

**CURRICULUM VITAE  
AND LIST OF PUBLICATIONS**  
January 2012

**Personal Details:**

Name: Shlomi (Shlomo) Dolev

Date and place of birth: 5/12/58, Israel.

Regular military service: From 13/2/77 until 12/8/80 (Captain).

Address and telephone number at work: Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel, Tel: 08-6472715, Fax: 08-6477650, Email: dolev@cs.bgu.ac.il.

Parent of: Noa, Yorai, Hagar and Eden.

**Education:**

Technion, Israel Institute of Technology, Haifa, Israel.

B.Sc. (Cum Laude), Civil Engineering, 1984.

B.A. (Cum Laude), Computer Science, 1985.

Received the Annual president's list award given for academic achievement, 1982,84.

Received the Annual dean's list award given for academic achievement 1981,83,85.

M.Sc., Computer Science, 1990.

Advisors: Dr. Amos Israeli and Prof. Shlomo Moran.

Title of thesis: "Self Stabilization of Dynamic Systems Assuming Read Write Atomicity".

Received the Miriam and Aaron Gutwirth scholarship for M.Sc. studies, 1989.

D.Sc., Computer Science, 1992.

Advisors: Prof. Shlomo Moran and Dr. Amos Israeli.

Title of thesis: "Self Stabilization of Distributed Dynamic Systems".

**Employment History (and visiting positions):**

2005- present: Tenured Professor, Ben-Gurion University of the Negev.

2000- (October) 2005: Tenured Associate Professor, Ben-Gurion University of the Negev.

1998-(April) 2000: Tenured Senior Lecturer, Ben-Gurion University of the Negev.

1997-(April) 1998: Senior Lecturer, Ben-Gurion University of the Negev.

1995-(April) 1997: Lecturer, Ben-Gurion University of the Negev.

July 2011: Visiting professor, Université de Paris-sud, Paris 11, visiting Prof. Joffroy Beauquier.

June 2009: Visiting Professor, LIP6, Paris 6, visiting Prof. Maria Gradinariu Potop-Butucaru.

April 2008: DIMACS Center for Discrete Mathematics & Theoretical Computer Science, visiting Dr. Juan Garay from Bell-Labs.

Summer 2005: Visiting scientist, MIT, with Prof. Nancy Lynch.

January 2005: Visiting scientist, Texas A&M University, visiting Prof. Jennifer Welch.

Summer 2004: Visiting scientist, MIT, with Prof. Nancy Lynch.

Summer 2003: Visiting scientist, MIT, with Prof. Nancy Lynch.

February 2003: Visiting Associate Professor, University of Texas, visiting Prof. Mohamed Gouda.  
 Summer 2002: Visiting Associate Professor, University of Iowa, visiting Prof. Ted Herman.  
 Summer 2002: Visiting scientist, Texas A&M University, with Prof. Jennifer Welch.  
 Summer 2000: Visiting scientist, MIT, with Prof. Nancy Lynch.  
 Summer 1999: Visiting scientist, Institute de Mathmatics, UNAM, with Prof. Sergio Rajsbaum.  
 Summer 1997: Visiting scientist, MIT, with Prof. Nancy Lynch.  
 Summer 1997: Visiting professor, Université Paris-sud, Paris 11, Laboratoire de Recherche en Informatique d'Orsay, visiting Prof. Joffroy Beauquier.  
 Summer 1996: DIMACS Center for Discrete Mathematics & Theoretical Computer Science, visiting Dr. Rafail Ostrovsky from Bellcore.  
 Summers 1994, 1995: Visiting research specialist with Prof. Evangelos Kranakis and Prof. Danny Krizanc, School of Computer Science, Carleton University.  
 1992-1995: Visiting research specialist, Post-Doc of Prof. Jennifer L. Welch, Department of Computer Science, Texas A&M University.  
 1987-1992: Research Assistant, Computer Science Department, Technion, Israel.  
 1985-1987: Software Engineer, Texel-Electronic Ltd, Tel-Aviv, Israel.

## **Professional Activities:**

### **(a) Positions in academic administration:**

1998-2000: Computer Science Coordinator and then the **head of the Computer Science Department**, Ben-Gurion Univ.  
 2000-2001: Head of the interfaculty school for computers and communication, Ben-Gurion Univ.  
 2000-present: Head of the Hi-Tech Building Design Team  
 2000-2006: Appointment Committee, Department of Computer Science  
 2001-2005: Appointment Committee, Faculty of Natural Sciences  
 2002-2004: University Computing Policy Committee  
 2002-present: University Distance Learning Committee  
 2004-present: Academic Israeli GRID, Steering Committee  
 2004-2007: Israel Council for Higher Education, Teleprocessing Committee  
 2004-present: Ben Gurion University Senate Member  
 2004-2010: Ben Gurion University Senate Executive Committee  
 2006-present: Ben Gurion University, Head of the Computing Salary Increase Committee for the Managing and the Technical Staff  
 2006-Present: Head of the Lynne and William Frankel center for computer sciences  
 2010-Present: **Chairman of the Inter University Computation Center of Israel**  
 2011-Present: **Dean of the Faculty of Natural Sciences**

### **(b) Editor of scientific of professional journal:**

*Chicago Journal of Theoretical Computer Science*, Guest Editor, MIT Press, Special issue on Self-Stabilization, 1996.

*Journal of Aerospace Computing, Information, and Communication*, Associate Editor, American Institute of Aeronautics and Astronautics (AIAA), 2003-present.

*Distributed Computing Journal*, Guest Editor, Special issue for DISC 2006.

*IEEE Transactions on Computers*, Associate Editor, 2007-present.

*Theoretical Computer Science*, Guest Editor, Special issue on Stabilization, Safety and Security, 2008.

*Applied Optics and the Journal of the Optical Society of America A (JOSA A)*, Guest Editor, special feature on Optical High-Performance Computing, 2008.

*International Journal of Distributed Sensor Networks*, Taylor & Francis, Associate Editor, 2009-2010.

*Theoretical Computer Science*, Guest Editor, Special issue for Algosensors 2009.

*Wireless Networks*, (WINET), Associate Editor, 2010-present.

*Information and Computation*, Guest Editor, Special issue on Stabilization, Safety and Security, 2010.

**(c) Membership in professional/scientific societies:**

1996-present, member, the Association for Computing Machinery

1997-present, senior member, the Institute of Electrical and Electronics Engineers

2003-present, member, American Institute of Aeronautics and Astronautics (AIAA)

**Educational activities:**

**(a) Course Taught:**

**Ben-Gurion University:** Communication Networks and Distributed Systems (mandatory for master studies), Data Structures (using a new book), Data Structures (using Cormen, Leiserson and Rivest), Introduction to Computer Science (first course that used Java), System Programming (videotaped), Self-Stabilizing Distributed Algorithms, Mathematical Models in Distributed Systems, Graduate Seminar, Final Projects.

**Texas A&M University** 1993-4: Analysis of Algorithms, Structured Programming in Pascal.

**Technion:** Logic Design Laboratory, Logic Design course (1991, single lecturer, 100 students).

**4th, 5th and 6th International Summer Schools on Distributed Computing,**

Courses on self-stabilization (invited),

Siena, Italy, June 1997, June 1999 and June 2001.

**MIT and Yale**, replaced Prof. Nancy Lynch and Prof. Michael Fischer (for two and one lectures, respectively) October 2003.

**DYNAMO, 2nd Training School on Algorithmic Aspects of Dynamic Networks**, Iceland, July 2008.

**(b) Research Students and Visitors:**

Post Docs:

PstD1. Dr. Diab Abuaiadh, PhD from University of Sydney, Australia, 1995.

PstD2. Dr. Stephane Messika, PhD from Ecole Normal Supérieure de Cachan, France, 2005.

PstD3. Dr. Guy Leshem, PhD from the Hebrew University, Israel, 2007.

PstD4. Dr. Olivier Peres, PhD from LRI Paris 11, France, 2008.

PstD5. Dr. Niv Gilboa, PhD Technion, 2009.

PstD6. Dr. Andrei Dolgin (with Michael Segal and Ohad Ben-Shahar), PhD Technion, 2009.

PhD Students:

PhD1. Elad Schiller, Ph.D., (M.Sc. and Ph.D. candidacy exam, 2001) “Self-Stabilizing Group Communication”, (published 3 articles for the PhD), received Kreitman and vattat fellowships, submitted thesis August 2004. Post doc with Nancy Lynch, Paul Spirakis, Sándor Fekete from September 2004. Now faculty member in the Computer Science and Engineering Department of Chalmers University, Sweden.

PhD2. Yinnon A. Haviv, Ph.D., “Self-Stabilizing Embedded Systems”, (published 3 articles for the PhD), received Intel award, best teaching awards, and vattat fellowship, submitted thesis October 2006. Now with IBM.

PhD3. Ronen Kat, Ph.D., “Self-Stabilizing Distributed Storage Systems”, (published 3 articles for the PhD), received Intel award, submitted thesis March 2007. Now with IBM research center.

PhD4. Reuven Yagel, Ph.D., (Ph.D. candidacy exam, May 2004) “Self-Stabilizing Operating Systems”, supported by Microsoft (published 4 articles for the PhD), Submitted thesis September 2007. Now with Jerusalem College of Engineering.

PhD5. Limor Lahiani, Ph.D, “Polygon Based Schemes for Sensor Networks”, received Intel award, (published 3 articles for the PhD), Submitted thesis April 2008. Now with Microsoft research.

