Keren Censor-Hillel

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Employment

2024 - present: Full Professor at the Technion

2018 - 2024: Associate Professor at the Technion

2013 - 2018: 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*.

International Activities

ACM Special Interest Group on Algorithms and Computation Theory (SIGACT), member
Interest Group on Algorithmic Foundations of Information Technology (IGAFIT), member
IGAFIT Workshop for Postdoctoral Researchers in Algorithms (AlgPiE), academic board member
IGAFIT panel on ERC grants, 2021
Women in Algorithms Panel, HALG 2021
Ask-Me-Anything session, DISC 2020
Junior-Senior meetings, WOLA 2020

National Activities

Past member of the mid-career forum of women professors in Israel

Talk at the Summer Seminar for leading School Teachers in Computer Science, National Center for Computer Science Teachers (2018)

Technion Activities

Member of the Senate (2024-present)
Graduate School Award Committee (2019-2022)
Rothschild Excellence Program Committee (2018, 2021)
Rothschild Excellence Program Talk (2021)
Co-Organizer of the Technion Distributed Computing Seminar

Department Activities:

2013-2018: Faculty member in charge of encouraging diversity, Department of Computer Science, Technion.
2016-2018: Member of the Curriculum Committee, Department of Computer Science, Technion.
2016-2023: Member of the Search Committee, Department of Computer Science, Technion.
2018-2023: Member of the Graduate Studies Committee, Department of Computer Science, Technion.
2023-present: Vice Dean for Teaching

Review and Grant/Award Panel Activities

Award Committee Member:

2026 Edsger W. Dijkstra Prize in Distributed Computing

2026 SIROCCO Prize for Innovation in Distributed Computing **(chair)**

2025 SIROCCO Prize for Innovation in Distributed Computing **(chair)**

2022 Principles of Distributed Computing Doctoral Dissertation Award

2021 Edsger W. Dijkstra Prize in Distributed Computing **(chair)**

Grant Panel Member:

Israel Science Foundation (ISF).

National Science Foundation (NSF).

Binational Science Foundation (BSF).

Binational Science Foundation (BSF) Student Travel Grants.

Journal Editorial Board:

SIAM Journal on Computing (SICOMP), 2020-present.

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

Theoretical Computer Science (TCS), Elsevier, 2016-2021.

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

Steering Committee Chair:

The International Colloquium on Structural Information and Communication Complexity (SIROCCO) 2023-present.

Steering Committee Member:

International Symposium on Distributed Computing (DISC) 2026-present.

Highlights of Algorithms (HALG) 2021-present.

The ACM Symposium on Principles of Distributed Computing (PODC) 2020-present.

The International Colloquium on Structural Information and Communication Complexity (SIROCCO), 2019-present.

AlgPie by IGAFIT (2019-present)

International Symposium on Distributed Computing (DISC), member-at-large, 2013-2017 (two 2-year terms).

Program Committee Chair:

The 40th International Symposium on Distributed Computing (DISC) 2026

The 52nd International Colloquium on Automata, Languages, and Programming (ICALP) 2025 (co-chair)

Graph Algorithms: Distributed Meets Dynamic (Dagstuhl Seminar 24471) 2024, (co-chair)

The 6th Highlights of Algorithms (HALG) 2022

The 40 Annual ACM Symposium on Principles of Distributed Computing (PODC) 2021

The 20th International Conference on Distributed Computing and Networking (ICDCN) 2020, Distributed Computing Track

The 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO) 2019 (co-chair)

The 38th IEEE International Conference on Distributed Computing Systems (ICDCS) 2018

Distributed Algorithms & Theory Track (co-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 40th International Symposium on Distributed Computing (DISC) 2026

The 52nd International Colloquium on Automata, Languages, and Programming (ICALP) 2025

