

Keren Censor-Hillel

Personal

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Employment

2012 - present: Assistant Professor at the Technion

2010 - 2012: Simons Postdoctoral Fellow at the Theory Group, CSAIL, MIT

Education

2006-2010: Ph.D. student in Computer Science, Technion.
Advisor: Prof. Hagit Attiya
Dissertation title: Probabilistic Methods in Distributed Computing

2003-2006: M.Sc. in Computer Science, Technion.
Advisor: Prof. Tuvi Etzion
Thesis title: Constrained Codes for Two-Dimensional Channels

2000-2003: B.A. in Mathematics, Technion. *summa cum laude*.

Academic Activities

Grant Panel Member:

Binational Science Foundation Student Travel Grants, 2017.

Journal Editorial Board:

Transactions on Algorithms (TALG), ACM, 2017-present.

Theoretical Computer Science (TCS), Elsevier, 2016-present.

SIAM Journal on Computing (SICOMP), guest co-editor for the special issue of STOC 2016.

Steering Committee Member:

International Symposium on Distributed Computing (DISC), member-at-large, 2013-present.

Program Committee Chair:

- The 12th Israeli Networking Day 2017 (**co-chair**)
- The 4th Workshop on Advances in Distributed Graph Algorithms (ADGA) 2015
- The 9th ACM Workshop on Foundations of Mobile Computing (FOMC) 2013 (**co-chair**)

Program Committee Member:

- The 12th Latin American Theoretical Informatics Symposium (LATIN) 2018
- The 21st International Conference on Database Theory (ICDT) 2018
- The 49th ACM Symposium on Theory of Computing (STOC) 2017
- The 29th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2017
- The 44th International Colloquium on Automata, Languages, and Programming (ICALP) 2017
- The 48th ACM Symposium on Theory of Computing (STOC) 2016
- The 43rd International Colloquium on Automata, Languages, and Programming (ICALP) 2016
- The 17th International Conference on Distributed Computing and Networking (ICDCN) 2016
- The 19th International Conference on Principles of Distributed Systems (OPODIS) 2015
- The 34th Annual ACM Symposium on Principles of Distributed Computing (PODC) 2015
- The 16th International Conference on Distributed Computing and Networking (ICDCN) 2015
- The 15th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2013
- The 20th International Colloquium on Structural Information and Communication Complexity (SIROCCO) 2013
- The 32nd Annual ACM Symposium on Principles of Distributed Computing (PODC) 2013
- The 32nd International Conference on Distributed Computing Systems (ICDCS) 2013
- The 8th ACM Workshop on Foundations of Mobile Computing (FOMC) 2012
- The 31st Annual ACM Symposium on Principles of Distributed Computing (PODC) 2012
- The 31st International Conference on Distributed Computing Systems (ICDCS) 2012
- The 13th International Conference on Distributed Computing and Networking (ICDCN) 2012
- The 25th International Symposium on Distributed Computing (DISC) 2011

Grant Reviews:

- Israel Science Foundation (ISF)
- Binational Science Foundation (BSF)

Journal Reviews:

Journal of the ACM (JACM), ACM Transactions on Computer Systems (TOCS), Journal of Parallel and Distributed Computing (JPDC), Distributed Computing Journal, SIAM Journal on Computing (SICOMP), Information and Computation, Journal of Computer and System Sciences (JCSS), Theory of Computing Systems, Algorithmica

Conference Reviews:

IEEE Symposium on Foundations of Computer Science (FOCS), European Symposium on Algorithms (ESA), ACM-SIAM Symposium on Discrete Algorithms (SODA), ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), ACM Symposium on Principles of Distributed Computing (PODC), ACM Symposium on