PhD6. Nir Tzachar, Ph.D, “Self-Stabilizing and Self-Organizing Distributed Algorithms”, received support from Israeli Grid organization and received Intel award (published 2 articles submitted 1 article for the PhD), submitted thesis 2008. Now with computer science industry.

PhD7. Olga Brukman, Ph.D., “Autonomic Recoverer”, (published 3 articles for the PhD), received

EuroSys support, 2005, and SOSP support 2007, submitted thesis 2008. Now with computer science industry.

PhD8. Rami Puzis, “Optimization of Deployment Strategy for Distributed Electronic Threat Detection and Prevention Systems”, (together with Yuval Elovici, published 5 articles for the PhD), supported by Deutsche Telekom, submitted thesis, July 2009.

MSc Students:

MSc1. Dmitry Yukelson, M.Sc. “Guessing Games for Saving Energy in Mobile Environment,” January 1998. (published 1 article) Received Intel award, Now in Computer Science Industry.

MSc2. Alexander Kesselman, M.Sc. “Non-Preemptive Real-Time Scheduling of Multimedia Tasks,” (published 2 articles) May 1998. Received Intel award. PhD in Computer Science from Tel-Aviv University, post-doc Max-Planck, and Industry.

MSc3. Olga Tubman , M.Sc. “Smooth and Adaptive Forward Erasure Correcting”, (published 1 article) July 2000. Now in Computer Science Industry.

MSc4. Galit Uzan, M.Sc. Internship, (ESIM), Ecole Superieure des Ingenieurs de Marseilles and Luminy Technologies and Sciences University, “Magnifying Computing Gaps”, (published 1 article), 2003.

MSc5. Lior Davidovitch, M.Sc., “Stability of Multi-value Long Lived Consensus”, (published 1 article), May 2004.

MSc6. Ori Gersten, M.Sc., “Self-Stabilizing Active Tier Systems”, (published 1 article), January 2005.

MSc7. Noam Singer, (with Amos Beimel), “Real-Time Oblivious Forward Erasure Correcting”, (published 1 article), May 2005.

MSc8. Ronen Kat, (M.Sc. and Ph.D. candidacy exam, 2002) “Self-Stabilizing Distributed Storage Systems”, received Intel award, 2002.

MSc9. Marina Sadetsky, “Approximation Certificates for Hurestics”, (published one article), June 2007.

MSc10. Hen Fitoussi, “Optical Solutions for Bounded NP Problems”, (published 1 article), received support from the Summer School on Algorithmic Data Analysis, November 2007.

MSc11. Limor Lahiani, (M.Sc. and Ph.D. candidacy exam, June 2004), “Polygon Based Schemes for Sensor Networks”, received Intel award.

MSc12. Nir Tzachar, (M.Sc. and Ph.D. candidacy exam, December 2005) “Self-Stabilizing and Self-Organizing Distributed Algorithms”, received support from Israeli Grid organization.

MSc13. Olga Brukman, (M.Sc and Ph.D. candidacy exam, March 2004) “Autonomic Recoverer”,

received support from Deutsche Telekom.

MSc14. Rami Puzis, “Optimization of Deployment Strategy for Distributed Electronic Threat Detection and Prevention Systems”, (M.Sc and Ph.D. candidacy exam, September 2007) received support from Deutsche Telekom.

Past MSc current PhD Students:

PhD-MSc. Polina Zilberman, “User Defined Firewall Filtering”, (together with Yuval Elovici, published 1 article), MSc and PhD candidacy exam March 2010, supported by Deutsche Telekom.

Current Students:

PhD. Ofer Hermoni, (Ph.D candidacy exam, June 2008) “Anonymous Communication Networks”, (together with Eyal Felstaine/Yuval Elovici, got Intel and Eshkol fellowship).

PhD. Eyal Cohen “Nanotechnology Based Optical Computing”, PhD candidacy exam January 2012, supported by the Ministry of Science.

PhD. Hadassa Daltrophe

PhD. Ariel Hanemann

MSc. Nova Fandina, “Holographic Computing”.

MSc. Jonathan Goldfeld, “On Line Monitoring of Positive Temporal Predicates”.

MSc. Amir Anter

MSc. Omri Liba

### **Awards, Citations, Honors, Fellowships:**

Miriam and Aaron Gutwirth scholarship for M.Sc. studies, 1989.

Toman foundation for Academic Excellence, \$7.3K, 1996.

Rita Altura Trust Chair in Computer Sciences, 2001-current.

IBM Faculty Award, \$20K 2001, \$20K 2002, \$10K 2003.

Consulting Prof. Jeffrey and Holly Ullman for establishing the Martha and Solomon Scharf Prize and research support of \$200K for BGU, 2006.

Teaching excellence award, faculty of natural sciences, BGU, 2007.

Research excellence award, faculty of natural sciences, BGU, \$10K, 2009.

### **Scientific Publications:**

#### **(a) Authored book**

b1. Dolev, S., *Self-Stabilization*, the MIT Press, 208 pages, March 2000, ISBN 0-262-04178-2.

## Book chapters

bc1. Dolev, S., Kopeetsky, M., Clouser, T., and Nesterenko, M., “Low Overhead RFID Security,” *RFID Handbook: Applications, Technology, Security and Privacy*, CRC Press, 2007.

bc2. Dolev, S., and Tzachar, N., “Self-Stabilizing and Self-Organizing Virtual Infrastructures for Mobile Networks,” *Theoretical Aspects of Distributed Computing in Sensor Networks*, Springer, 2010.

bc3. Altshuler, Y., Dolev, S., and Elovici Y., “TTLED Random Walks for Collaborative Monitoring in Mobile and Social Networks,” *Handbook of Optimization in Complex Networks*, Springer, 2011.

## (b) Edited volumes

e1. Dolev, S., *The Second Workshop on Self-Stabilizing Systems (WSS95)* 1995.

e2. Dolev, S., *The 20th International Symposium on Distributed Computing (DISC)*, September 18-20 2006, Springer LNCS 4167.

e3. Dolev, S., Haist, T., Oltean, M., *The First International Workshop on Optical Supercomputing (OSC)*, August 2008, Springer LNCS 5172.

e4. Dolev, S., *The Fifth International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS)*, July 2009, Springer LNCS 5804.

e5. Dolev, S., Oltean, M., *The Second International Workshop on Optical Supercomputing, (OSC)* November 2009, Springer LNCS 5882.

e6. Dolev, S., Cobb, J., Fischer, M., Yung, M., *The 12th International Symposium on Stabilization, Safety and Security, (SSS)* September 2010, Springer LNCS 6366.

e7. Dolev, S., Oltean, M., *The Third International Workshop on Optical Supercomputing, (OSC)*, Springer LNCS 6748.

## (c) Chapters in collective volumes — Refereed conference proceedings

c1. Dolev, S., Israeli, A., and Moran, S., “Self Stabilization of Dynamic Systems,” *Proc. of the MCC Workshop on Self-Stabilizing Systems, Microelectronics and Computer Technology Corporation*, Technical Report Number STP-379-89, Austin, 1989. Also in the *Proc. of the IEEE 16th Conference of Electrical and Electronics Engineers in Israel*, 1989.

- c2. Dolev, S., Israeli, A., and Moran, S., “Self Stabilization of Dynamic Systems Assuming Only Read/Write Atomicity,” *Proc. of the 9th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1990), pp. 103-117, 1990.
- c3. Dolev, S., Israeli, A., and Moran, S., “Resource Bounds for Self Stabilizing Message Driven Protocols,” *Proc. of the 10th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1991), pp. 281-293, 1991.
- c4. Arora, A., Dolev, S., and Gouda, G. M., “Maintaining Digital Clocks in Step”, *Proc. of the 5th International Workshop on Distributed Algorithms*, Springer-Verlag LNCS:579, (WDAG 1991), pp. 71-79, 1991.
- c5. Dolev, S., Israeli, A., and Moran, S., “Uniform Dynamic Self Stabilizing Leader Election,” *Proc. of the 5th International Workshop on Distributed Algorithms*, Springer-Verlag LNCS:579, (WDAG 1991), pp. 167-180, 1991.
- c6. Dolev, S. and Welch, L. J., “Wait-Free Clock Synchronization,” *Proc. of the 12th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1993), pp. 97-108, 1993.
- c7. Dolev, S., and Welch, L. J., “Crash Resilient Communication in Dynamic Networks,” *Proc. of the 7th International Workshop on Distributed Algorithms*, Springer-Verlag LNCS:725, (WDAG 1993), pp. 129-144, 1993.
- c8. Dolev, S., “Optimal Time Self Stabilization in Dynamic Systems,” *Proc. of the 7th International Workshop on Distributed Algorithms*, Springer-Verlag LNCS:725, (WDAG 1993), pp. 160-173, 1993.
- c9. Abu-Amara, H., Coan, B., Dolev, S., Kanevsky, A. and Welch, L. J., “A Fault-Tolerant Layered Approach to Fiber-Optic Networks,” *High-Speed Networking and Multimedia Computing*, Arturo A. Rodriguez, Mon-Song Chen, Jacek Maitan, Editors, Proc. SPIE 2188 pp. 380-390, 1994.
- c10. Aabello, J. and Dolev, S., “On the Computational Power of Self-Stabilizing Systems,” *Journal of Computing and Information*, Vol. 1, No. 1, Special Issue: *Proceedings of the 6th International Conference on Computing and Information*, pp. 585-603 (B10), 1994.
- c11. Awerbuch, B., Patt-Shamir, B., Varghese, G., and Dolev, S., “Self-Stabilization by Local Checking and Global Reset,” *Proc. of the 8th International Workshop on Distributed Algorithms*, Springer-Verlag LNCS:857, (WDAG 1994), pp. 326-339, 1994.
- c12. Dolev, S., “Optimal Time Self-Stabilization in Uniform Dynamic Systems,” *Proc. of the 6th IASTED/ISMM International Conference on Parallel and Distributed Computing and Systems*, pp. 25-28, 1994.
- c13. Attiya, H., Dolev, S. and Welch, L. J., “Connection Management Without Retaining Information,” *28th Hawaii International Conference on System Science* pp. 622-631 1995.

