

CURRICULUM VITAE

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(Updated: September 2011)

1 Personal Data

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2 Education

- Ph.D. in Computer Science. Hebrew University, July 1987.
- M.Sc. in Computer Science, *cum laude*. Hebrew University, June 1983.
- B.Sc. in Mathematics (expanded) and Computer Science, *cum laude*. Hebrew University, June 1981.

3 Academic Appointments

August 2005–present: Professor, Faculty of Computer Science, Technion.

February 1997–July 2005: Associate Professor, Faculty of Computer Science, Technion.

October 1990–February 1997: Senior lecturer (with tenure since May 1994), Faculty of Computer Science, Technion.

September 1988–September 1990: Postdoctoral research associate with the Theory of Distributed Systems research group at the Laboratory for Computer Science, M.I.T.

October 1987–August 1988: Instructor, Department of Computer Science, Tel-Aviv University.

October 1983–September 1986: Research assistant, Department of Computer Science, Hebrew University.

October 1981–September 1983: Teaching assistant, Department of Computer Science, Hebrew University.

4 Other Professional Employment (Selected)

August 2009–August 2010: Visiting professor at the *École Polytechnique Fédérale de Lausanne* (EPFL), Switzerland.

September 2001–September 2002: Research scientist at Dune Semiconductor Ltd.

July/August 1993: Visiting scientist at the Software Principles Research department, AT&T Bell Laboratories, Murray Hill.

August 1991: Visiting scientist, DEC Cambridge Research Laboratory.

5 Editorial

Springer-Verlag's journal *Distributed Computing*.

Editor-in-chief, since 2008.

Editorial board member, since 2003.

Guest editor, special issue celebrating twenty years of PODC, Volume 16, Numbers 2-3, 2003.

SIAM Journal on Computing, *Editorial board member*, since 2005.

Springer-Verlag's journal *Algorithmica*, *Editorial board member*, 2004–2007.

6 Program Committees for International Conferences (Selected)

International Colloquium on Automata, Languages and Programming (ICALP).

Member, program committee, 2009.

ACM Symposium on Principles of Distributed Computing (PODC).

Chair, program committee, 1997.

Member, steering committee, August 1996–July 1999.

Member, program committee, 1992, 1995, 2007, 2009.

International Parallel and Distributed Processing Symposium (IPDPS) sponsored by IEEE / ACM.

Vice-chair (Algorithms), program committee, 2002.

Member, program committee, 2004, 2006.

International Symposium on Distributed Computing (DISC), formerly *WDAG*.

Member (elected), steering committee, October 2003–present.

Member, program committee, 1996, 2001, 2003.

Member, program committee, *Supercomputing 2004*.

Member, program committee, European Symposium on Algorithms (ESA), 1996, 1999, 2008.

Member, program committee, ACM Symposium on Theory of Computing (STOC), 1995.

7 Other Professional Activities (Selected)

Member, Israel's ministry of Education *Council of Higher Education* (MALAG), 2010–.

Member, ACM Software System Award committee, 2009–.

Chair, scientific committee for computer science, *Israel Science Foundation*, three academic years 2001–2004.