The 7th Symposium on Simplicity in Algorithms (SOSA) 2024

The 36th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2024

The 55th ACM Symposium on Theory of Computing (STOC) 2023

The 63rd IEEE Symposium on Foundations of Computer Science (FOCS) 2022

The 41st Annual ACM Symposium on Principles of Distributed Computing (PODC) 2022

The 6th Highlights of Algorithms (HALG) 2022

The first Symposium on Algorithmic Foundations of Dynamic Networks (SAND) 2022

The 33rd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA) 2022

The 40th Annual ACM Symposium on Principles of Distributed Computing (PODC) 2021

The 34th International Symposium on Distributed Computing (DISC) 2020

The 4th Workshop on Local Algorithms (WOLA) 2020

The 47th International Colloquium on Automata, Languages, and Programming (ICALP) 2020

The 20th International Conference on Distributed Computing and Networking (ICDCN) 2020

The 33th International Symposium on Distributed Computing (DISC) 2019

The 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO) 2019

The 38th IEEE International Conference on Distributed Computing Systems (ICDCS) 2018

Distributed Algorithms & Theory Track

The 13th Latin American Theoretical Informatics Symposium (LATIN) 2018

The 1st Symposium on Simplicity in Algorithms (SOSA) 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:

European Research Council (ERC)

Israel Science Foundation (ISF)

Binational Science Foundation (BSF)

National Science Centre, Poland (NCN)

National Agency for Research and Development, Chile (ANID)

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)

Grants

2023: ISF (Israel Science Foundation) Individual Research Grant 529/23.

2017: ERC Starting Grant, BANDWIDTH 755839.

2016: NSF-BSF Grant 2015803, with Bernhard Haeupler, CMU.

2014: ISF (Israel Science Foundation) Individual Research Grant 1696/14.

Awards and Honors

2019: Yanai Prize for Excellence in Academic Education, Technion.

2018: Henry Taub Prize for Academic Excellence, Technion.

2017: The Marker's list of "40 Under 40"

2017: Excellent Teaching Award for Spring Semester 2017, Technion.

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

Tomer Even, PhD

Julian Ewaied, MSc

Past Postdocs

Fabien Dufoulon (Co-hosted with Shay Kutten)

Yannic Maus

Tigran Tonoyan

Past Students

Einav Huberman, MSc 2025: Near-Optimal Resilient Labeling Schemes

Majd Khoury, MSc 2023: Distributed Distance Approximation of Graph Properties

Dean Leitersdorf, PhD 2022: Fast Distributed Algorithms via Sparsity Awareness

Noa Marelly, MSc 2021: (co-advised with Roy Schwartz) Fault Tolerant Max-Cut

Shahar Romem Peled, MSc 2021: Batched Vertex Cover Reconfiguration

Volodymyr Poloshukhin, MSc 2021: Distributed computations with global edges of limited bandwidth

Michal Dory, PhD 2020: Distributed Network Design

Yuval Efron, MSc 2020: New Advances in Distributed Optimization and Distance Computation

Matthias Bonne, MSc 2019: Distributed Detection of Cliques in Dynamic Networks

Seri Khoury, MSc 2018: New Lower Bounds for the CONGEST Model.

Ami Paz, PhD 2017: Distributed Distance Computation and Related Topics.

Gregory Schwartzman, PhD 2017: Algorithms for Environments with Uncertainty.

Rina Levy, MSc 2017 (co-advised with Hadas Shachnai): Fast Distributed Approximation for Max-Cut.

Tariq Toukan, MSc 2015: Fault-Tolerant Information Spreading Algorithms.

Past Interns

Yuka Machino, MIT (2022): paper in SIROCCO 2023 (**Best Student Paper Award**).

David A. Vulakh, MIT (2021): paper in PODC 2022.

Shreyas Pai, University of Iowa (2019): paper in PODC 2020.

Alberto Ancona, MIT (2019): paper in OPODIS 2020.

Teaching

Winter 2019-20 – present: Lecturer in the course "Logic for CS".

Winter 2018-9: Lecturer in the course "Sublinear Algorithms and Complexity in P".

