

List of Publications

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1 Theses

- On the Complexity of Some Edge Testing Problems, M.Sc. thesis, Computer Science Department, Technion, Haifa, Israel.
Thesis adviser: Prof. S. Even, 1982.
- On the Security of Cryptographic Protocols and Cryptosystems, D.Sc. thesis, Computer Science Department, Technion, Haifa, Israel.
Thesis adviser: Prof. S. Even, 1983.

2 Original Papers in Refereed Journals

Published

- [J1] S. Even and O. Goldreich, The Minimum Length Generator Sequence is NP-Hard, *Journal of Algorithms*, vol. 2, pp. 311–313, 1981.
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- [J97] O. Goldreich and A. Wigderson. Robustly Self-Ordered Graphs: Constructions and Applications to Property Testing, *TheoretCS*, Vol. 1, Art. 1, 2022.
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3 Original Papers in (Refereed) Conference Proceedings

The paper are ordered by the date of the conferences, and not by the date of the publication of its proceedings. This comment is relevant with respect to the early Crypto' conferences (i.e., of the 1980's). Also, till the late 1980's, simultaneous publication in various conferences was allowed (and even encouraged).

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- [C2] S. Even and O. Goldreich, On The Security of Multi-Party Ping-Pong Protocols, in *Advances in Cryptology: Proceedings of Crypto82*, (D. Chaum et al. editors), Plenum Press, p. 315, 1983. (This is an abstract of No. C6.)
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- [C12] W. Alexi, B. Chor, O. Goldreich, and C.P. Schnorr, RSA/Rabin Bits Are $1/2 + 1/poly(\log N)$ -Secure, *Proc. of the 25th IEEE Symp. on Foundation of Computer Science (FOCS)*, 1984, pp. 449-457. (This is an extended abstract of No. J8.)
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4 Other Work

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4.1 Collected Works (LNCS Vol. 6650, 2011)

The works collected in this volume were completed at different times, and were revised towards this publication. The year of the original version is mentioned in square brackets.

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- [O20] O. Goldreich and O. Meir, Bridging a Small Gap in the Gap Amplification of Assignment Testers [2007]
- [O21] O. Goldreich, On (Valiant's) Polynomial-Size Monotone Formula for Majority [2011]

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- [O28] O. Goldreich, The Uniform Distribution is Complete with respect to Testing Identity to a Fixed Distribution [2016]
- [O29] O. Goldreich and M. Leshkowitz, On Emulating Interactive Proofs with Public Coins [2016]
- [O30] O. Goldreich, Reducing Testing Affine Spaces to Testing Linearity of Functions [2016]
- [O31] O. Goldreich, Deconstructing 1-Local Expanders [2016]
- [O32] O. Goldreich and G. Rothblum, Worst-Case to Average-Case Reductions for Subclasses of P [2017]
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- [O36] O. Goldreich, Flexible Models for Testing Graph Properties [2018]
- [O37] I. Benjamini and O. Goldreich, Pseudo-Mixing Time of Random Walks [2019]
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- [O41] O. Goldreich. Testing Isomorphism in the Bounded-Degree Graph Model [2019]

- [O42] O. Goldreich and D. Ron. One-Sided Error Testing of Monomials and Affine Subspaces [2020]
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- [O45] O. Goldreich. On Testing Asymmetry in the Bounded Degree Graph Model [2020]
- [O46] O. Goldreich. Robust Self-Ordering versus Local Self-Ordering [2021]
- [O47] N. Bshouty and O. Goldreich. On properties that are non-trivial to test [2021]
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- [O50] O. Goldreich. On the complexity of enumerating ordered sets [2023]
- [O51] O. Goldreich and L. Tauber. On Testing Isomorphism to a Fixed Graph in the Bounded-Degree Graph Model [2023]
- [O52] O. Goldreich. On coarse and fine approximate counting of t -cliques [2023]
- [O53] O. Goldreich and L. Tauber. On Testing Group Properties [2023]
- [O54] O. Goldreich. On the query complexity of testing local graph properties in the bounded-degree graph model [2024]
- [O55] O. Goldreich. Solving Tree Evaluation in $o(\log n \cdot \log \log n)$ space [2024]
- [O56] O. Goldreich. On defining PPT-search problems [2024]