8 List of Publications

8.1 Original Papers in Refereed Journals

- [J1] H. Attiya and Y. Mansour, “Language Complexity on the Synchronous Anonymous Ring,” *Theoretical Computer Science*, Vol. 53, No. 3 (1987), pp. 167–185.
- [J2] H. Attiya, M. Snir and M. K. Warmuth, “Computing on an Anonymous Ring,” *Journal of the ACM*, Vol. 35, No. 4 (October 1988), pp. 845–875.
- [J3] H. Attiya, N. Santoro, J. van Leeuwen and S. Zaks, “Elections in Chordal Graphs,” *Algorithmica*, Vol. 4, No. 3 (1989), pp. 437–446.
- [J4] H. Attiya, A. Bar-Noy, D. Dolev, D. Peleg and R. Reischuk, “Renaming in an Asynchronous Environment,” *Journal of the ACM*, Vol. 37, No. 3 (July 1990), pp. 524–548.
- [J5] H. Attiya and M. Snir, “Better Computing on the Anonymous Ring,” *Journal of Algorithms*, Vol. 12 (June 1991), pp. 204–238.
- [J6] N. A. Lynch and H. Attiya, “Using Mappings to Prove Timing Properties,” *Distributed Computing*, Vol. 6, No. 2 (1992), pp. 121–139.
- [J7] Y. Afek, H. Attiya, D. Dolev, E. Gafni, M. Merritt and N. Shavit, “Atomic Snapshots of Shared Memory,” *Journal of the ACM*, Vol. 40, No. 4 (September 1993), pp. 873–890.
- [J8] H. Attiya, C. Dwork, N. A. Lynch and L. J. Stockmeyer, “Bounds on the Time to Reach Agreement in the Presence of Timing Uncertainty,” *Journal of the ACM*, Vol. 41, No. 1 (January 1994), pp. 122–152.
- [J9] H. Attiya and N. A. Lynch, “Time Bounds for Real-Time Process Control in the Presence of Timing Uncertainty,” *Information and Computation*, Vol. 110, No. 1 (April 1994), pp. 183–232.
- [J10] H. Attiya and J. L. Welch, “Sequential Consistency versus Linearizability,” *ACM Trans. on Computer Systems*, Vol. 12, No. 2 (May 1994), pp. 99–122.
- [J11] H. Attiya, N. Lynch and N. Shavit, “Are Wait-Free Algorithms Fast?” *Journal of the ACM*, Vol. 41, No. 4 (July 1994), pp. 725–763.
- [J12] Y. Afek, H. Attiya, A. Fekete, M. J. Fischer, N. A. Lynch, Y. Mansour, D. Wang and L. D. Zuck, “Reliable Communication Over Unreliable Channels,” *Journal of the ACM*, Vol. 41, No. 6 (November 1994), pp. 1267–1297.