Theory of Computing (STOC), International Symposium on Distributed Computing (DISC), International Colloquium on Automata, Languages and Programming (ICALP), International Colloquium on Structural Information and Communication Complexity (SIROCCO), International Conference on Principles of Distributed Systems (OPODIS), ACM Workshop on Foundations of Mobile Computing (FOMC), International Conference on Distributed Computing Systems (ICDCS), International Conference on Distributed Computing and Networking (ICDCN), IEEE Transactions on Information Theory, Symposium on Theoretical Aspects of Computer Science (STACS)

Awards and Honors

2016: Excellent Teaching Award for Spring Semester 2016, Technion.
2016: Krill Prize, Wolf Foundation
2015: Excellent Teaching Award for Winter Semester 2014-5, Technion.
2013: Alon Fellowship, awarded by the Israeli Academy of Science
2012: Shalon Career Advancement Chair, Technion
2012: The Principles of Distributed Computing Doctoral Dissertation Award 2012
2010: Simons Postdoctoral Fellowship, CSAIL, MIT, for the years 2010-2012
Rothschild Postdoctoral Fellowship, Yad Hanadiv, for the year 2010-2011 (declined)

Students

Michal Dory, PhD
Ami Paz, PhD
Seri Khoury, MSc

Past Students

Gregory Schwartzman, PhD 2017: Algorithms for Environments with Uncertainty.
Rina Levy, MSc (co-advised with Hadas Shachnai) 2017.
Tariq Toukan, MSc 2015: Fault-Tolerant Information Spreading Algorithms.

Teaching

Spring 2017: Lecturer in the course “Distributed Graph Algorithms”.
Spring 2016: Lecturer in the course “Distributed Graph Algorithms”, Technion. Received **Excellent Teaching Award**.
Spring 2015, Winter 2015-6, Winter 2016-7: Lecturer in the course “Seminar in Distributed Graph Algorithms”, Technion
Winter 2014-5: Lecturer in the course “Logic and Set Theory for CS”, Technion. Received **Excellent Teaching Award**.

Winter 2013-4, Winter 2015-6, Winter 2016-7: Lecturer in the course “Logic and Set Theory for CS”, Technion
 Spring 2013: Lecturer in the course “Mathematical Techniques in the Theory of Distributed Computing”, Technion
 Spring 2011: Lecturer (together with Nancy Lynch) in the course “Distributed Algorithms: New Topics and Techniques”, MIT
 2008-2009: Teaching assistant **in charge** in the course “Logic and Set Theory for Computer Science”, Technion
 Winter 2006-7, Spring 2008: Teaching assistant in the course “Distributed Algorithms B”, Technion
 2003-Spring 2006, 2007: Teaching assistant in the course “Logic and Set Theory for Computer Science”, Technion
 My tutorials have been videotaped for the Technion video library.

Grants

ISF (Israel Science Foundation) Individual Research Grant 1696/14.
 NSF-BSF Grant 2015803, with Bernhard Haeupler, CMU.

Invited Talks

“New Lower Bounds for the Congest Model”
 The 8th Bertinoro Workshop on Algorithms and Data Structures (ADS), June 2017

“The Landscape of Lower Bounds for the Congest Model”
 The 23rd International Colloquium on Structural Information and Communication Complexity (SIROCCO 2016),
 July 2016

“Optimal Dynamic Distributed MIS”,
 8th Israel CS Theory Day, Open University, December 2015
 Weizmann Institute, April 2016
 Colloquium of the Department of Mathematics, Technion, April 2016
 Colloquium of the Department of Electrical Engineering, Technion, May 2017
 Bar-Ilan University, May 2017
 Ben-Gurion University, June 2017

“Tight Bounds for Vertex Connectivity after Sampling”,
 The 7th Bertinoro Workshop on Algorithms and Data Structures (ADS), June 2015

“Are Lock-Free Algorithms Practically Wait-Free?”,
 5th Annual Henry Taub International TCE Conference, Technion, June 2015

“Algebraic Methods in the Congested Clique”,
 University of Calgary, March 2015
 BIRS, March 2015