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- [O58] O. Goldreich, S. Goldwasser, and S. Micali, Interleaved Zero-Knowledge in the Public-Key Model, *ECCC*, TR99-024, 1999.
- [O59] O. Goldreich, Y. Lustig and M. Naor, On Chosen Ciphertext Security of Multiple Encryptions, *Cryptology ePrint Archive*, Report 2002/089, 2002.
- [O60] O. Goldreich and D. Ron, “On Estimating the Average Degree of a Graph”, *ECCC*, TR04-013, 2004. (See follow-up J70.)
- [O61] M. Bellare, O. Goldreich and A. Mityagin, The Power of Verification Queries in Message Authentication and Authenticated Encryption, *Cryptology ePrint Archive*, Report 2004/309.

- [O62] O. Goldreich. Testing Bipartiteness in an Augmented VDF Bounded-Degree Graph Model, arXiv 1905.03070, 2019.
- [O63] O. Goldreich and R. Tell. Complexity theoretic implications of pseudodeterministic algorithms for PPT-search problems, ECCC TR25-011, 2025.
- [O64] O. Goldreich and G. Rothblum. Location-Invariant Properties of Functions versus Properties of Distributions: United in Testing but Separated in Verification, ECCC TR25-105, 2025.
- [O65] I. Dinur and O. Goldreich. Expansion without Connectivity: A Property Testing Perspective, ECCC TR25-129, 2025.
- [O66] O. Goldreich. Proving the PCP Theorem with 1.5 proof compositions (or yet another PCP construction), ECCC TR25-182, 2025.
- [O67] O. Goldreich and G. Rothblum. On doubly-sublinear interactive proofs for distributions, ECCC TR25-200, 2025.
- [O68] O. Goldreich, T. Herman, and G. Rothblum. Interactive proof systems for FARNES, ECCC TR25-201, 2025.

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- [O70] O. Goldreich, A Protocol for Sending Certified Mail, TR No. 239, Computer Science Department, Technion, Haifa, Israel, 1982.
- [O71] O. Goldreich, On the Power of non-binary Block-Ciphers, TR No. 264, Computer Science Department, Technion, Haifa, Israel, 1983.
- [O72] O. Goldreich, Sending Certified Mail Using Oblivious Transfer and a Threshold Scheme, TR No. 325, Computer Science Dept, Technion, Haifa, Israel, 1984.

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- [O73] O. Goldreich and S. Micali, The Weakest Pseudo-Random Generator Implies the Strongest One, October 1984.
- [O74] O. Goldreich and Y. Moses, Finding a Second Solution is NP-Complete for Almost All Known NPC Problems, May 1986.