- [J13] H. Attiya and M. Mavronicolas, “Efficiency of Semi-Synchronous versus Asynchronous Networks,” *Mathematical Systems Theory*, Vol. 27 (1994), pp. 547–571.
- [J14] H. Attiya, A. Bar-Noy and D. Dolev, “Sharing Memory Robustly in Message-Passing Systems,” *Journal of the ACM*, Vol. 42, No. 1 (January 1995), pp. 124–142.
- [J15] H. Attiya, S. Dolev and J. L. Welch, “Connection Management without Retaining Information,” *Information and Computation*, Vol. 123, No. 2 (December 1995), pp. 155–171.
- [J16] H. Attiya, M. Herlihy and O. Rachman, “Atomic Snapshots Using Lattice Agreement,” *Distributed Computing*, Vol. 8 (1995), No. 3, pp. 121–132.
- [J17] E. Aharonson and H. Attiya, “Counting Networks with Arbitrary Fan-Out,” *Distributed Computing*, Vol. 8 (1995), No. 4, pp. 163–169.
- [J18] H. Attiya, A. Herzberg and S. Rajsbaum, “Clock Synchronization Under Different Delay Assumptions,” *SIAM Journal on Computing*, Vol. 25, No. 2 (April 1996), pp. 369–389.
- [J19] H. Attiya and R. Friedman, “Limitations of Local Consistency Conditions for Distributed Shared Memories,” *Information Processing Letters*, Vol. 57, No. 5, pp. 243–248 (1996).
- [J20] R. Alur, H. Attiya and G. Taubenfeld, “Time-Adaptive Algorithms for Synchronization,” *SIAM Journal on Computing*, Vol. 26, No. 2 (April 1997), pp. 539–556.
- [J21] H. Attiya and R. Rappoport, “The Level of Handshake Required for Managing a Connection,” *Distributed Computing*, Vol. 11, No. 1 (November 1997), pp. 41–57.
- [J22] H. Attiya, S. Chaudhuri, R. Friedman and J. L. Welch, “Shared Memory Consistency Conditions for Non-Sequential Execution: Definitions and Programming Strategies,” *SIAM Journal on Computing*, Vol. 27, No. 1 (February 1998), pp. 65–89.
- [J23] H. Attiya and O. Rachman, “Atomic Snapshots in $O(n \log n)$ Operations,” *SIAM Journal on Computing*, Vol. 27, No. 2 (April 1998), pp. 319–340.
- [J24] H. Attiya and R. Friedman, “A Correctness Condition for High-Performance Multiprocessors,” *SIAM Journal on Computing*, Vol. 27, No. 6 (1998), pp. 1617–1636.
- [J25] H. Attiya, H. Shachnai and T. Tamir, “Local Labelling and Resource Allocation Using Preprocessing,” *SIAM Journal on Computing*, Vol. 28, No. 4 (1999), pp. 1397–1414.
- [J26] H. Attiya, “Efficient and Robust Sharing of Memory in Message-Passing Systems,” *Journal of Algorithms*, Vol. 34, No. 1 (January 2000), pp. 109–127.
- [J27] H. Attiya and A. Fouren, “Adaptive and Efficient Algorithms for Lattice Agreement and Renaming,” *SIAM Journal on Computing*, Vol. 31, No. 2 (2001), pp. 642–664.
- [J28] H. Attiya and T. Djerassi-Shintel, “Time Bounds for Decision Problems in the Presence of Timing Uncertainties and Failures,” *Journal of Parallel and Distributed Computing*, Vol. 61, No. 8 (August 2001), pp. 1096–1109.
- [J29] H. Attiya and E. Dagan, “Improved Implementations of Binary Universal Operations,” *Journal of the ACM*, Vol. 48, No. 5 (September 2001), pp. 1013–1037.

- [J30] H. Attiya, A. Fouren and E. Gafni, “An Adaptive Collect Algorithm with Applications,” *Distributed Computing*, Vol. 15, No. 2 (2002), pp. 87–96.
- [J31] H. Attiya, A. Gorbach and S. Moran, “Computing in Totally Anonymous Asynchronous Shared Memory Systems,” *Information and Computation*, No. 173 (2002), pp. 1–22.
- [J32] H. Attiya and V. Bortnikov, “Adaptive and Efficient Mutual Exclusion,” *Distributed Computing*, Vol. 15, No. 3 (2002), pp. 177–189.
- [J33] H. Attiya and S. Rajsbaum, “The Combinatorial Structure of Wait-Free Solvable Tasks,” *SIAM Journal on Computing*, Vol. 31, No. 4 (2002), pp. 1286–1313.
- [J34] A. Adir, H. Attiya and G. Shurek, “Information-Flow Models for Shared Memory with an Application to the PowerPC Architecture,” *IEEE Transactions on Parallel and Distributed Systems*, Vol. 14, No. 5 (May 2003), pp. 502–515.
- [J35] H. Attiya and A. Fouren, “Algorithms Adapting to Point Contention,” *Journal of the ACM*, Vol. 50, No. 4 (July 2003), pp. 444–468.
- [J36] A. Agbaria, H. Attiya, R. Friedman and R. Vitenberg, “Quantifying Rollback Propagation in Distributed Checkpointing,” *Journal on Parallel and Distributed Computing*, Vol. 64, No. 3 (March 2004), pp. 370–384.
- [J37] H. Attiya and H. Shachnai, “Tight bounds for FEC-Based Reliable Multicast,” *Information and Computation*, Vol. 190, No. 2 (May 2004), pp. 117–135.
- [J38] R. Nossenson and H. Attiya, “The Distribution of File Transmission Duration in the Web,” *International Journal of Communication Systems*, Vol. 17, No. 5 (June 2004), pp. 407–419.
- [J39] H. Attiya, F. Kuhn, G. Plaxton, M. Wattenhofer and R. Wattenhofer, “Efficient Adaptive Collect using Randomization,” *Distributed Computing*, Vol. 18, No. 3 (February 2006), pp. 179–189, special issue of papers from *DISC 2004*.
- [J40] H. Attiya and D. Hay, “The Inherent Queuing Delay of Parallel Packet Switches,” *IEEE Transactions on Parallel and Distributed Systems* Vol. 17, No. 9 (September 2006), pp. 1048–1056.
- [J41] H. Attiya and A. Bar-Or, “Sharing Memory with semi-Byzantine Clients and Faulty Storage Servers,” *Parallel Processing Letters*, Vol. 16, No. 4 (December 2006), pp. 419–428.
- [J42] H. Attiya and D. Hay, “Randomization does not Reduce the Average Delay in Parallel Packet Switches,” *SIAM Journal on Computing*. Vol. 37, No. 5 (January 2008), pp. 1613–1636.
- [J43] H. Attiya and K. Censor, “Tight Bounds for Asynchronous Randomized Consensus,” *Journal of the ACM*, Vol. 55, No. 5 (October 2008), Article 20.
- [J44] H. Attiya, R. Guerraoui, D. Hendler and P. Kouznetsov, “The Cost of Obstruction-Freedom,” *Journal of the ACM*, Vol. 56, No. 4 (June 2009), Article 24.
- [J45] H. Attiya and D. Hendler, “Time and Space Lower Bounds for Implementations Using k-CAS,” *IEEE Transactions on Parallel and Distributed Systems*, Vol. 21, No. 2 (February 2010), pp. 162–173.