- c14. Dolev, S., and Pradhan, D. K., Welch, L. J., “Modified Tree Structure for Location Management in Mobile Environments,” *Fourteenth Annual Joint Conference of IEEE Computer and Communications Societies*, (INFOCOM 1995), Vol. 2, pp. 530-537, 1995.
- c15. Dolev, S., Kate, M., and Welch, L. J., “A Competitive Analysis for Retransmission Timeout,” *15th International Conference on Distributed Computing Systems*, (ICDCS 1995), pp. 450-455, 1995.
- c16. Dolev, S. and Welch, L. J., “Self-Stabilizing Clock Synchronization in the Presence of Byzantine Faults,” *Proc. of the Second Workshop on Self-Stabilizing Systems*, (WSS 1995), pp. 9.1-9.12, 1995. Brief announcement in *Proc. of the 14th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1995), pp. 256, 1995.
- c17. Dolev, S., and Herman, T., “SuperStabilizing Protocols for Dynamic Distributed Systems,” *Proc. of the Second Workshop on Self-Stabilizing Systems*, (WSS 1995), pp. 3.1-3.15, 1995. Brief announcement in *Proc. of the 14th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1995), pp. 255, 1995.
- c18. Dolev, S., Kranakis, E., Krizanc, D., and Peleg, D., “Bubbles: Adaptive Routing Scheme for High-Speed Dynamic Networks,” *Proc. of the 27th ACM Symposium on Theory of Computing*, (STOC 1995) pp. 528-537, 1995.
- c19. Dolev, S., Gouda, G. M., and Schneider, M., “Memory Requirements for Silent Stabilization,” *Proc. of the 15th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1996), pp. 27-34, 1996.
- c20. Dolev, S., Kranakis, E., and Krizanc, D., “Baked Potato Routing,” *Proc. of the 4th Israeli Symposium on Theory of Computing and Systems*, (ISTCS 1996), pp. 27-36, 1996. Brief announcement in *Proc. of the 15th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1996), pp. 210, 1996.
- c21. Afek, Y., and Dolev, S., “Local Stabilizer,” *Proc. of the 5th Israeli Symposium on Theory of Computing and Systems*, (ISTCS 1997), pp. 74-84, 1997. Brief announcement in *Proc. of the 16th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 1997), pp. 287, 1997.
- c22. Dolev, S., and Ostrovsky, R., “Efficient Anonymous Multicast and Reception” *Proc. of the Seventeenth Annual IACR Crypto Conference*, Springer-Verlag LNCS:1294, (CRYPTO 1997), pp. 395-409, 1997.
- c23. Abraham, U., Dolev, S., Herman, T., and Koll, I., “Self-Stabilizing  $\ell$ -exclusion”, *Proc. of the 3rd Workshop on Self-Stabilizing Systems*, Carleton University Press, *International Informatics Series 7*, (WSS 1997), pp. 48-63, 1997.
- c24. Dolev, S., Kesselman, A., “Non-Preemptive Real-Time Scheduling of Multimedia Tasks”, *Proc. of the 3rd IEEE Symposium on Computers and Communications*, pp. 652-656, 1998.

- c25. Beauquier, J., Delaet, S., Dolev, S., and Tixeuil, S., “Transient Fault Detectors” *Proc. of the 12th International Symposium on DIStributed Computing*, Springer-Verlag LNCS:1499, (DISC 1998), pp. 62-74, 1998.
- c26. Dolev, S., Korach, E., and Yukelson, D., “The Sound of Silence: Guessing Games for Saving Energy in Mobile Environment” *Eighteenth Annual Joint Conference of IEEE Computer and Communications Societies*, (INFOCOM 1999), pp. 768-775, 1999.
- c27. Dolev, S., Herman, T., “Parallel Composition of Stabilizing Algorithms” *Proc. of the 4th Workshop on Self-Stabilizing Systems*, (WSS 1999), pp. 25-33, 1999.
- c28. Dolev, S., Kesselman, A., “Bounded Latency Scheduling Scheme for ATM Cells”, *Proc. of the 4th IEEE Symposium on Computers and Communications*, pp. 273-277, 1999.
- c29. Dolev, S., Segala, R., and Shvartsman, A., “Dynamic Load Balancing with Group Communication”, *Proc. of the 6th International Colloquium on Structural Information and Communication Complexity*, (SIROCCO 1999), pp. 111-125, 1999.
- c30. Dolev, S., Fitingof, B., Melkman, A., and Tubman, O., “Smooth and Adaptive Forward Erasure Correcting” *Proc. of the 21th Conference of Electrical and Electronics Engineers in Israel*, pp. 483-486, 2000.
- c31. Dolev, S., Rajsbaum, S., “Stability of Long-lived Consensus” *Proc. of the 19th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 2000), pp. 309-318, 2000.
- c32. Dolev, S., Stomp, F., “Safety Assurance via On-Line Monitoring” *Proc. of the 5th IEEE International Symposium on Autonomous Decentralized Systems* (ISADS 2001) pp. 101-108 2001.
- c33. Beimel, A., Dolev, S., “Buses for Anonymous Message Delivery” *2nd International Conference on FUN with Algorithms*, Carleton University Press, (FUN 2001), pp. 1-13, 2001.
- c34. Dolev, S., Schiller, E., “Communication Adaptive Self-Stabilizing Group Membership Service” *Proc. of the 5th Workshop on Self-Stabilizing Systems*, LNCS:2194, (WSS 2001), pp. 81-97, 2001.
- c35. Dolev, S., Herman, T., “Dijkstra’s Self-Stabilizing Algorithm in Unsupportive Environments” *Proc. of the 5th Workshop on Self-Stabilizing Systems*, LNCS:2194, (WSS 2001), pp. 67-81, 2001.
- c36. Dolev, S., Schiller, E., Welch, L. J., “Random Walk for Self-Stabilizing Group Communication in Ad-Hoc Networks” *Proc. of the 21st IEEE Symposium on Reliable Distributed Systems* (SRDS 2002), pp. 70-79, 2002. Brief Announcement in the *Proc. of the 21st Annual ACM Symp. on Principles of Distributed Computing*, (PODC 2002), pp. 259, 2002.
- c37. Dolev, S., Kat, R., “Self-Stabilizing Distributed File Systems” *International Workshop on Self-Repairing and Self-Configurable Distributed Systems*, (RCDS 2002), *Proc. of the 21st IEEE Symposium on Reliable Distributed Systems* (SRDS 2002), pp. 384-389, 2002. Also presented at the *IBM’s Storage Systems Technology Workshop*, IBM Haifa Labs, November 2002.

- c38. Dolev, S., Schiller, E., “Self-Stabilizing Group Communication in Directed Networks” *Proc. of the 6th International Symposium on Self-Stabilizing Systems*, Springer-Verlag LNCS 2704, (SSS 2003), pp. 61-76, 2003 and *Supplemental Volume of the 2003 International Conference on Dependable Systems and Networks*, *IEEE Computer Society*, (DSN 2003), pp. W-155, 2003.
- c39. Dolev, S., and Haviv, Y. “Self-Stabilizing Microprocessor, Analyzing and Overcoming Soft-Errors” *17th International Conference on Architecture of Computing Systems* Springer-Verlag LNCS 2981, (ARCS 2004), pp. 31-46, 2004. also in *Supplemental Volume of the 2003 International Conference on Dependable Systems and Networks*, *IEEE Computer Society*, (DSN 2003), pp. B-18, B-19, 2003. Also presented at the *IBM’s Compiler and Architecture Seminar*, IBM Haifa Labs, November 2002.
- c40. Dolev, S., Gilbert, S., Lynch, N. A., Shvartsman, A., Welch, J., “GeoQuorum: Implementing Atomic Memory in Ad Hoc Networks” *17th International Conference on Principles of Distributed Computing*, Springer-Verlag LNCS 2848, (DISC 2003), pp. 306-320, 2003.
- c41. Brukman, O., Dolev, S. and Kolodner, H., “Self-Stabilizing Autonomic Recoverer for Eventual Byzantine Software” *IEEE International Conference on Software-Science, Technology & Engineering*, (SwSTE03), pp. 20-29, Herzelia, 2003. Also in the *Workshop on Adaptive Distributed Systems* (WADiS03), Sorrento, Italy, 2003.
- c42. Dolev, S. and Yagel, R., “Toward Self-Stabilizing Operating Systems” *2nd International Workshop on Self-Adaptive and Autonomic Computing Systems* (SAACS04), pp. 684-688, 2004. *IEEE International Conference on Software-Science, Technology & Engineering*, Industrial Track, Doctoral Symposium, Posters, (SwSTE03), Herzelia, November 2003.
- c43. Dolev, S., Herman, T., and Lahiani, L., “Polygonal Broadcast, Secret Maturity and the Firing Sensors” *Third International Conference on Fun with Algorithms* (FUN2004), pp. 41-52, May 2004. Also in the *2nd IEEE Upstate New York Workshop on Sensor Networks*, October, 2003. Also Brief announcement in *Proc. of the 23th Annual ACM Symp. on Principles of Distributed Computing*, pp. 391, (PODC 2004), 2004.
- c44. Dolev, S., Gilbert, S., Lynch, A. N., Schiller, E., Shvartsman, A., and Welch, J. “Virtual Mobile Nodes for Mobile Ad Hoc Networks”, *International Conference on Principles of Distributed Computing*, (DISC 2004), pp. 230-244, 2004. Also Brief announcement in *Proc. of the 23th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 2004), pp. 385, 2004.
- c45. Dolev, S., and Kat, R. I., “HyperTree for Self-Stabilizing Peer-to-Peer Systems”, *3rd IEEE International Symp. on Network Computing and Applications* (IEEE NCA04), pp. 25-32, 2004.
- c46. Beimel, A., Dolev, S., and Singer, N., “RT oblivious erasure correcting”, *IEEE Information Theory Workshop*, San Antonio, 2004. Presented in the *Fourth Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics and Algorithms*, May 2004. Also Brief announcement in *Proc. of the 23th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 2004), pp. 393, 2004.
- c47. Davidovitch, L., Dolev, S., and Rajsbaum, S., “Consensus Continue? Stability of Multi-Valued Continuous Consensus!”, *Proc. of the sixth workshop on Geometric and Topological Methods*