5 Survey Papers

5.1 Chapters in Books

- [S1] Randomness, Interaction, Proofs and Zero-Knowledge, in *The Universal Turing Machine: A Half-Century Survey*, R. Herken (ed.), Oxford University Press, London, 1988. Pages 377–406.
- [S2] A Taxonomy of Proof Systems, in *Complexity Theory Retrospective II*, L.A. Hemaspaandra and A. Selman (eds.), Springer, 1997. Pages 109–134.
- [S3] Combinatorial Property Testing – A Survey, in *DIMACS Series in Disc. Math. and Theoretical Computer Science*, Vol. 43 (Randomization Methods in Algorithm Design), 1998. Pages 45–59.
- [S4] Fundamentals of Cryptography (Chap. 97.2), in *The Electrical Engineering Handbook*, CRC Press, 2000.
- [S5] Property Testing in Massive Graphs, in *Handbook of Massive Data Sets*, Kluwer, 2002. Pages 123–147.
- [S6] Computational Complexity, in *Mathematics Unlimited – 2001 and Beyond*, Springer, 2001. Pages 507–524.
- [S7] Pseudorandomness – Part I, in *IAS/Park City Mathematics Series*, Vol. 10, 2000. Pages 253–285.
- [S8] On Promise Problems – A Survey, in *Theoretical Computer Science: Essays in Memory of Shimon Even*, Festschrift series of Springer’s LNCS (as Vol 3895), pages 254–290, March 2006.
- [S9] Randomness and Computation, in *Handbook of Probability Theory with Applications*, Sage Publishers, 2008. Pages 131–147.
- [S10] Computational Complexity (with A. Wigderson), in *The Princeton Companion to Mathematics*, Princeton University Press, pages 575–604, 2008.
- [S11] Short Locally Testable Codes and Proofs (Survey), in *Property Testing*, Springer’s LNCS, Vol 6390, pages 65–104, 2010.
- [S12] Introduction to Testing Graph Properties, in *Property Testing*, Springer’s LNCS, Vol 6390, pages 105–141, 2010.
- [S13] General Cryptographic Protocols: The Very Basics, in *Secure Multi-Party Computation* (M.M. Prabhakaran and A. Sahai, eds), pages 1–27, IOS Press, Amsterdam, 2013.
- [S14] A Short Tutorial of Zero-Knowledge, in *Secure Multi-Party Computation* (M.M. Prabhakaran and A. Sahai, eds), pages 28–60, IOS Press, Amsterdam, 2013.
- [S15] On the foundations of cryptography, in *Providing Sound Foundations for Cryptography*, pages 411–496, 2019.

- [S16] On the impact of cryptography on complexity theory, in *Providing Sound Foundations for Cryptography*, pages 497–526, 2019.
- [S17] On some noncryptographic works of Goldwasser and Micali, in *Providing Sound Foundations for Cryptography*, pages 527–542, 2019.

5.2 Published in Periodicals or Conference Proceedings

- [S18] A Taxonomy of Proof Systems, guest column, in two parts. Part 1 in *Sigact News – Complexity Theory Column 3*, Vol. 24, No. 4, December 1993, pp. 2–13. Part 2 in *Sigact News – Complexity Theory Column 4*, Vol. 25, No. 1, March 1994, pp. 22–30. (This is a preliminary version of No. S2.)
- [S19] What is an Envelope, *Almost 2000* (a popular journal for Science and Technology), Vol. 1, pp. 15–17, 1994, (in Hebrew).
- [S20] Probabilistic Proof Systems, in the *Proceedings of the International Congress of Mathematicians 1994*, Birkhäuser Verlag, Basel, 1995, pp. 1395–1406.
- [S21] On the Foundations of Modern Cryptography (essay), in the proceedings of *Crypto97*, Springer LNCS, Vol. 1294, pp. 46–74.
(A brief summary has appeared in *CryptoBytes*, the technical newsletter of RSA Laboratories, Vol. 3, No. 2, 1997.)
- [S22] Pseudorandomness, in *Notices of AMS*, pages 1209–1216, November 1999. (This is an abbreviated version of No. S23.)
- [S23] Pseudorandomness, in the *Proc. of the 27th ICALP*, Springer LNCS, Vol. 1853, pages 687–704, 2000.
- [S24] Cryptography and Cryptographic Protocols, *PODC Jubilee Issue of Distributed Computing*, Vol. 16, No. 2–3, pages 177–199, 2003.
- [S25] Zero-Knowledge: Abstract of a Tutorial, in the *Proc. of the 43rd FOCS*, page 3, 2002. (This is an abstract of No. S26.)
- [S26] Zero-Knowledge twenty years after its invention, *Quaderni di Matematica*, Vol. 13 (Complexity of Computations and Proofs, ed. J. Krajicek), pages 249–304, 2004.
- [S27] Foundations of Cryptography – A Primer, in *Foundations and Trends in Theoretical Computer Science*, Volume 1, Issue 1, 2005.
- [S28] Bravely, Moderately: A Common Theme in Four Recent Results, guest column, in *Sigact News – Complexity Theory Column 51*, Vol. 37, Nr. 2, pages 31–46, June 2006.
- [S29] Probabilistic Proof Systems – A Primer, in *Foundations and Trends in Theoretical Computer Science*, Volume 3, Issue 1, 2007.
- [S30] Invitation to Complexity Theory, in *XRDS*, Vol. 18, No. 3, Spring 2012.
- [S31] On Doubly-Efficient Interactive Proof Systems, in *Foundations and Trends in Theoretical Computer Science*, Volume 13, Issue 3, 2018.