- [J46] J. Aspnes, H. Attiya and K. Censor, “Combining Shared Coin Algorithms,” *Journal of Parallel and Distributed Computing*, Vol. 70 (March 2010), pp. 317–322.
- [J47] H. Attiya, A. Kogan and J. Welch, “Efficient and Fault-Tolerant Local Mutual Exclusion in Mobile Ad-Hoc Networks,” *IEEE Transactions on Mobile Computing*, Vol. 9, No. 3 (March 2010), pp. 361–375.
- [J48] H. Attiya, L. Epstein, H. Shachnai and T. Tamir, “Transactional Contention Management as a Non-Clairvoyant Scheduling Problem,” *Algorithmica*, Vol. 57, No. 1 (May 2010), pp. 44–61.
- [J49] H. Attiya and K. Censor, “Lower Bounds for Randomized Consensus under a Weak Adversary,” *SIAM Journal on Computing*, Vol. 39, No. 8 (December 2010), pp. 3885–3904.
- [J50] H. Attiya, D. Hay and I. Keslassy, “Packet-Mode Emulation of Output-Queued Switches,” *IEEE Transactions on Computers*, Vol. 59, No. 10 (2010), pp. 1378–1391.
- [J51] H. Attiya and E. Hillel, “Highly-Concurrent Multi-Word Synchronization,” *Theoretical Computer Science*, Vol. 412, Nos. 12-14 (2011), pp. 1243–1262 (special issue of papers from ICDCN 2008, by invitation).
- [J52] H. Attiya, E. Hillel and A. Milani, “Inherent Limitations on Disjoint-Access Parallel Implementations of Transactional Memory,” *Theory of Computing Systems*, Vol. 49, No. 4 (November 2011), pp. 698–719 (special issue of papers from SPAA 2009, by invitation).

8.2 In Press or Accepted

- [J53] H. Attiya, F. Ellen and P. Fatourou, “The Complexity of Updating Multi-Writer Snapshot Objects,” accepted to *Journal of Parallel and Distributed Computing*.
- [J54] J. Aspnes, H. Attiya and K. Censor, “Max Registers, Counters, and Monotone Circuits,” accepted to *Journal of the ACM*.