Spring 2017 – present: 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 2018-9: 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.

Invited Talks

"Distributed Subgraph Finding"
Invited talk, 14th Workshop on Advances in Distributed Graph Algorithms (ADGA), October 2025

"Distributed Subgraph Finding: Known and New"
Invited talk, 11th French-Israeli Workshop on Foundations of Computer Science (FILOFOCS), April 2024

"Distributed Subgraph Finding: Progress and Challenges"
Keynote talk, The 48th International Colloquium on Automata, Languages, and Programming (ICALP), July 2021
Foundations of Computer Science Colloquium, Weizmann, June 2021

Invited talk at the 2020 bi-annual Women in Theory (WIT) workshop (https://womenintheory.wordpress.com). This workshop is intended for graduate and exceptional undergraduate students in the area of theory of computer science. It features technical talks and tutorials by senior and junior women in the field, as well as social events and activities. It was postponed due to the COVID-19 situation, and instead, a group of women professors joined to create a video: https://www.youtube.com/watch?v=4Wl-3kadvgw.

"Distributed Optimization And Approximation: How Difficult Can It Be?"
Keynote talk, The 23rd International Conference on Principles of Distributed Systems (OPODIS), December 2019

"Three Challenges in Distributed Optimization"
Invited talk, The 3rd Workshop on Local Algorithms (WOLA), July 2019

"Locally Fixable Labelings"
Invited talk, The 9th Bertinoro Workshop on Algorithms and Data Structures (ADS), June 2019

"A Tale of 3 matrices"
Invited talk, DIMAP Workshop on Advances in Modern Graph Algorithms, April 2019

"Distributed Spanner Approximation"
Invited talk, The 7th French-Israeli Workshop on Foundations of Computer Science (FILFOCS), October 2018

"Barriers due to Congestion and Two Ways to Deal With Them"
Keynote talk, The ACM Symposium on Principles of Distributed Computing (PODC), July 2018

"Distributed Property Testing"
Invited talk, "18th Haifa Workshop on InterDisciplinary Applications of Graphs, Combinatorics and Algorithms", May 2018
Invited talk, "Formal Methods and Fault-Tolerant Distributed Computing: Forging an Alliance", Dagstuhl Seminar, Germany, May 2018

"Lower Bounds under Bandwidth Limitations"
Workshop on Algorithms for Big Data, TAU, November 2017

"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, Fabrizio Grandoni, Joël Ouaknine, Gabriele Puppis (Eds.) Proceedings of the 52nd International Colloquium on Automata, Languages, and Programming (ICALP). LIPIcs 334, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2025.

[2] Keren Censor-Hillel, Yasamin Nazari, Eva Rotenberg, Thatchaphol Saranurak, Martín Costa (Eds.) Graph Algorithms: Distributed Meets Dynamic (Dagstuhl Seminar 24471). Dagstuhl Reports 14(11): 92-107 (2024)

[3] Avery Miller, Keren Censor-Hillel, Janne H. Korhonen (Eds.) Proceedings of the 40th ACM Symposium on Principles of Distributed Computing (PODC). ACM, 2021.

[4] Keren Censor-Hillel and Michele Flammini (Eds.) Proceedings of the 26th International Colloquium on Structural Information and Communication Complexity (SIROCCO). Lecture Notes in Computer Science 11639, Springer 2019.

[5] 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] Keren Censor-Hillel, Dean Leitersdorf, David Vulakh. Deterministic near-optimal distributed listing of cliques. *Distributed Comput. 37(4): 363-385 (2024)*

[2] Keren Censor-Hillel, Shir Cohen, Ran Gelles, Gal Sela. Distributed Computation in Fully Defective Networks. Distributed Comput. 36(4): 501-528 (2023). Erratum: Correction to: Distributed Computation in Fully Defective Networks. Distributed Comput. 36(4): 529 (2023).