in *Concurrency and Distributed Computing*, (GETCO 2004), pp. 21-24, BRICS Notes Series NS-04-2, ISSN 0909-3206, September 2004. Presented in the *Fourth Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics and Algorithms*, May 2004. Also in *Electronic Notes in Theoretical Computer Science*, (ENTCS) 230, pp. 23-38, 2009.

c48. Dolev, S. and Gersten, O., “Robust Active SuperTier Systems”, *IEEE International Conference on Software-Science, Technology & Engineering*, (SwSTE05), pp. 23-33, 2005.

c49. Dolev, S., Gilbert, S., Lahiani, L., Lynch, N., and Nolte, T., “Timed Virtual Stationary Automata for Mobile Networks”, *Proc. of the 2005 International Conference On Principles Of Distributed Systems*, (OPODIS), pp. 130-145, LNCS, 2005. Also **invited paper** in *Forty-Third Annual Allerton Conference on Communication, Control, and Computing*. Also, Brief announcement in *Proc. of the 24th Annual ACM Symp. on Principles of Distributed Computing*, (PODC 2005), pp. 323, 2005. Technical Report MIT-LCS-TR-979, Massachusetts Institute of Technology, 2005.

c50. Dolev, S., Gilbert, S., Schiller, E., Shvartsman, A., and Welch, J. “Autonomous Virtual Mobile Nodes” *Third ACM/SIGMOBILE Workshop on Foundations of Mobile Computing*, (DIALM/POMC), pp. 62-69, 2005. Brief announcement in *Proc. of the 17th International Conference on Parallelism in Algorithms and Architectures*, (SPAA 2005), pp. 215, 2005. Technical Report MIT-LCS-TR-992, Massachusetts Institute of Technology, 2005.

c51. Dolev, S., Haviv, Y., and Sagiv, M., “Self-Stabilization Preserving Compiler” *Proc. of the 7th International Symposium on Self-Stabilizing Systems*, (SSS 2005), LNCS 3764, pp. 81-95, 2005.

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- j61. Dolev, S., Fitoussi, H., “Masking Traveling Beams, Optical Solutions for Bounded NP-Complete Problems”,  
*Theoretical Computer Science*, 411(6), pp. 637-853, 2010.
- j62. Tamir, D., Shaked, N., Wilson, P., Dolev, S., “Electro-Optical DSP of Tera Operations per Second and Beyond”,  
*Journal of the Optical Society of America A (JOSA)*, special feature on Optical High-Performance Computing, Vol. 26, No. 8, August 2009.
- j63. Dolev, S., Kopeetsky, M., Shamir, A., “RFID Authentication, Efficient Proactive Information Security within Computational Security,”  
*Theory of Computing Systems*, 48(1) pp. 132-149, 2011.
- j64. Anter, A., Dolev, S., “Optical Solution for Hard in Average #P-Complete Instances (Using Exponential Space for Solving Instances of the Permanent)”,  
*Natural Computing*, 9(4), pp. 891-902, special issue on optical super-computing, 2010.
- j65. Dolev, S., Elovici, Y., Puzis, R., “Routing Betweenness Centrality”,  
*Journal of the ACM* 57(4), 2010.
- j66. Dolev, S., Schiller, E., Spirakis, P., Tsigas, P., “Game Authority for Robust and Scalable Distributed Selfish-Computer Systems”,  
*Theoretical Computer Science*, 411 (26-28), pp. 2459-2466, 2010.
- j67. Caulfield, H. J., and Dolev, S., “Why the future of supercomputing requires optics”,  
*Nature Photonics*, Commentary, Vol. 4, pp. 261-263, May 2010. Also Correspondence, Vol. 4, pp. 406-407, July 2010.
- j68. Dolev, S., Kat, R., and Schiller, E., “When Consensus Meets Self-Stabilization”,  
*Journal of Computer and Systems Science*, 76(8) pp. 884-900, 2010.
- j69. Dolev, S., and Yagel, R., “Stabilizing Trust and Reputation for Self-Stabilizing Efficient Hosts in Spite of Byzantine Guests,”  
*ACM SIGOPS Operating Systems Review*, 44(3) pp. 65-74, 2010.

- j70. Shabtai, A., Fledel, Y., Elovici, Y., Dolev, S., and Glezer, C., “Google Android: Comprehensive Security Assessment”,  
*IEEE Security and Privacy Magazine*, 8(2) pp. 35-44, 2010.
- j71. Dolev, S., and Tzachar, N., “Randomization Adaptive Self-Stabilization,”  
*Acta Informtica*, 47(5-6), pp. 313-323, June 2010.
- j72. Dolev, S., Elovici, Y., Kesselman, A., and Zilberman. P., “Trawling Traffic under Attack, Overcoming DDoS Attacks by Target-Controlled Traffic Filtering”  
*Journal of Foundations of Computer Science*, accepted, September 2010.
- j73. Tamir, D., Shaked, N., Geerts, W., and Dolev, S., “Parallel Decomposition of Combinatorial Optimization Problems Using Electro-Optical Vector by Matrix Multiplication Architecture,”  
*Journal of Supercomputing*, accepted, November 2010.
- j74. Dolev, S., and Kopeetsky, M., “Anonymous Transactions in Computer Networks”,  
*ACM Transactions on Autonomous and Adaptive Systems (TAAS)*, 2010.
- j75. Brukman, O., and Dolev, S., “Recovery Oriented Programming: Runtime Monitoring of Safety and Liveness”,  
*STTT International Journal on Software Tools for Technology*, accepted, April 2011.
- j76. Puzis, R., Tubi, M., Elovici, Y., Glezer, C., and Dolev, S., “A Decision Support System for Placement of Intrusion Detection and Prevention Devices in Large-Scale Networks”,  
*ACM Transactions on Modeling and Computer Simulations*, accepted, June 2011.
- j77. Dolev, S., Dubios, S., Potop-Butucaru, M., and Tixeuil, S., “Stabilizing data-link over non-FIFO channels with optimal fault-resilience,”  
*Information Processing Letters*, 111 (18): 912-920, July 2011.
- j78. Kedar, D., Dolev, S., Arnon, S., “Energy-efficient optical acquisition schemes in wireless sensor networks,”  
*Wireless Networks*, accepted, July 2011.
- j79. Dolev, S., Gilboa, N., Kopeetsky, M., Persiano, G., and Spirakis, P., “Information Security for Sensors by Overwhelming Random Sequences and Permutations”,  
*Ad Hoc Networks Journal*, special issue of DIALM/POMC 2010, accepted, November 2011.
- j80. Shabtai, A., Moskovitch, R., Feher, C., Dolev, S., Elovici, Y., “Detecting Unknown Malicious Code by Applying Classification Techniques on OPCODs Patterns,”  
*Security Informatics*, (related to patent 8), accepted, December 2011.
- j81. Dolev, S., Segal, M., and Shpungin, H., “Bounded-Hop Energy Efficient Liveness of Flocking Swarms,”  
*IEEE Transactions on Mobile Computing*, accepted, January 2012.