“Distributed Algorithms as Combinatorial Graph Structures”,
 Workshop on Advances in Distributed Graph Algorithms (ADGA), October 2014
 Yahoo! Research Lab Haifa, October 2014
 Nexus of Information and Computation Theories, Distributed Computation and Communication Theme, The Henri
 Poincare Institute (IHP), February 2016
 TU Vienna, February 2016

“Distributed Connectivity Decomposition”,
Tel-Aviv University, July 2014
Workshop on Randomized Network Algorithms, July 2014

“A New Perspective on Vertex Connectivity”,
Tel-Aviv University, May 2013
The 6th Bertinoro Workshop on Algorithms and Data Structures (ADS), June 2013
Social Network Workshop, July 2013
Bar-Ilan University, December 2013

“Connected Dominating Set Packings”,
Dagstuhl, January 2013

“Information Spreading in Distributed Systems”,
Mini-course, The 1st Latin American Theoretical Informatics School, April 2012

“Polylogarithmic Snapshots”,
BIRS, February 2012

“Fast Distributed Computing Despite Poor Connectivity”,
Weizmann Institute, January 2012
Technion, January 2012
Tel-Aviv University, January 2012
The Hebrew University, January 2012
Ben-Gurion University, January 2012
MIT, February 2012
Harvard, February 2012

“Fast Information Spreading in Graphs with Large Weak Conductance”,
MIT, November 2010
University of Toronto, November 2010
MIT, September 2010

“Partial Information Spreading with Application to Distributed Maximum Coverage”,
Weizmann Institute, July 2010

“Max Registers, Counters, and Monotone Circuits”,
CS Department Technion, January 2010

“Approximate Shared-Memory Counting Despite a Strong Adversary”,
ETH, June 2009
EE Department Technion, March 2009
Microsoft Research Silicon Valley, February 2009

“Lower Bounds for Asynchronous Randomized Consensus”,
BIRS, January 2009

“Lower Bounds for Randomized Consensus under a Weak Adversary”,
Yale University, August 2008

“Tight Bounds for Asynchronous Randomized Consensus”,
Yale University, June 2007

Publications

Editorials

- [1] Keren Censor-Hillel and Valerie King (Eds.) Proceedings of the 9th International Workshop on Foundations of Mobile Computing (FOMC), Jerusalem, Israel, October 17-18, 2013. EPTCS 132, 2013.

