Way Functions” by Oded Goldreich, Leonid A. Levin, and Noam Nisan. ECCC technical report, 1995.
100. “On Yao’s XOR-Lemma” by Oded Goldreich, Noam Nisan, and Avi Wigderson. ECCC technical report, 1995.

101. "Tradeoffs between communication throughput and parallel time", Y. Mansour, N. Nisan, and U. Vishkin. STOC 1994.
102. "Pseudorandomness for Network Algorithms", R. Impagliazzo, N. Nisan, and A. Wigderson. STOC 1994.
103. " $RL \subseteq SC$ ", N. Nisan. Journal of Computational Complexity 4, 1994. (Preliminary version appeared in STOC 1992.)
104. "On the degree of boolean functions as real polynomials", N. Nisan and M. Szegedy. Journal of Computational Complexity 4, 1994, pp. 301-313. (Preliminary version appeared in STOC 1992.)
105. "Hardness vs. Randomness", N. Nisan and A. Wigderson. Invited paper in special issue of J. of Comp. Sci. and Sys 49 (2), pp. 149-167, 1994. (Preliminary version appeared in FOCS 1988 and as an invited talk to Structures 1989.)
106. "A parallel approximation algorithm for the positive linear programming problem", M. Luby and N. Nisan. STOC 1993.
107. "The communication complexity of threshold gates", N. Nisan. Invited talk to "Combinatorics, Paul Erdos is Eighty" conference, proceedings published by Bolyai Society of Mathematical Studies, 1993.
108. "Probabilistic analysis of network flow algorithms", R. Karp, R. Motwani and N. Nisan. Math. of Operations Research 18, pp. 71-97, 1993.
109. "Rounds in communication complexity revisited", N. Nisan and A. Wigderson. Siam J. of Comp. 22 (1), pp. 211-219, 1993. (Preliminary version appeared in STOC 1991.)
110. "BPP has weak subexponential simulations unless EXPTIME has publishable proofs", L. Babai, L. Fortnow, N. Nisan and A. Wigderson. J. of Computational Complexity 3, pp. 307-318, 1993. (Preliminary version appeared in Structures 1991.)
111. "The effect of Random restriction on formula size", R. Impagliazzo and N. Nisan. J. Random structures and Algorithms 4 (2), pp. 121-133, 1993.

112. "On dice and coins: models of computation for uniform generation", D. Feldman, R. Impagliazzo, M. Naor, N. Nisan, S. Rudich and A. Shamir. *Information and Computation* 104 (2), pp. 159-174, 1993. (Preliminary version appeared in ICALP 1989.)
113. "Constant depth circuits, Fourier transform, and learnability", N. Linial, Y. Mansour and N. Nisan. *J. of the ACM* 40 (3), pp. 607-620, 1993. (Preliminary version appeared in FOCS 1989.)
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