(e) Unrefereed professional articles and review publications:

- u1. Dolev, S., “Workshop Report, Second Workshop on Self-Stabilizing Systems,” *SIGACT news*, Vol. 26 No. 3, Sept. 1995, pp. 74-76.
- u2. Dolev, S., **Invited Paper**, “Stabilizing in the Presence of Faults, the Digital Clock Synchronization Case,” *Proc. of the 1997 International Conference On Principles Of Distributed Systems*, OPODIS’97, Dec. 1997, pp. 285-291.
- u3. Dolev, S., “Self Stabilization”, editorial, *AIAA Journal of Aerospace Computing, Information, and Communication (JACIC)*, Vol. 1, pp. 253-255, June 2004.
- u4. Aspnes, J., Busch, C., Dolev, S., Fatourou, P., Georgiou, C., Shvartsman, S., Spirakis, P., Wattenhofer, R., “Eight Open Problems in Distributed Computing”, *Distributed Computing Column of EATCS Bulletin*, Edited by Mario Mavronicolas, September 2006.
- u5. Dolev, S., Haviv, Y., **Invited Paper**, “Stabilization Enabling Technology”, *Proc. of the 8th International Symposium on Stabilization, Safety, and Security of Distributed Systems*, (SSS 2006), LNCS 4280, pp. 1-15, 2006.
- u6. Dolev, S., “A Review of the DISC 2006 Conference”, *SIGACT news*, Vol. 38 No. 1, March. 2007, pp. 46-48.
- u7. Brukman, O., Dolev, S., Haviv, Y., Lahiani, L., Kat, R., Schiller, E., Tzachar, N., Yagel, R., “Self-Stabilization from Theory to Practice”, *Distributed Computing Column of EATCS Bulletin*, Edited by Mario Mavronicolas, February 2008.
- u8. Dolev, S., **Invited Paper**, “Self-Stabilizing and Self-Organizing Mobile Networks”, *5th ACM/SIGMOBILE Workshop on Foundations of Mobile Computing*, (DIALM/POMC), pp. 25-26, 2008.
- u9. Dolev, S., Schiller, E., Spirakis, P., Tsigas, P., **Invited Paper**, “Strategies for Repeated Games with Subsystem Takeovers, Implementable by Deterministic and Self-Stabilizing Automata”, *8th MiNEMA Workshop*, 2008.
- u10. Dolev, S., Gilbert, S., Guerraoui, R., Kowalski, D., Newport, C., Kohn, F., Lynch, N., “Reliable Distributed Computing on Unreliable Radio Channels”, *Proc. of MobiHoc S<sup>3</sup> Workshop*, pp. 1-4, 2009.
- u11. Dolev, S., Garay, J., Gilboa, N., Kolesnikov, V. **Invited Paper**, “Swarming Secrets”, *47th Annual Allerton Conference on Communication, Control, and Computing*, pp. 1438-1445, 2009. Also brief Announcement PODC pp. 231-232, 2010.
- u12. Dolev, S., Haist, T., Oltean, M., Introduction to special issue on Optical SuperComputing *Natural Computing* 9(4): pp. 889-890, 2010.

u13. Dolev, S., Schiller, E., Spirakis, P., and Tsigas, P., “Robust and Scalable Middleware for Selfish-Computer Systems,” *Computer Science Review*, 5(1), pp. 69-84, 2011. Special issue on Foundations of Adaptive Networked Societies of Tiny Artifacts, Elsevier.

u14. Blundo, C., De Caro, A., Dolev, S., Gilboa, N., Kopeetsky, M., Persiano, G. and Spirakis, P., “Innovative Approaches for Security of Small Artifacts,” *Computer Science Review*, 5(1), pp. 47-55, 2011. Special issue on Foundations of Adaptive Networked Societies of Tiny Artifacts, Elsevier.

u15. Dolev, S., “Dynamic Multi-Party Computation Forever for Swarm & Cloud Computing & Code Obfuscation (Keynote Abstract),” *Seventh International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS)*, July 2011.

### **Patents:**

p1. Dolev, S., and Nir, Y., “Optical Implementation of Bounded Non-Deterministic Turing Machines”, Israeli patent application No. 155994, filed 19 May, 2003.  
US Patent No. 7,130,093 B2, October, 2006.

p2. Dolev, S., Korach, E., and Uzan, G., “A Method for Encryption and Decryption of Messages”, US Patent 20090296931, 2009.

p3. Dolev, S., Haviv, Y., “Apparatus and methods for stabilization of processors, operating systems and other hardware and/or software configurations”, US patent application, US 2008/0098205 A1, September 2007.

p4. Dolev, S., Kopeetsky, M., Shamir, A., “Method, Apparatus and Product for RFID Authentication”, US20090225985, 2009.

p5. Puzis, R., Elovici, Y., Dolev, S., “Process for finding the most prominent group of vertices in complex networks”, European Patent EP1887744, 2010, application, P07015351.5-1249, 16.4.07.

p6. Puzis, R., Elovici, Y., Dolev, S., “Optimal Deployment of Infection Detection Systems over a Data Network”, European Patent application, 10.8.06.

p7. Dolev, S., “Novel Dynamic Firewall for NSP Networks” USA Patent, 7,808,911 B2, Oct. 5 2010. EP1959630, 2008

p8. Dolev, S., Tzachar, N., “Malware signature builder and detection for executable code,” European patent EP2189920, 2010, application 09014289.4 priority, 17.11.08.

p9. Dolev, S., Kopeetsky, M., “Anonymous Transactions in Computer Networks” EP 2 271 044 A3, priority 2009, publication 2011.

p10. Dolev, S., Frenkel, S., “A way of encoding and decoding of digital data based on digital holography principles,” Priority number 2010145892, 11.11 2010 Russian Federal Service of Intellectual Properties and Patents.

p11. Altshuler, Y., Elovici, Y., Dolev, S., Shabtai, A., Fledel, Y., “Collaborative system for protecting against the propagation of malwares in a network,” US 2011/0113491 A1, May 12, 2011.

## Lectures and Presentation at Meetings and Invited Seminars:

### Invited Plenary Lectures at Conference Meetings

Workshop on Parallel Algorithms (presentation of a survey), May 1996.

**17th International Conference on Architecture of Computing Systems (ARCS04)**, Tutorial on Self-Stabilization, 2004.

*8th Symposium on Self-Stabilizing Systems*, **keynote speaker**, November 2006.

*AutoMathA: from Mathematics to Applications*, Plenary Conference, Université of Liège, **invited lecturer**, June 2009.

*From Computer Science Research Frontiers*, Plenary Talk for Computer Science Educators, December 2009.

Jerusalem Symposium Software Engineering 2011, Jerusalem College of Engineering, Plenary Guest Lecture, August 2011.

*Seventh International Workshop on Algorithmic Aspects of Wireless Sensor Networks (ALGOSENSORS)*, **keynote speaker**, September 2011.

### Lectures in Conferences:

The *sixteenth Conference of Electrical and Electronics Engineers in Israel*, 1989.

The *9th Annual ACM Symp. on Principles of Distributed Computing*, 1990.

The *10th Annual ACM Symp. on Principles of Distributed Computing*, 1991.

The *5th International Workshop on Distributed Algorithms*, 1991.

The *12th Annual ACM Symp. on Principles of Distributed Computing*, 1993.

The *7th International Workshop on Distributed Algorithms*, 1993.

*SPIE Conference on High-Speed Networking and Multimedia Computing*, 1994.

The *28th Hawaii International Conference on System Science*, 1995.

The *14th Annual ACM Symp. on Principles of Distributed Computing*, 1995.

The *Second Workshop on Self-Stabilizing Systems*, 1995.

The *27th ACM Symposium on Theory of Computing*, 1995.

The *15th Annual ACM Symp. on Principles of Distributed Computing*, 1996.

The *4th Israeli Symposium on Theory of Computing and Systems*, 1996.

The *16th Annual ACM Symp. on Principles of Distributed Computing*, 1997.

The *5th Israeli Symposium on Theory of Computing and Systems*, 1997.

The *3rd Workshop on Self-Stabilization, WSS'97*, 1997.

The *12th International Symposium on Distributed Computing*, 1998.

*Eighteenth Annual Joint Conference of IEEE Computer and Communications Societies (IEEE INFOCOM'99)*, 1999.

The *19th Annual ACM Symp. on Principles of Distributed Computing*, 2000.

Dagstuhl-Seminar on self-stabilization, October, 2000.  
 The *5th workshop on Self-Stabilization, WSS'01*, 2001.  
 The *21st IEEE Symposium on Reliable Distributed Systems (SRDS 2002)*, 2002.  
*Journées Internationales sur l'auto-stabilization, Centre International de Rencontres Mathématiques, CIRM, Luminy, France*, October, 2002.  
 The *Second Jerusalem Parallel Distributed Programming Symposium (JPDPS) 2002*, Bar-Ilan University, October 2002.  
 Security 2003, Network and Access, Kfar Maccabiah Convention Center, December 2003.  
*Third International Conference on Fun with Algorithms (FUN2004)*, May 2004.  
*Banff International Research Station, Seminar on Self-Stabilizing Distributed Systems*, Oct. 2004.  
 Dagstuhl-Seminar on Anonymous Communication and its Applications, October 2005.  
 Second Seminar Artzi in Networking, April 2006.  
*8th Symposium on Self-Stabilizing Systems*, November 2006.  
*8th Symposium on Self-Stabilizing Systems, Panel member*, November 2006.  
*11th IEEE Meeting on Optical Engineering and Science in Israel*, March 2007.  
*6th NASA Langley Formal Methods Workshop, (LFM)* April 2008.  
*5th ACM/SIGMOBILE Workshop on Foundations of Mobile Computing, (DIALM/POMC)*, August, 2008.  
*First International Workshop on Optical Supercomputing*, August 2008.  
 Dagstuhl-Seminar on Fault-Tolerant Distributed Algorithms on VLSI Chips, September 2008.  
 The *Annual ACM Symp. on Principles of Distributed Computing*, 2009.  
*47th Annual Allerton Conference on Communication, Control, and Computing*, 2009.  
*Second International Workshop on Optical Supercomputing*, November 2009.  
 The *Annual ACM Symp. on Principles of Distributed Computing*, 2010.  
 The *24th International Symposium on Distributed Computing, (DISC)* 2010.  
*6th ACM/SIGMOBILE Workshop on Foundations of Mobile Computing, (DIALM/POMC)*, September, 2010.  
*Mobile Security Conference (MobSec)*, Herzliya, November 2010.  
 PerAda Security, *Trust and Privacy Workshop*, Rome, November 2010.  
*Trends in Theoretical Cryptography (TTC)*, Beijing, January 2011.  
 Fourth Seminar Artzi in Networking, March 2011.