[3] Keren Censor-Hillel, Michal Dory, Janne H. Korhonen, and Dean Leitersdorf. Fast approximate shortest paths in the congested clique. *Distributed Comput. 34(6): 463-487 (2021).*

[4] Amir Abboud, Keren Censor-Hillel, Seri Khoury and Ami Paz. Smaller Cuts, Higher Lower Bounds. *ACM Trans. Algorithms 17(4): 30:1-30:40 (2021).*

[5] Keren Censor-Hillel, Michal Dory: Distributed Spanner Approximation. *SIAM J. Comput. (SICOMP) 50(3): 1103-1147 (2021).*

[6] Keren Censor-Hillel, Michal Dory: Fast distributed approximation for TAP and 2-edge-connectivity. *Distributed Computing (DC)* 33(2): 145-168 (2020).

[7] Keren Censor-Hillel, Merav Parter, Gregory Schwartzman: Derandomizing local distributed algorithms under bandwidth restrictions. *Distributed Computing (DC)* 33(3-4): 349-366 (2020).

[8] Amir Abboud, Keren Censor-Hillel, Seri Khoury and Christoph Lenzen. Fooling Views: A New Lower Bound Technique for Distributed Computations under Congestion. *Distributed Computing (DC)* 33(6): 545-559 (2020).

[9] Keren Censor-Hillel, Mikaël Rabie: Distributed reconfiguration of maximal independent sets. *J. Comput. Syst. Sci. (JCSS)* 112: 85-96 (2020).

[10] Keren Censor-Hillel, Dean Leitersdorf, Elia Turner: Sparse matrix multiplication and triangle listing in the Congested Clique model. *Theor. Comput. Sci. (TCS)* 809: 45-60 (2020).

[11] Keren Censor-Hillel, Ami Paz, Noam Ravid. The sparsest additive spanner via multiple weighted BFS trees. *Theor. Comput. Sci. (TCS)*, 840: 33-44 (2020).

[12] Keren Censor-Hillel, Ami Paz and Mor Perry. Approximate Proof-Labeling Schemes. *Theor. Comput. Sci. (TCS)*, 811: 112-124 (2020).

[13] Keren Censor-Hillel, Petteri Kaski, Janne H. Korhonen, Christoph Lenzen, Ami Paz and Jukka Suomela. Algebraic Methods in the Congested Clique. *Distributed Computing (DC)*, 32(6): 461-478 (2019).

[14] Keren Censor-Hillel, Ran Gelles, Bernhard Haeupler: Making asynchronous distributed computations robust to noise. *Distributed Computing (DC)* 32(5): 405-421 (2019)

[15] Keren Censor-Hillel, Eldar Fischer, Gregory Schwartzman and Yadu Vasudev. Fast Distributed Algorithms for Testing Graph Properties. *Distributed Computing (DC)*, 32(1): 41-57 (2019).

[16] Keren Censor-Hillel, Telikepalli Kavitha, Ami Paz and Amir Yehudayoff. Distributed Construction of Purely Additive Spanners. *Distributed Computing (DC)*, 31(3): 223-240 (2018).

[17] Keren Censor-Hillel and Tariq Toukan. On Fast and Robust Information Spreading in the Vertex-Congestion Model. *Theor. Comput. Sci. (TCS)* 751: 74-90 (2018).

[18] James Aspnes, Keren Censor-Hillel and Eitan Yaakobi. Concurrent use of write-once memory. *J. Parallel Distrib. Comput. (JPDC)* 113: 250-260 (2018)

[19] Keren Censor-Hillel, George Giakkoupis, Mohsen Ghaffari, Bernhard Haeupler, and Fabian Kuhn. Tight Bounds on Vertex Connectivity under Sampling. *ACM Transactions on Algorithms (TALG)*, 13(2): 19:1-19:26 (2017).

[20] 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)*, 64(3): 23:1-23:11 (2017).

[21] 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.

[22] 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).

[23] 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).

[24] 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.

[25] 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).

[26] 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).

[27] 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.

[28] 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.

[29] 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.