8.3 Chapters in Books

- [J55] H. Attiya, “Theory of Distributed Computing,” Chapter 5 in A. Zomaya (ed.), *The Handbook of Parallel and Distributed Computing*, McGraw-Hill, December 1995 (by invitation).

8.4 Books

- [B1] H. Attiya and J. L. Welch, *Distributed Computing: Fundamentals, Simulations and Advanced Topics*, McGraw-Hill Publishing Co., London, May 1998, 451 pages. ISBN 0-07-7093526.
Second edition, J. Wiley Interscience, March 2004, 431 pages, ISBN 0-471-453242.

8.5 Refereed Conferences

- [C1] H. Attiya and S. Nirenburg, “Towards a Data Model for Artificial Intelligence Applications,” *International Conference on Data Engineering (COMPDEC)*, Los Angeles, April 1984, pp. 446–453.

- [C2] H. Attiya and S. Nirenburg, “Interruptible Transition Networks,” *22nd Annual Meeting of the Association for Computational Linguistics (COLING84)*, Stanford University, California, July 1984, pp. 393–397.
- [C3] H. Attiya, D. Dolev and Y. Gil, “Asynchronous Byzantine Consensus,” *3rd Annual ACM Symposium on Principles of Distributed Computing*, Vancouver, Canada, August 1984, pp. 119–133.
- [C4] H. Attiya, M. Snir and M. K. Warmuth, “Computing on an Anonymous Ring,” *4th Annual ACM Symposium on Principles of Distributed Computing*, Minaki, Canada, August 1985, pp. 196–203.
- [C5] H. Attiya, N. Santoro and S. Zaks, “From Rings to Complete Graphs - $\Theta(n)$ to $\Theta(n \log n)$ Distributed Leader Election,” *Colloque C³ (Cooperation, Concurrence et Communication)*, Angouleme, France, May 1987.
- [C6] H. Attiya, “Constructing Efficient Election Algorithms from Efficient Traversal Algorithms,” *2nd International Workshop on Distributed Algorithms*, Amsterdam, The Netherlands, July 1987 (J. van Leeuwen, ed.), pp. 337–344. Lecture Notes in Computer Science #312, Springer-Verlag.
- [C7] H. Attiya, A. Bar-Noy, D. Dolev, D. Koller, D. Peleg and R. Reischuk, “Achievable Cases in an Asynchronous Environment,” *28th Annual IEEE Symposium on Foundations of Computer Science*, Los-Angeles, October 1987, pp. 337–346.
- [C8] H. Attiya and M. Snir, “Better Computing on the Anonymous Ring,” *3rd International Workshop on Parallel Computation and VLSI Theory (Aegean Workshop on Computing)*, Corfu, Greece, June 1988 (J. Reif, ed.), pp. 329–338. Lecture Notes in Computer Science #319, Springer-Verlag.
- [C9] H. Attiya, D. Dolev and N. Shavit, “Bounded Polynomial Randomized Consensus,” *8th Annual ACM Symposium on Principles of Distributed Computing*, Edmonton, Canada, August 1989, pp. 281–293.
- [C10] H. Attiya and N. A. Lynch, “Time Bounds for Real-Time Process Control in the Presence of Timing Uncertainty,” *10th IEEE Real-Time Systems Symposium*, Santa Monica, December 1989, pp. 268–284.
- [C11] H. Attiya, A. Bar-Noy and D. Dolev, “Sharing Memory Robustly in Message-Passing Systems,” *9th Annual ACM Symposium on Principles of Distributed Computing*, 1990, pp. 363–376.
- [C12] N. A. Lynch and H. Attiya, “Using Mappings to Prove Timing Properties,” *9th Annual ACM Symposium on Principles of Distributed Computing*, 1990, pp. 265–280.
- [C13] Y. Afek, H. Attiya, D. Dolev, E. Gafni, M. Merritt and N. Shavit, “Atomic Snapshots of Shared Memory,” *9th Annual ACM Symposium on Principles of Distributed Computing*, 1990, pp. 1–14.
- [C14] H. Attiya, N. A. Lynch and N. Shavit, “Are Wait-Free Algorithms Fast?” *31st Annual IEEE Symposium on Foundations of Computer Science (FOCS)*, October 1990, pp. 55–64.
- [C15] H. Attiya and M. Mavronicolas, “Efficiency of Semi-Synchronous versus Asynchronous Networks,” *28th annual Allerton Conference on Communication, Control and Computing*, October 1990, pp. 578–587.