### Invited Seminars:

IBM Watson, host Dr. Shay Kutten, August 1990.  
 MIT, host Prof. Baruch Awerbuch, August 1990.  
 IBM Almaden, host Dr. Yaron Wolfstahl, August 1990.  
 AT&T Bell Labs, host Dr. Gadi Taubenfeld, August 1991.  
 DEC Systems Research Center, host Dr. Leslie Lamport, August 1991.  
 University of Texas at Austin, host Prof. Mohamed Gouda, February 1993.  
 University of Nevada Las Vegas, host Prof. Ajoy Kumar Datta, June 1993.  
 IBM Watson, host Dr. Amir Herzberg, August 1993.  
 Bell Core, host Dr. Brian Coan, August 1993.  
 University of Chicago, host Prof. Janos Simon, August 1993.  
 University of California Los Angeles, host Prof. Eli Gafni, February 1994.  
 University of Chicago, host Prof. Janos Simon, March 1994.  
 Carleton University, host Prof. Evangelos Kranakis, August 1994.  
 University of Texas at Austin, host Prof. Mohamed Gouda, September 1994.

University of Houston, host Prof. Farokh B. Bastani, February 1995.  
 Université de Paris-sud — Paris 11, LRI, Laboratoire de Recherche en Informatique d'Orsay, host Prof. Joffroy Beauquier, March 1996.  
 Dagstuhl-Seminar on time services, March 1996.  
 Tel-Aviv University, host Dr. Yishay Mansour, May 1996.  
 Texas A&M University, host Prof. Jennifer Welch, May 1996.  
 MIT, host Prof. Ron Rivest, April 1997.  
 4th International Summer School on Distributed Computing, Siena, Italy, June 1997.  
 The 1997 International Conference On Principles Of Distributed Systems, December 1997.  
 Dagstuhl-Seminar on self-stabilization, August 1998.  
 University of Connecticut, host Prof. Alex Shvartsman, September 1998.  
 5th International Summer School on Distributed Computing, Siena, Italy, June 1999.  
 Institute de Mathmatics, UNAM, host Prof. Sergio Rajsbaum, Mexico, August 1999.  
 New York University, host Prof. Zvi M. Kedem, September 1999.  
 Wayne State University, host Prof. Frank Stomp, January 2000.  
 Compaq Research Laboratory, host Dr. Mark Tuttle, January 2000.  
 MIT, host Prof. Nancy Lynch, September 2000.  
 Dagstuhl-Seminar on self-stabilization, October 2000.  
 IBM Research Laboratory, Haifa, Host Dr. Ealan A. Henis, December 2000.  
 IBM Research Laboratory, Haifa, Seminar on Active Technologies and Systems, organized by Dr. Opher Etzion, June 2002.  
 University of Iowa, host Prof. Ted Herman, October 2002.  
 University of California Berkeley, host Prof. Kathy Yelick, October 2002.  
 Hong Kong University of Science and Technology, host Prof. Mordacai J. Golin, October 2002.  
 New York University, host Prof. Zvi M. Kedem, February 2003.  
 University of Texas at Austin, host Prof. Mohamed Gouda, February 2003.  
 MIT, host Prof. Nancy Lynch, February 2003.  
 Hebrew University, host Prof. Danny Dolev, April 2003.  
 Jerusalem College of Engineering, host Dr. Iaakov Exman, May 2003.  
 Texas A&M University, host Prof. Jennifer Welch, June 2003.  
 MIT, host Prof. Nancy Lynch, October 2003.  
 Yale, host Prof. Michael Fischer and Prof. James Aspens, October 2003.  
 Ben-Gurion University, a ceremony in memory of Naftali Elkin, December 2003.  
 Technion, ClubNet, March 2003.  
 Université de Paris-sud — Paris 11, LRI, Laboratoire de Recherche en Informatique d'Orsay, host Prof. Joffroy Beauquier, March 2003.  
 Cornell, host Prof. Robbert Van Renesse, September 2004.  
 Tel-Aviv University, host Prof. Yossi Azar and Prof. Amos Fiat, December 2004.  
 Chalmers University of Technology, Sweden, host Prof. Marina Papatriantafidou, January, 2005.  
 Texas A&M University, host Prof. Jennifer Welch, January 2005.  
 IBM Research Laboratory, Haifa, host Dr. Hillel Kolodner, April 2005.  
 Microsoft Research Cambridge UK, host Prof. Maurice Herlihy, July 2005.  
 Technical University Berlin, host Prof. Dr. Hans-Ulrich HeiB, September 2005.  
 Intel Research, Berkeley, host Dr. Petros Maniatis, August 2007.  
 Google Research, Mountain View, host Dr. Doug Orr, August 2007.  
 IIT Bombay, host Prof. Varsha Apte, December 2007.  
 HP Labs India, host Geetha Manjunath, December 2007.  
 HP India Bangalore, host Ramamurthy Badrinath, December 2007.

Bar-Ilan University, host Prof. Doron Peled, February 2008.  
Hebrew University, hosts Dr. Sara Cohen and Prof. Dror Feitelson, February 2008.  
CTI, host Prof. Paul Spirakis, FRONTS, March 2008.  
BGU Communication Systems Engineering, host Dr. Rachel Ben-Eliyahu-Zohary, March 2008.  
MIT, host Prof. Nancy Lynch, April 2008.  
Dagstuhl-Seminar on Fault-Tolerant Distributed Algorithms on VLSI Chips, September 2008.  
Technion, ClubNet, December 2008.  
Bertinoro, FRONTS, January 2009.  
Ben-Gurion University, Alternative Computing Day, February 2009.  
Google Zurich EMEA Faculty Summit, February 2009.  
MIT, host Prof. Nancy Lynch, September 2009.  
Bertinoro, November 2009.  
High-School Computer Science Teachers Assembly at BGU, December 2009.  
Universitat Politcnica de Catalunya (UPC), FRONTS, February 2010.  
Bar-Ilan University, Engineering Faculty, April 2010.  
Université de Paris-sud — Paris 11, LRI, Laboratoire de Recherche en Informatique d’Orsay, host Prof. Sylvie Delaet, July 2011.  
Verisign Research Grant Symposium, October 2011.  
Sapienza Universita di Roma, host Andrea Vitaletti, November 2011.  
Technion, ceClub, December 2011.

### **Research Grants:**

- g1. (\*\*) Grant from the Ministry of Science, “Monitoring and Repairing in Distributed Systems”, \$40K, 1995-1998.
  
- g2. Intel Academic Grant, “Multiprocessor Network Interface for High-Speed Networks”, \$15K, 1996 \$15K in 1997 and \$25K in 1998.
  
- g3. Intel, equipment for research and projects laboratory, \$25K, 1996. (with Klara Kedem, Michael Elhadad and Michael Codish).
  
- g4. Wideband Communication MAGNET Consortium, “Content Description in High-Speed Network” \$40K, 1997. (with Michael Elhadad).
  
- g5. (\*\*) Infrastructure Grant from the Ministry of Science, “Tbit/sec Optical ATM Communications Networks: Dynamic WDM Technology and Devices” 47K, 100K, 40K Shekels, in 1997-8-9, respectively (with Dan Sadot, Moshe Tur, Amotz Bar Noy, Shay Kutten, Yaron Silberberg).
  
- g6. (\*\*) Grant from the Ministry of Science, Israel-India scientific cooperation, “Adaptive Correcting Codes for Multimedia Over ATM” \$45K. 1998-1999. (with Kamala Krithivasan, Avraham Melkman, C. Pandu Rangan).
  
- g7. Ben-Gurion University, Seed grant, 20K Shekels, 1999.
  
- g8. IBM Faculty Award, “Data Sharing Facility, Serverless Network File System”, \$40K, 2001-2003. “Self-Stabilizing Autonomic Recoverer”, \$10K, 2003-2004.

- g9. (\*\*) NSF CCR-0098305, “Self-Stabilizing Group Communication for Mobile Environments”, consultant \$33K, 2001-2005 (with Jennifer Welch and Nancy Lynch).
- g10. Israeli Defense Secretary (MAFAT), “Optical Solutions for TSP and Related Problems”, \$75K, 2002 (with Ephraim Korach and Joseph Rosen).
- g11. STRIMM MAGNET Consortium, \$150K 2001-2003, (with Amos Beimel).
- g12. Intel Academic Grant, “Optical Implementation of Combinatorial Bounded Non-Deterministic Turing Machines” (with Joseph Rosen) \$20K, 2004.
- g13. Deutsche Telekom, “Security for Information and Communication Technologies” (with Yuval Elovici and Ehud Gudes) \$175K, 2004, \$100K, January 2005, \$125, March 2005.
- g14. (\*\*) Ministry of Science and Technology, “Network of sensors based on “smart dust” concept”, (with Shlomi Arnon and Yael Nemirovsky) 380K Shekels, May 2005-8.
- g15. Deutsche Telekom, “Netshield and Netprotect” (with Yuval Elovici, Ehud Gudes and Yuval Shahar) **3.6 Million Dollars**, June 2005.
- g16. Intel, “Multi-Core research and study”, \$10K, (with Uri Abraham and Danny Hendler) October 2006.
- g17. Deutsche Telekom, “AAA” (with Ehud Gudes and others) \$120K, October 2006.
- g18. Nato Science for Peace and Security Programme, Collaboration Linkage Grant, (with Guy Tel-Zur, and Hugo Guterman) \$25.9K for many (also non Israeli) partners.
- g19. (\*\*) 7<sup>th</sup> Framework Program – Information Communication Technologies (ICT) EC Ref. 215270, FRONTS, 200K Euro, 2007-2010.
- g20. Intel, “Multi-Core lab.”, \$20K, with Danny Hendler, November 2007.
- g21. “Self-Stabilizing and Efficient Robust Uncertainty Management,” US Air-Force, (Grant 083029 with Michael Segal and Ohad Ben-Shahar), \$35K 2008, \$55K 2009, \$55K 2010.
- g22. “PC-Health,” \$15K, Microsoft, March 2009.
- g23. (\*\*) “Transactional Memories: Foundations, Algorithms, Tools, and Applications,” (Euro-TM) EU Cost, April 2010.
- g24. Deutsche Telekom, “Customer Data Leakage Prevention” (with Yuval Elovici and others), 2008-Present.
- g25. Deutsche Telekom, “Privacy Keeper” (with Bracha Shapira and others), 2008-2010.