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In addition to the surveys listed next, surveys number S9, S11, S12, and S28 also appear in this collection. The surveys collected in this volume were completed at different times, and were revised towards this publication. The year of the original version is mentioned in square brackets.

- [S32] On Yao's XOR-Lemma (with N. Nisan and A. Wigderson) [1995]
- [S33] Three XOR-Lemmas – An Exposition [1995]
- [S34] A Sample of Samplers – A Computational Perspective on Sampling [1997]
- [S35] Notes on Levin's Theory of Average-Case Complexity [1988 and 1997]
- [S36] On Security Preserving Reductions – Revised Terminology [2000]
- [S37] On the complexity of computational problems regarding distributions (with S. Vadhan) [2003]
- [S38] Basing Non-Interactive Zero-Knowledge on (Enhanced) Trapdoor Permutations: The State of the Art [2008]
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- [S40] Basic Facts about Expander Graphs [2008]
- [S41] A Brief Introduction to Property Testing [2010]

5.4 Collected Works (LNCS Vol. 15700, 2025)

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- [S42] On the Locally Testable Code of Dinur et al. (2021) [2021]
- [S43] On Parallel Repetition of Interactive Proof Systems [2023]
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- [S45] On the relaxed LDC of BGHSV: A survey that corrects the record [2024]
- [S46] On the Cook-Mertz Tree Evaluation procedure [2024]

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- [S48] “Overview of the doubly-efficient interactive proof systems of RRR”, *ECCC*, TR17-102, June 2017.
- [S49] “Open Problems in Property Testing of Graphs”, *ECCC*, TR21-088, June 2021.
- [S50] “The KW Games as a Teaser”, *ECCC*, TR21-181, December 2021.
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6 Books, Lecture Notes, and Related Material

Books

- [B1] *Modern Cryptography, Probabilistic Proofs and Pseudorandomness*, 1998.
Springer, Volume 17 of the Algorithms and Combinatorics series.
- [B2] *Foundations of Cryptography – Basic Tools*, 2001.
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- [B3] *Foundations of Cryptography – Basic Applications*, 2004.
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- [B5] *P, NP, and NP-Completeness: The Basics of Complexity Theory*, 2010.
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- [B6] *A Primer on Pseudorandom Generators*, 2010.
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- [B7] *Introduction to Property Testing*, 2017.
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Lecture Notes

- [B8] *Foundations of Cryptography – Class Notes*, 1989.
Computer Science Department, Technion, 184 pages.
(Superseded by B2 and B3.)
- [B9] *Theory of Computation* (draft for a textbook in Hebrew), 1989.
Computer Science Department, Technion, 184 pages. (Third edition: 1992.)
- [B10] *Introduction to Complexity Theory – Lecture Notes*.
 1. For a two-semester course, 353 pages, 1999.

2. For a one-semester course, 104 pages, 2002.

Department of Computer Science and Applied Math., Weizmann Institute of Science.
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[B11] *Randomized Methods in Computation – Lecture Notes*, 2001.

Department of Computer Science and Applied Math., Weizmann Institute, 155 pages.

Other Material

[B12] *Foundations of Cryptography – Fragments of a Book*, 1995.

Department of Computer Science and Applied Math., Weizmann Institute, 292 pages.
(This is a preliminary version of B2.)