[30] 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).

[31] James Aspnes, Hagit Attiya and Keren Censor-Hillel. Polylogarithmic Concurrent Data Structures from Monotone Circuits. *Journal of the ACM (JACM)*, 59(1), 2012.

[32] Hagit Attiya and Keren Censor. Lower bounds for randomized consensus under a weak adversary. *SIAM Journal on Computing (SICOMP)*, 39(8): 3885–3904, 2010.

[33] 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.

[34] 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.

[35] Hagit Attiya and Keren Censor. Tight bounds for asynchronous randomized consensus. *Journal of the ACM (JACM)*, 55(5):1–26, 2008.

[36] 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.

Peer-Reviewed Conference Proceedings

[1] Ran Ben Basat, Keren Censor-Hillel, Yi-Jun Chang, Wenchen Han, Dean Leitersdorf, Gregory Schwartzman. Bounded Memory in Distributed Networks. In Proceedings of the ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), 2025.

[2] Keren Censor-Hillel, Tomer Even, Virginia Vassilevska Williams. Output-Sensitive Approximate Counting via a Measure-Bounded Hyperedge Oracle, or: How Asymmetry Helps Estimate k-Clique Counts Faster. In Proceedings of the Annual ACM Symposium on Theory of Computing (STOC), 2025.

[3] Keren Censor-Hillel, Orr Fischer, Ran Gelles, Pedro Soto. Two for One, One for All: Deterministic LDC-Based Robust Computation in Congested Clique. In Proceedings of the 39th International Symposium on Distributed Computing (DISC), 2025.
Invited to be submitted to the Special Issue of DISC 2025 in Distributed Computing (DC).

[4] Keren Censor-Hillel, Pedro Soto. Computing in a Faulty Congested Clique. In Proceedings of the 29th International Conference on Principles of Distributed Systems (OPODIS), 2025.

[5] Keren Censor-Hillel, Tomer Even, Maxime Flin, Magnús M. Halldórsson. When MIS and Maximal Matching are Easy in the Congested Clique. In Proceedings of the 32nd International Colloquium On Structural Information and Communication Complexity (SIROCCO), 2025.

[6] Keren Censor-Hillel, Einav Huberman. Near-Optimal Resilient Labeling Schemes. In Proceedings of the 28th International Conference on Principles of Distributed Systems (OPODIS), 2024.

[7] Keren Censor-Hillel, Tomer Even, Virginia Vassilevska Williams. Faster Cycle Detection in the Congested Clique. In Proceedings of the 38th International Symposium on Distributed Computing (DISC), 2024.

[8] Keren Censor-Hillel, Tomer Even, Virginia Vassilevska Williams. Fast Approximate Counting of Cycles. In Proceedings of the 51st EATCS International Colloquium on Automata, Languages, and Programming (ICALP), 2024.

[9] Keren Censor-Hillel, Majd Khoury. On Distributed Computation of the Minimum Triangle Edge Transversal. In Proceedings of the 31st International Colloquium On Structural Information and Communication Complexity (SIROCCO), 2024.

[10] Keren Censor-Hillel, Yuka Machino, Pedro Soto. Near-Optimal Fault Tolerance for Efficient Batch Matrix Multiplication via an Additive Combinatorics Lens. In Proceedings of the 31st International Colloquium On Structural Information and Communication Complexity (SIROCCO), 2024.
Best Student Paper Award

[11] Keren Censor-Hillel, Dean Leitersdorf, and David Vulakh. Deterministic Near-Optimal Distributed Listing of Cliques. In Proceedings of the 41st ACM Symposium on Principles of Distributed Computing (PODC), pages 271-280, 2022.
Invited to be submitted to the Special Issue of PODC 2022 in Distributed Computing (DC).

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Additional Publications

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Theses

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Additional Research Team Publications (not co-authored by me)

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[19] Michal Dory and Merav Parter. Exponentially Faster Shortest Paths in the Congested Clique. PODC 2020.
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