Journal Articles

- [1] James Aspnes, Keren Censor-Hillel and Eitan Yaakobi. Concurrent use of write-once memory. Submitted.
- [2] Keren Censor-Hillel, Eldar Fischer, Gregory Schwartzman and Yadu Vasudev. Fast Distributed Algorithms for Testing Graph Properties. Submitted.
- [3] Keren Censor-Hillel, Telikepalli Kavitha, Ami Paz and Amir Yehudayoff. Distributed Construction of Purely Additive Spanners. Submitted.
- [4] Keren Censor-Hillel, Erez Kantor, Nancy Lynch and Merav Parter. Computing in Additive Networks with Bounded-Information Codes. Submitted.
- [5] Keren Censor-Hillel and Tariq Toukan. On Fast and Robust Information Spreading in the Vertex-Congestion Model. Submitted.
- [6] Keren Censor-Hillel, Erez Petrank and Shahar Timnat. Help! Submitted.
- [7] James Aspnes and Keren Censor-Hillel. Atomic Snapshots in $O(\log^3 n)$ Steps using Randomized Helping. Submitted.
- [8] Keren Censor-Hillel, George Giakkoupis, Mohsen Ghaffari, Bernhard Haeupler, and Fabian Kuhn. Tight Bounds on Vertex Connectivity under Sampling. *Transactions on Algorithms (TALG)*, accepted.
- [9] Reuven Bar-Yehuda, Keren Censor-Hillel and Gregory Schwartzman. A Distributed $(2 + \epsilon)$ -Approximation for Vertex Cover in $O(\log \Delta / \epsilon \log \log \Delta)$ Rounds. *Journal of the ACM (JACM)*, accepted.
- [10] Keren Censor-Hillel, Petteri Kaski, Janne H. Korhonen, Christoph Lenzen, Ami Paz and Jukka Suomela. Algebraic Methods in the Congested Clique. Accepted to Distributed Computing.
- [11] Keren Censor-Hillel, Bernhard Haeupler, Jonathan Kelner, and Petar Maymounkov. Rumor Spreading with No Dependence on Conductance. *SIAM Journal on Computing (SICOMP)*, Volume 46, Issue 1, pages 58-79, 2017.
- [12] Dan Alistarh, Keren Censor-Hillel, and Nir Shavit. Are Lock-Free Concurrent Algorithms Practically Wait-Free? Accepted to the Journal of the ACM (JACM). *Journal of the ACM (JACM)*, 63(4): 31:1-31:20 (2016).
- [13] James Aspnes, Hagit Attiya, Keren Censor-Hillel and Danny Hendler. Lower bounds for restricted-use objects. *SIAM Journal on Computing (SICOMP)*, 45(3): 734-762 (2016).
- [14] Giuseppe Bianchi, Lorenzo Bracciale, Keren Censor-Hillel, Andrea Lincoln, and Muriel Médard. The One-out-of-k Retrieval Problem and Linear Network Coding. *Advances in Mathematics of Communications (AMC)*, Vol. 10, no. 1, February 2016.
- [15] Keren Censor-Hillel, Bernhard Haeupler, Nancy Lynch and Muriel Médard. Bounded-Contention Coding for the Additive Network Model. *Distributed Computing* 28(5): 297-308 (2015).
- [16] James Aspnes, Hagit Attiya, Keren Censor-Hillel and Faith Ellen. Limited-Use Atomic Snapshots with Polylogarithmic Step Complexity. *Journal of the ACM (JACM)*, 62(1): 3 (2015).

- [17] Dan Alistarh, James Aspnes, Keren Censor-Hillel, Seth Gilbert, and Rachid Guerraoui. Tight bounds for asynchronous renaming. *Journal of the ACM (JACM)*, 61(3), 2014.
- [18] Keren Censor-Hillel, Seth Gilbert, Fabian Kuhn, Nancy Lynch and Calvin Newport. Structuring Unreliable Radio Networks. *Distributed Computing (DC)*, Volume 27, Issue 1, pages 1-19, 2014.
- [19] Chen Avin, Michael Borokhovich, Keren Censor-Hillel and Zvi Lotker. Order Optimal Information Spreading Using Algebraic Gossip. *Distributed Computing (DC)*, Volume 26, Issue 2, pages 99-117, 2013.
- [20] Keren Censor-Hillel and Hadas Shachnai. Fast Information Spreading in Graphs with Large Weak Conductance. *SIAM Journal on Computing (SICOMP)*, 41(6): 1451-1465 (2012).
- [21] James Aspnes, Hagit Attiya and Keren Censor-Hillel. Polylogarithmic Concurrent Data Structures from Monotone Circuits. *Journal of the ACM (JACM)*, 59(1), 2012.
- [22] Hagit Attiya and Keren Censor. Lower bounds for randomized consensus under a weak adversary. *SIAM Journal on Computing (SICOMP)*, 39(8): 3885–3904, 2010.
- [23] James Aspnes, Hagit Attiya and Keren Censor. Combining shared coin algorithms. *Journal of Parallel and Distributed Computing (JPDC)*, Volume 70, Issue 3, pages 317–322, March 2010.
- [24] James Aspnes and Keren Censor. Approximate shared-memory counting despite a strong adversary. *ACM Transactions on Algorithms (TALG), SODA 2009 special issue*, Volume 6, Issue 2, March 2010.
- [25] Hagit Attiya and Keren Censor. Tight bounds for asynchronous randomized consensus. *Journal of the ACM (JACM)*, 55(5):1–26, 2008.
- [26] Keren Censor and Tuvi Etzion. The positive capacity region of two-dimensional run-length-constrained channels. *IEEE Transactions on Information Theory*, 52(11):5128–5140, 2006.