g26. Israeli Defense Secretary (MAFAT), “Sensor-data fusion,” \$55K, 2010 (with Asaf Choen and Guy Leshem).

g27. Verisign 25th Anniversary of .COM grant, “Techniques for Achieving Positive Anonymity,” \$75K (one of four across the world) 2011.

g28. (\*\*) Grant from the Ministry of Science bi-national Russia Israel, “Nanotechnology Based Optical Computing”, 144K Shekels, 2011-2013.

g29. (\*\*) Israel Science Foundation (ISF), “Virtual Automata for Swarm Computing,” 187K Shekels, 2011-2015.

g30. Deutsche Telekom, “BizDroid” (with Bracha Shapira and others), 2011-present.

g31. Cabarnit Cyber security MAGNET Consortium, 252K Shekels, (with Asaf Cohen, Niv Gilboa, Chen Avin and Ran Giladi) 2012-present.

### **Additional Information:**

#### **Reviewer:**

*Clore Israel Foundation*

*NSERC Natural Sciences and Engineering Research Council of Canada*

*IEEE Transactions on Information Theory*

*Ministry of Science and Technology Proposals*

*Mathematical Reviews*

*Journal of Aerospace Computing, Information, and Communication*

*Journal of High Speed Networks*

*Research Grants Council of Hong Kong*

*BSF Proposal*

*Acta Informatica*

*ACM Transactions on Computer Systems*

*Telecommunications Systems Journal*

*IEEE Transactions on Computers*

The Israel Science Foundation,

*Journal of Computer and Systems Science,*

*SIAM Journal on Computing,*

*SIAM Journal on Discrete Mathematics,*

*IEEE Transactions on Parallel and Distributed Systems,*

*Information and Computation,*

*Mathematical Systems Theory,*

*Parallel Processing Letters,*

*Chicago Journal of Theoretical Computer Science,*

*Distributed Computing,*

*Journal of Algorithms,*

*Journal of Parallel and Distributed Systems,*

*IEEE/ACM Transactions on Networking,*

*IEEE Transactions on Software Engineering,*  
*Information Processing Letters,*  
*Theoretical Computer Science A.*  
*Artificial Intelligence Journal,*  
University Research Chair (URC) program Award.  
*ACM Transactions on Algorithms*  
Reviewer for several conferences including PODC, WDAG/DISC, SSS, STOC, FOCS.

### Scientific Committees at Conferences:

- sc1. *Symposium on Self-Stabilizing Systems*, **steering committee** (1995-present).
- sc2. *Second Workshop on Self-Stabilizing Systems* (WSS 1995), University of Nevada, Las Vegas, May 1995, **Program Chair**.
- sc3. *Seminar Artzi* — program and organization, December 1995.
- sc4. *5th Israeli Symposium on Theory of Computing and Systems*, Program committee member, (ISTCS 1997), June 1997.
- sc5. *16th Annual ACM Symp. on Principles of Distributed Computing*, Program committee member, (PODC 1997), August 1997.
- sc6. *3rd workshop on Self-Stabilizing Systems*, Program committee member, (WSS 1997), August 1997.
- sc7. *International Conference On Principles Of DIStributed Systems*, Program committee member, (OPODIS 1997), December 1997.
- sc8. Dagstuhl-Seminar on self-stabilization, program and organization, August 17-21, 1998.
- sc9. *International Conference on Principles Of DIStributed Systems*, Program committee member, (OPODIS 1998), December 1998.
- sc10. *4th workshop on Self-Stabilizing Systems*, Program committee member, (WSS 1999), 1999.
- sc11. *13th International Symposium on DIStributed Computing*, Program committee member, (DISC 1999), 1999.
- sc12. *Nineteenth Annual Joint Conference of IEEE Computer and Communications Societies* (INFOCOM 2000), Program committee member, 2000.
- sc13. *Opening ceremony of the Computer Science Department* — scientific program organization, March 2000.
- sc14. *7th International Colloquium on Structural Information and Communication Complexity* (SIROCCO 2000) Program committee member, 2000.
- sc15. Dagstuhl-Seminar on self-stabilization, program and organization, October 21-27, 2000.
- sc16. *21st International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2001), 2001.

- sc17. *Workshop on Algorithms and Data Structures (WADS 2001)*, Program committee member, 2001.
- sc18. *5th workshop on Self-Stabilizing Systems*, Program committee member, (WSS 2001), 2001.
- sc19. *15th International Symposium on DIStributed Computing*, Program committee member, (DISC 2001), 2001.
- sc20. *21st Annual ACM Symp. on Principles of Distributed Computing*, Program committee member, (PODC 2002), August 2002.
- sc21. *9th International Conference on Parallel and Distributed Systems*, (ICPADS 2002), Vice PC Chair Distributed Systems, December 2002.
- sc22. *23rd International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2003), 2003.
- sc23. *6th International Symposium on Self-Stabilizing Systems*, Program committee member, (SSS 2003), 2003.
- sc24. *18th International Symposium on DIStributed Computing*, Program committee member, (DISC 2004), 2004.
- sc25. *25th International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2005), 2005.
- sc26. *24th Annual ACM Symp. on Principles of Distributed Computing*, Program committee member, (PODC 2005), August 2005.
- sc27. *5th IEEE International Workshop on Algorithms for Wireless Mobile Ad Hoc and Sensor Networks*, Program committee member, (WMAN 2005), April 2005.
- sc28. The 6th International Workshop on Information Security Applications Program committee member, (WISA 2005), August 2005.
- sc29. Dagstuhl-Seminar on Anonymous Communication and its Applications, program and organization, October 9-14, 2005.
- sc30. Israeli Conference on Software Engineering and Management, Program committee member, (ICSEM 2005), June 9, 2005.
- sc31. International Conference on Autonomous and Autonomic Systems, (ICAS2005) Technical program committee member.
- sc32. *International Conference on Principles Of DIStributed Systems*, Program committee member, (OPODIS 2005), 2005.
- sc33. *12th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2006)* Program committee member, 2006.
- sc34. *26th International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2006), 2006.
- sc35. *20th International Symposium on DIStributed Computing*, (DISC 2006), **Program Chair**.

- sc36. *Second International Conference on Distributed Computing in Sensor Systems (DCOSS 2006)*, 2006.
- sc37. International Conference on Autonomous and Autonomic Systems, (ICAS2006) Technical program committee member.
- sc38. *ALGOSENSORS*, Program committee member, 2006.
- sc39. *4th IEEE International Conference on Information Technology: Research and Education (ITRE)*, Program committee member, 2006.
- sc40. *8th International Symposium on Stabilization, Safety, and Security of Distributed Systems* Program committee member, (SSS 2006), 2006.
- sc41. *International Symposium on Distributed Computing*, **steering committee (2006-2009) member at large (2011-present)**.
- sc42. *27th International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2007), 2007.
- sc43. *Seminar Artzi in distributed computing at BGU* — program and organization, December 2006.
- sc44. *Haifa Systems & Storage Workshop*, SyStor 2207, IBM and the Technion program committee member, October 2007.
- sc45. *9th International Symposium on Stabilization, Safety, and Security of Distributed Systems* Program committee member, (SSS 2007), 2007.
- sc46. Dagstuhl-Seminar on Fault-Tolerant Distributed Algorithms on VLSI Chips, program and organization, September 7-12, 2008.
- sc47. *ALGOSENSORS*, Program committee member, 2008.
- sc48. *Networking Seminar Artzi 2008*, Cisco, Netanya, Program committee co-chair with Idit Keidar, May 2008.
- sc49. *First PerAda Workshop (SASO 2008)*, Program committee member, October 2008.
- sc50. *International Workshop on Optical SuperComputing, 2008 (OSC08)*, Program committee chair, August 2008.
- sc51. *10th International Symposium on Stabilization, Safety, and Security of Distributed Systems* Program committee member, (SSS 2008), 2008.
- sc52. *12th International Conference on Principles Of Distributed Systems*, Program committee member, (OPODIS 2008), 2008.
- sc53. *23rd IEEE International Parallel and Distributed Processing Symposium*, (IPDPS), 2009.
- sc54. *ALGOSENSORS*, **Program committee chair**, 2009.
- sc55. *SYSTOR, the Israeli Experimental Systems Conference*, 2009.
- sc56. *International Conference on Security and Cryptography*, SECRIPT 2009.