- [C16] H. Attiya, C. Dwork, N. A. Lynch and L. J. Stockmeyer, “Bounds on the Time to Reach Agreement in the Presence of Timing Uncertainty,” *23rd ACM Symposium on Theory of Computing*, May 1991, pp. 359–369.
- [C17] H. Attiya and J. L. Welch, “Sequential Consistency versus Linearizability,” *3rd ACM Symposium on Parallel Algorithms and Architectures (SPAA)*, July 1991, pp. 304–315.
- [C18] H. Attiya, “Implementing FIFO Queues and Stacks,” *5th International Workshop on Distributed Algorithms*, Delphi, Greece, October 1991 (S. Toueg, P. Spirakis and L. Kirousis, eds.), pp. 80–94, Lecture Notes in Computer Science #579, Springer-Verlag.
- [C19] E. Aharonson and H. Attiya, “Counting Network with Arbitrary Fan-Out,” *3rd Annual ACM-SIAM Symp. on Discrete Algorithms*, Orlando, Florida, January 1992, pp. 104–113.
- [C20] H. Attiya and R. Friedman, “A Consistency Condition for High-Performance Multiprocessors,” *24th ACM Symposium on Theory of Computing*, Victoria, B.C., May 1992, pp. 679–690.
- [C21] H. Attiya, M. Herlihy and O. Rachman, “Atomic Snapshots Using Lattice Agreement,” *6th International Workshop on Distributed Algorithms*, Haifa, Israel, November 1992, (A. Segall and S. Zaks, eds.), pp. 35–53, Lecture Notes in Computer Science #647, Springer-Verlag.
- [C22] H. Attiya, S. Chaudhuri, R. Friedman and J. L. Welch, “Shared Memory Consistency Conditions for Non-Sequential Execution: Definitions and Programming Strategies,” *5th ACM Symp. on Parallel Algorithms and Architectures (SPAA)*, Velen, Germany, June/July 1993, pp. 241–250.
- [C23] H. Attiya, A. Herzberg and S. Rajsbaum, “Clock Synchronization Under Different Delay Assumptions,” *12th Annual ACM Symposium on Principles of Distributed Computing*, Ithaca, New-York, August 1993, pp. 109–120.
- [C24] H. Attiya and O. Rachman, “Atomic Snapshots in $O(n \log n)$ Operations,” *12th Annual ACM Symposium on Principles of Distributed Computing*, Ithaca, New-York, August 1993, pp. 29–40.
- [C25] H. Attiya and T. Djerassi-Shintel, “Time Bounds for Decision Problems in the Presence of Timing Uncertainties and Failures,” *7th International Workshop on Distributed Algorithms*, Lausanne, Switzerland, September 1993, (A. Schiper, Ed.), pp. 204–218, Lecture Notes in Computer Science #725, Springer-Verlag.
- [C26] R. Alur, H. Attiya and G. Taubenfeld, “Time-Adaptive Algorithms for Synchronization,” *26th ACM Symp. on Theory of Computing*, 1994, pp. 800–809.
- [C27] H. Attiya and R. Friedman, “Programming DEC-Alpha Based Multiprocessors the Easy Way,” *6th ACM Symp. on Parallel Algorithms and Architectures (SPAA)*, 1994.
- [C28] H. Attiya and R. Rappoport, “The Level of Handshake Required for Establishing a Connection,” *8th International Workshop on Distributed Algorithms*, Terschelling, The Netherlands, September/October 1994, (G. Tel and P. Vitanyi, Eds.), pp. 179–193, Lecture Notes in Computer Science #857, Springer-Verlag.