Conference Proceedings

- [1] Keren Censor-Hillel, Seri Khoury and Ami Paz: Quadratic and Near-Quadratic Lower Bounds for the CONGEST Model. Submitted.
- [2] Keren Censor-Hillel, Merav Parter and Gregory Schwartzman. Derandomizing Local Distributed Algorithms under Bandwidth Restrictions. Submitted.
- [3] Keren Censor-Hillel, Ran Gelles and Bernhard Haeupler. Making Asynchronous Distributed Computations Robust to Noise. Submitted.
- [4] Keren Censor-Hillel, Rina Levy and Hadas Shachnai. Fast Distributed Approximation for Max-Cut. Submitted.
- [5] Keren Censor-Hillel and Michal Dory. Distributed Approximation for Tree Augmentation. Submitted.
- [6] Keren Censor-Hillel and Michal Dory. Brief Announcement: Distributed Approximation for Tree Augmentation. In Proceedings of the 36th ACM Symposium on Principles of Distributed Computing (PODC), 2017, to appear.
- [7] Keren Censor-Hillel, Bernhard Haeupler, D. Ellis Hershkowitz and Goran Zuzic. Broadcasting in Noisy Radio Networks. In Proceedings of the 36th ACM Symposium on Principles of Distributed Computing (PODC), 2017, to appear.
- [8] Reuven Bar-Yehuda, Keren Censor-Hillel, Mohsen Ghaffari and Gregory Schwartzman. Distributed Approximation of Maximum Independent Set and Maximum Matching. In Proceedings of the 36th ACM Symposium on Principles of Distributed Computing (PODC), 2017, to appear.

- [9] Keren Censor-Hillel, Telikepalli Kavitha, Ami Paz and Amir Yehudayoff. Distributed Construction of Purely Additive Spanners. In Proceedings of the 30th International Symposium on Distributed Computing (DISC), pages 129–142, 2016.
- [10] Amir Abboud, Keren Censor-Hillel and Seri Khoury. Near-Linear Lower Bounds for Distributed Distance Computations, Even in Sparse Networks. In Proceedings of the 30th International Symposium on Distributed Computing (DISC), pages 29–42, 2016.
Best Student Paper Award.
- [11] Keren Censor-Hillel, Eldar Fischer, Gregory Schwartzman and Yadu Vasudev. Fast Distributed Algorithms for Testing Graph Properties. In Proceedings of the 30th International Symposium on Distributed Computing (DISC), pages 43–56, 2016.
- [12] James Aspnes, Keren Censor-Hillel and Eitan Yaakobi. Concurrent use of write-once memory. In Proceedings of the 23rd International Colloquium on Structural Information and Communication Complexity (SIROCCO), pages 127–142, 2016.
- [13] Reuven Bar-Yehuda, Keren Censor-Hillel and Gregory Schwartzman. A Distributed $(2 + \epsilon)$ -Approximation for Vertex Cover in $O(\log \Delta / \epsilon \log \log \Delta)$ Rounds. In Proceedings of the 35th ACM Symposium on Principles of Distributed Computing (PODC), pages 3–8, 2016.
Best Student Paper Award.
Invited to be submitted to the Special Issue of PODC 2016 in the Journal of the ACM (JACM).
- [14] Keren Censor-Hillel, Elad Haramaty and Zohar Karnin. Optimal Dynamic Distributed MIS. In Proceedings of the 35th ACM Symposium on Principles of Distributed Computing (PODC), pages 217–226, 2016.
- [15] Keren Censor-Hillel, Erez Kantor, Nancy Lynch and Merav Parter. Computing in Additive Networks with Bounded-Information Codes. In Proceedings of the 29th International Symposium on Distributed Computing (DISC), pages 405–419, 2015.
- [16] Keren Censor-Hillel and Tariq Toukan. On Fast and Robust Information Spreading in the Vertex-Congest Model. In Proceedings of the 22nd International Colloquium Structural Information and Communication Complexity (SIROCCO), pages 270–284, 2015.
Invited to be submitted to the Special Issue of SIROCCO 2015 in Theoretical Computer Science (TCS).
- [17] Keren Censor-Hillel, Erez Petrank and Shahar Timnat. Help! In Proceedings of the 34th ACM Symposium on Principles of Distributed Computing (PODC), pages 241–250, 2015.
Invited to be submitted to the Special Issue of PODC 2015 in Distributed Computing (DC).
- [18] Keren Censor-Hillel, Petteri Kaski, Janne H. Korhonen, Christoph Lenzen, Ami Paz and Jukka Suomela. Algebraic Methods in the Congested Clique. In Proceedings of the 34th ACM Symposium on Principles of Distributed Computing (PODC), pages 143–152, 2015.
Invited to be submitted to the Special Issue of PODC 2015 in Distributed Computing (DC).
- [19] Keren Censor-Hillel, George Giakkoupis, Mohsen Ghaffari, Bernhard Haeupler, and Fabian Kuhn. Tight Bounds on Vertex Connectivity under Vertex Sampling. In *Proceedings of the 26th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*, pages 2006–2018, 2015.
Invited to be submitted to the Special Issue of SODA 2015 in Transactions on Algorithms (TALG).
- [20] Giuseppe Bianchi, Lorenzo Bracciale, Keren Censor-Hillel, Andrea Lincoln, and Muriel Médard. The One-out-of-k Retrieval Problem and Linear Network Coding. The 4th International Castle Meeting on Coding Theory and Applications (4ICMCTA), 2014.
- [21] Keren Censor-Hillel, Mohsen Ghaffari, and Fabian Kuhn. Distributed Connectivity Decomposition. In *Proceedings of the 33rd ACM Symposium on Principles of Distributed Computing (PODC)*, pages 156–165, 2014.