- sc57. *11th International Symposium on Stabilization, Safety, and Security of Distributed Systems* Program committee member, (SSS 2009), 2009.
- sc58. *30th International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2010), 2010.
- sc59. *International Workshop on Optical SuperComputing, 2009 (OSC09)*, **Program committee chair**, November 2009.
- sc60. *11th International Conference on Distributed Computing and Networking (ICDCN10)*, Program committee member, January 2010.
- sc61. *SYSTOR, the Israeli Experimental Systems Conference*, Program committee member, 2010.
- sc62. *30th International Conference on Distributed Computing Systems*, Program committee member, (ICDCS 2010), 2010.
- sc63. *The 10<sup>th</sup> Haifa Workshop on Interdisciplinary Applications of Graphs, Combinatorics and Algorithms*, Program committee member, 2010.
- sc64. *12th International Symposium on Stabilization, Safety, and Security of Distributed Systems* **General Chair**, (SSS 2010), 2010.
- sc65. *International Workshop on Optical SuperComputing, 2010 (OSC10)*, **Program committee chair**, 2010.
- sc66. *25th IEEE International Parallel and Distributed Processing Symposium*, (IPDPS), 2011.
- sc67. *SYSTOR, the Israeli Experimental Systems Conference*, 2011.
- sc68. *4th International Workshop on Physics and Computation*, 2011.
- sc69. *3rd Annual Workshop on Simplifying Complex Networks for Practitioners (Simplex)* 2011.
- sc70. *13th International Symposium on Stabilization, Safety, and Security of Distributed Systems* (SSS 2011), track chair, 2011.
- sc71. *Spatial Computing Workshop*, 2011.
- sc72. *International Workshop on Software Knowledge*, (SKY) 2011.
- sc73. *ALGOSENSORS*, Program committee member, 2011.
- sc74. *Seventh ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing*, (FOMC), Program committee member, 2011.
- sc75. *26th IEEE International Parallel and Distributed Processing Symposium*, (IPDPS), Program committee member, 2012.
- sc76. *13th International Conference on Distributed Computing and Networking (ICDCN12)*, Program committee member, January 2012.
- sc77. *SYSTOR, the Israeli Experimental Systems Conference*, Program committee member, 2012.
- sc78. *14th International Symposium on Stabilization, Safety, and Security of Distributed Systems* (SSS 2012), Program committee member, 2012.

sc79. *26th International Symposium on DIStributed Computing*, Program committee member, (DISC), 2012.

sc80. *Spatial Computing Workshop*, 2012.

sc81. *Sixth International Conference on FUN with Algorithms*, Program committee member, (FUN), 2012.

c82, *Eight ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing*, Program committee member, (FOMC), 2012.

### **Industrial Committees:**

in1. *Committee for the selection of the best Israeli Hi Tech CEOs for 2010*.

in2. *Committee for the Israeli mobile challenge 2011*.

### **Member in graduate student committees:**

Chensdian Lin, Ph.D., Univ. of Chicago, June 1995.

Anat Bremler, M.Sc., Tel-Aviv Univ., Oct. 1996.

Itai Zilbershtein, M.Sc., EE Dept. Ben-Gurion Univ., Dec. 1997.

Igal Roytblat, M.Sc., EE Dept. Ben-Gurion Univ., Feb. 1998.

Zvi Ostfeld, Ph.D., Tel-Aviv Univ., Apr. 1998.

Arnon Levy, M.Sc. IE Dept. Ben-Gurion Univ., Nov. 1998.

Rony Ohayon, Ph.D. candidate, CSE Dept. Ben-Gurion Univ., Sept. 1999.

Yariv Cohen, M.Sc., IE Dept. Ben-Gurion Univ., Jan. 2000.

Nikolai Berezansky, M.Sc., CS Dept. Ben-Gurion Univ., May 2001.

Alex Gontmakher, Ph.D. candidate, CS Dept. Technion, June 2001.

Emanuel Dar, Ph.D., BIU, Feb. 2002.

Rami Rashkovits, Ph.D. candidate, IE Dept. Technion, June 2002.

Roni Ram, M.Sc., Technion, Sept. 2002.

Yoav Stahl, M.Sc., CS Dept. Ben-Gurion Univ., Oct. 2002.

Dudu Amzallag, IE Dept. Ben-Gurion Univ., Dec. 2002.

Dganit Miron Ali-Raz, ECE Dept. Ben-Gurion Univ., May 2003.

Tamar Pinhas, M.Sc., CS Dept. Ben-Gurion Univ., May. 2003.

Rony Ohayon, Ph.D., IE Dept. Ben-Gurion Univ., July 2003.

Itamar Elhannany, Ph.D, EE Dept. Ben-Gurion Univ., July 2003.

Shirlee Megidish, MSc, CS Dept. Ben-Gurion Univ., Nov. 2003.

Gregory V. Chockler, Ph.D, CS Hebrew University, Dec. 2003.

Dean H. Lorenz, PhD, EE Dept. Technion, March 2004.

Liran Liss, PhD Candidate, EE Dept. Technion, June 2004.

Svetlana Daichman, MSc, IE Dept. Ben-Gurion Univ., Dec. 2004.

Roi Zivan, PhD Candidate, CS Dept. Ben-Gurion Univ., Jan. 2005.

Itsik Kitroser, MSc, CS Dept. Ben-Gurion Univ., Jan. 2005.

Amit Dvir, MSc CSE Dept. Ben-Gurion Univ., Jan. 2005.

Anders Gidenstam, PhD Candedncy, Chalmers University of Technology, Sweden, Jan. 2005.

Judit Hasson, MSc, CS Dept. Ben-Gurion Univ., March 2005.

Ilanit Moodahi, MSc, CS Dept. Ben-Gurion Univ., April 2005.

Nir Levin, MSc, CS Dept. Ben-Gurion Univ., June 2005.

Alon Kama, Phd Candidate, CS Dept. Technion, July 2005.  
 Tina Nolte, PhD Reader, Dept. of EE and CS, MIT, July 2005.  
 Shira Zuker, Phd Candidate, CS Dept. Ben-Gurion, August 2005.  
 Dana Yagil, MSc, IE Dept. Ben-Gurion, September 2005.  
 Ariel Daliot, Phd Candidate, CS Dept. Hebrew University, November 2005.  
 Naama Ben-Mordechai, MSc, CS Dept. Ben-Gurion Univ., November 2005.  
 Nati Shaked, PhD Candidate, ECE Dept. Ben-Gurion Univ., Jan. 2006.  
 Michael Okun, PhD, CS Hebrew University, March 2006.  
 Amit Dvir, PhD Candidate, CSE Dept. Ben-Gurion Univ., April 2006.  
 Itsik Kitroser, PhD Candidate, CSE Dept, Ben-Gurion Univ., May 2006.  
 Anders Gidenstam, PhD Dissertation, Chalmers University of Technology, Sweden, Sept. 2006.  
 Gabi Kliot, PhD Candidate, CS Dept. Technion, Janaury 2007.  
 Enav Weinreb, PhD Dissertation, CS Dept. Ben-Gurion Univ., February 2007.  
 Ezra Hoch, Phd Candidate, CS Dept. Hebrew University, January 2008.  
 Alex Kogan, MSc, CS Dept. Technion, April 2008.  
 Olivier Peres, PhD Dissertation, LRI, Paris 11, September 2008.  
 Tina Nolte, PhD Dissertation, MIT, October 2008.  
 Gabi Kliot, PhD Dissertation, CS Dept. Technion, February 2009.  
 Dov Shirtz, PhD Candidate, ISE Dept. BGU, February 2010.  
 Arye Zahavi, PhD Candidate, CS Dept. BGU, March 2010.  
 Yuval Fledel, MSc, ISE Dept. BGU, April 2010.  
 Ido Ben-Zion, MSc, CSE Dept. BGU, May 2010.  
 Adi Suisa, PhD Candidate, CS Dept. BGU, June 2010.  
 Robert Moskovitch, PhD Dissertation, ISE Dept. BGU, November 2010.  
 Tomer Heber, MSc Dissertation, CS Dept. BGU, November 2010.  
 Yair Allouch, PhD Candidate, CSE Dept, BGU, January 2011.  
 Ezra Hoch, Phd, CS Dept. Hebrew University, March 2011.  
 Gal Bar-Nissan, MSc Dissertation, December 2011.  
 Moshe Ivry-Zazon, PhD Candidate, CS Dept. BGU, December 2011.  
 Dimitri Bykhovsky, PhD candidate, ECE Dept. BGU, Janaury 2012.

**Member in tenure and promotion committee:**

Tenure committee, BGU, July 2001.  
 Promotion to Senior Lecturer committee, BGU, August 2001.  
 Tenure Track and Promotion Committee, Netanya Academic College, September 2001, May 2002.  
 Tenure committee, BGU, January 2002.  
 Tenure committee, BGU, March 2003.  
 Promotion to lecturer committee, BIU, April 2004, June 2004, Janaury 2007, May 2007.  
 Tenure committee, BGU, June 2004.  
 Tenure committee, BGU, March 2005.  
 Tenure committee, BGU, May 2006.  
 Promotion committee, Université de Paris-sud — Paris 11, LRI, Habilitation Exam of Sebastien Tixeuil, May 2006.  
 Promotion to Senior Lecturer committee, BGU, December 2006.  
 Promotion to Associate Professor and Tenure, BIU, Janaury 2007.  
 Promotion committee, Université de Paris-sud — Paris 11, LRI, Habilitation Exam of Colette Johnen, Nov. 2007.  
 Tenure committee, BGU, February 2009.

Promotion committee, Université Pierre & Marie Curie, Paris 6, Habilitation Exam of Maria Potop-Butucaru (Gradinariu), Dec. 2010.

Promotion to Senior Lecturer committee, BGU, December 2010.

Promotion to Senior Lecturer committee, BGU, January 2011.