- [C29] H. Attiya, H. Shachnai and T. Tamir, “Local Labeling and Resource Allocation Using Preprocessing,” *8th International Workshop on Distributed Algorithms*, Terschelling, The Netherlands, September/October 1994, (G. Tel and P. Vitanyi, Eds.), pp. 194–208, Lecture Notes in Computer Science #857, Springer-Verlag.
- [C30] J. Kleinberg, H. Attiya and N. Lynch, “Trade-Offs Between Message Delivery and Quiescent Times in Connection Management Protocols,” *3rd Israel Symposium on Theory of Computing and Systems*, January 1995, pp. 258–267.
- [C31] H. Attiya and E. Dagan, “Universal Operations: Unary versus Binary,” *15th ACM Symposium on Principles of Distributed Computing (PODC)*, May 1996, pp. 223–232.
- [C32] H. Attiya and S. Rajsbaum, “The Combinatorial Structure of Wait-Free Solvable Tasks,” *10th International Workshop on Distributed Algorithms (WDAG)*, October 1996, (O. Babaoglu and K. Marzullo, Eds.), pp. 321–343. Lecture Notes in Computer Science #1151, Springer-Verlag.
- [C33] H. Attiya, “Efficient and Robust Sharing of Memory in Message-Passing Systems,” *10th International Workshop on Distributed Algorithms (WDAG)*, October 1996, (O. Babaoglu and K. Marzullo, Eds.), pp. 56–70. Lecture Notes in Computer Science #1151, Springer-Verlag.
- [C34] H. Attiya and H. Shachnai, “IDA-Based Protocols for Reliable Multicast,” *International Conference on Principles of Distributed Systems (OPODIS)*, Picardie, December 1997.
- [C35] H. Attiya and A. Fouren, “Adaptive Wait-Free Algorithms for Lattice Agreement and Renaming,” *17th ACM Symposium on Principles of Distributed Computing (PODC)*, June 1998, pp. 277–286.
- [C36] H. Attiya, A. Gorbach and S. Moran, “Computing in Totally Anonymous Asynchronous Shared Memory Systems,” *12th International Symposium on Distributed Computing (DISC)*, September 1998, (S. Kutten, ed.), pp. 49–61. Lecture Notes in Computer Science #1499, Springer-Verlag.
- [C37] Y. Afek, H. Attiya, A. Fouren, G. Stupp and D. Touitou, “Long-Lived Renaming Made Adaptive,” *18th ACM Symposium on Principles of Distributed Computing (PODC)*, May 1999, pp. 91–103.
- [C38] H. Attiya and V. Bortnikov, “Adaptive and Efficient Mutual Exclusion,” *19th ACM Symposium on Principles of Distributed Computing (PODC)*, July 2000, pp. 91–100.
- [C39] H. Attiya and A. Fouren, “Polynomial and Adaptive Long-lived $(2k - 1)$ -Renaming,” *14th International Symposium on Distributed Computing (DISC)*, October 2000, pp. 149–163. *Best student paper award.*
- [C40] A. Agbaria, H. Attiya, R. Friedman and R. Vitenberg, “Quantifying Rollback Propagation in Distributed Checkpointing,” *20th IEEE Symposium on Reliable Distributed Systems (SRDS)*, October 2001, pp. 36–45.
- [C41] H. Attiya and Z. Avidor, “Wait-Free n -Set Consensus when Inputs are Restricted,” *16th International Symposium on Distributed Computing (DISC)*, October 2002, pp. 326–338.
- [C42] R. Nossenson and H. Attiya, “The Distribution of File Transmission Duration in the Web,” *International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*, July 2003, pp. 647–654. Also presented as a poster in *12th International World Wide Web Conference (WWW)*, May 2003.