Best Student Paper Award.

Invited to be submitted to the Special Issue of PODC 2014 in the Journal of the ACM (JACM).

- [22] Dan Alistarh, Keren Censor-Hillel, and Nir Shavit. Are Lock-Free Concurrent Algorithms Practically Wait-Free? In *Proceedings of the 46th symposium on Theory of Computing (STOC)*, pages 714–723, 2014. Brief announcement in *Proceedings of the 33rd ACM Symposium on Principles of Distributed Computing (PODC)*, pages 50–52, 2014.
- [23] Keren Censor-Hillel, Mohsen Ghaffari, and Fabian Kuhn. A New Perspective on Vertex Connectivity. In *Proceedings of the 25th annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*, pages 546–561, 2014.
- [24] James Aspnes and Keren Censor-Hillel. Atomic Snapshots in $O(\log^3 n)$ Steps using Randomized Helping. In *Proceedings of the 27th International Symposium on Distributed Computing (DISC)*, pages 254–268, 2013.
- [25] Keren Censor-Hillel, Bernhard Haeupler, Nancy Lynch, and Muriel Médard. Bounded-Contention Coding for Wireless Networks in the High SNR Regime. In *Proceedings of the 26th International Symposium on Distributed Computing (DISC)*, pages 91–105, 2012.
- [26] James Aspnes, Hagit Attiya, Keren Censor-Hillel and Faith Ellen. Faster than Optimal Snapshots (for a While). In *Proceedings of the 31st ACM Symposium on Principles of Distributed Computing (PODC)*, pages 375–384, 2012.
Invited to be submitted to the Special Issue of PODC 2012 in Distributed Computing (DC). Invitation declined.
- [27] James Aspnes, Hagit Attiya, Keren Censor-Hillel and Danny Hendler. Lower bounds for restricted-use objects. In *Proceedings of the 24th ACM symposium on Parallelism in algorithms and architectures (SPAA)*, pages 172–181, 2012.
- [28] Keren Censor-Hillel, Bernhard Haeupler, Jonathan Kelner and Petar Maymounkov. Global computation in a poorly connected world: fast rumor spreading with no dependence on conductance. In *Proceedings of the 44th symposium on Theory of Computing (STOC)*, pages 961–970, 2012.
- [29] Keren Censor-Hillel, Seth Gilbert, Fabian Kuhn, Nancy Lynch and Calvin Newport. Structuring Unreliable Radio Networks. In *Proceedings of the 30th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 79–88, 2011.
- [30] Dan Alistarh, James Aspnes, Keren Censor-Hillel, Seth Gilbert and Morteza Zadimoghaddam. Optimal-Time Adaptive Tight Renaming, with Applications to Counting. In *Proceedings of the 30th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 239–248, 2011.
- [31] Chen Avin, Michael Borokhovich, Keren Censor-Hillel and Zvi Lotker. Order Optimal Information Spreading Using Algebraic Gossip. In *Proceedings of the 30th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 363–372, 2011.
- [32] Keren Censor-Hillel and Hadas Shachnai. Fast Information Spreading in Graphs with Large Weak Conductance. In *Proceedings of the 22nd annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*, pages 440–448, 2011.
- [33] Keren Censor Hillel and Hadas Shachnai. Partial Information Spreading with Application to Distributed Maximum Coverage. In *Proceedings of the 29th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 161–170, 2010.
- [34] Keren Censor Hillel. Multi-Sided Shared Coins and Randomized Set-Agreement. In *Proceedings of the 22nd ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)*, pages 60–68, 2010.