- [C43] H. Attiya and A. Bar-Or, “Sharing Memory with semi-Byzantine Clients and Faulty Storage Servers,” *22nd IEEE Symposium on Reliable Distributed Systems (SRDS)*, October 2003, pp. 371–378.
- [C44] R. Nossenson and H. Attiya, “Evaluating Self-Similar Processes for Modeling Web Servers,” *International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*, July 2004.
- [C45] H. Attiya, F. Ellen Fich and Y. Kaplan, “Lower Bounds for Adaptive Collect and Related Problems,” *23rd ACM Symposium on Principles of Distributed Computing (PODC)*, July 2004, pp. 60–69.
- [C46] H. Attiya and D. Hay, “The Inherent Queuing Delay of Parallel Packet Switches,” *3rd IFIP International Conference on Theoretical Computer Science*, August 2004, pp. 139–152.
Also: a revue paper in *16th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)*, June 2004.
- [C47] H. Attiya, F. Kuhn, M. Wattenhofer and R. Wattenhofer, “Efficient Adaptive Collect using Randomization,” *18th International Symposium on Distributed Computing (DISC)*, October 2004, pp. 159–173.
Best student paper award (co-winner).
- [C48] R. Nossenson and H. Attiya, “The N-Burst/G/1 Model with Heavy-Tailed Service-Times Distribution,” *12th IEEE / ACM Symposium on Modelling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, October 2004, pp. 131–138.
- [C49] H. Attiya and D. Hay, “Randomization does not Reduce the Average Delay in Parallel Packet Switches,” *17th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)*, July 2005, pp. 11–20.
- [C50] H. Attiya, R. Guerraoui and P. Kouznetsov, “Computing with Reads and Writes in the Absence of Step Contention,” *19th International Symposium on Distributed Computing (DISC)*, September 2005, pp. 122–136.
- [C51] H. Attiya and D. Hendler, “Time and Space Lower Bounds for Implementations Using k -CAS,” *19th International Symposium on Distributed Computing (DISC)*, September 2005, pp. 169–183.
- [C52] H. Attiya, D. Hay, J. L. Welch, “Optimal Clock Synchronization under Energy Constraints in Wireless Ad-Hoc Networks,” *9th International Conference on Principles of Distributed Systems (OPODIS)*, December 2005, pp. 221–234.
- [C53] H. Attiya, D. Hay and I. Keslassy, “Packet-Mode Emulation of Output-Queued Switches,” *18th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)*, July 2006, pp. 138–147.
- [C54] H. Attiya, R. Guerraoui, D. Hendler and P. Kouznetsov, “Synchronizing without Locks is Inherently Expensive,” *25th ACM Symposium on Principles of Distributed Computing (PODC)*, July 2006, pp. 300–307.
- [C55] H. Attiya, L. Epstein, H. Shachnai and T. Tamir, “Transactional Contention Management as a Non-Clairvoyant Scheduling Problem,” *25th ACM Symposium on Principles of Distributed Computing (PODC)*, July 2006, pp. 308–315.
- [C56] H. Attiya and E. Hillel, “Built-in Coloring for Highly-Concurrent Doubly-Linked Lists,” *20th International Symposium on Distributed Computing (DISC)*, September 2006, pp. 31–45.

- [C57] H. Attiya, F. Ellen and P. Fatourou, “The Complexity of Updating Multi-Writer Snapshot Objects,” *8th International Conference on Distributed Computing and Networking (ICDCN)*, December 2006.
- [C58] H. Attiya and K. Censor, “Tight Bounds for Asynchronous Randomized Consensus,” *39th ACM Symposium on Theory of Computing (STOC)*, June 2007, pp. 155–164.
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