- [35] James Aspnes, Hagit Attiya and Keren Censor. Max registers, counters, and monotone circuits. In *Proceedings of the 28th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 36–45, 2009.
Best Student Paper Award
Invited to be submitted to the Special Issue of PODC 2009 in Distributed Computing (DC). Invitation declined.
- [36] James Aspnes and Keren Censor. Approximate shared-memory counting despite a strong adversary. In *Proceedings of the 20th annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*, pages 441–450, 2009.
- [37] Hagit Attiya and Keren Censor. Lower bounds for randomized consensus under a weak adversary. In *Proceedings of the 27th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 315–324, 2008.
- [38] James Aspnes, Hagit Attiya and Keren Censor. Randomized consensus in expected $O(n \log n)$ individual work. In *Proceedings of the 27th ACM Symposium on Principles of Distributed Computing (PODC)*, pages 325–334, 2008.
- [39] Hagit Attiya and Keren Censor. Tight bounds for asynchronous randomized consensus. In *Proceedings of the 39th annual ACM Symposium on Theory of Computing (STOC)*, pages 155–164, 2007.
- [40] Keren Censor and Tuvi Etzion. The positive capacity region of two-dimensional run-length-constrained channels. In *IEEE International Symposium on Information Theory (ISIT)*, pages 155–164, 2006.

Additional Publications

- [1] Keren Censor-Hillel. Distributed Algorithms as Combinatorial Structures. SIGACT News 46(1): 63-76, 2015.
- [2] Keren Censor and Christoph Lenzen. A Review of PODC 2009. SIGACT News, Volume 40 No.4, pages 71–74, 2009.

Theses

- [1] Keren Censor Hillel. Probabilistic Methods in Distributed Computing. *Technical Report PHD-2010-10*, Technion, 2010.
- [2] Keren Censor. Constrained Codes for Two-Dimensional Channels. *Technical Report MSC-2006-11*, Technion, 2006.

Additional Research Team Publications

- [1] Ami Paz and Gregory Schwartzman. A $(2 + \epsilon)$ -Approximation for Maximum Weight Matching in the Semi-Streaming Model. Accepted to the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2017.
Best Student Paper Award
Best Paper Award
Invited to be submitted to the Special Issue of SODA 2017 in Transactions on Algorithms (TALG).