

Idit Keidar – Curriculum Vitae

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Current Address

Technion - Israel Institute of Technology,
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Personal

Born: May 22, 1967.
Citizenship: Israeli.

Academic Degrees

Ph.D. Computer Science, Hebrew University of Jerusalem.	Oct 1998
M.Sc. Computer Science, Hebrew University, <i>Summa cum laude</i> .	Apr 1994
B.Sc. Computer Science and Mathematics, Hebrew University, <i>Summa cum laude</i> .	Aug 1992

Employment

Academic Appointments

Department of Electrical Engineering, Technion, Associate Professor with Tenure	Apr 2007 – current
Department of Computer Science, Cornell University, Visiting Professor	Jul-Aug 2009
Department of Electrical Engineering, Technion, Senior Lecturer	Mar 2002 – Mar 2007
MIT Lab for Computer Science, Postdoctoral Research Associate	Oct 1998 – Jul 2002
Computer Science Institute, Hebrew University, Teaching and Research Assistant	Oct 1992 – Oct 1998

Professional Experience

Microsoft Research Silicon Valley, Consulting Researcher	Jul – Aug 2006
BBN Technologies (a Verizon Company), Consultant	Mar 2002 – Aug 2002
IBM Almaden Research Center, Summer Visitor	Summer of 1996

Military and Community Service

Israel Defense Forces, Officer, Programmer, Project Leader	Sep 1986 – Aug 1990
Community Service Year, Israeli Scouts	Sep 1985 – Aug 1986

Teaching

Technion

Operating System Structure (9 times), Computer Engineering undergraduate required course.
 Awarded **Citations for Excellence in Teaching** in Winter 2007–2008 and Winter 2008–2009 terms.
Principles of Reliable Distributed Systems (7 times), top undergraduate/graduate course I developed.
Advanced Topics in Reliable Distributed Systems (6 times), graduate course I developed.
VLSI Architecture Seminar (twice), with Israel Cidon, Ran Ginosar, and Avinoam Kolodny.
Operating System Structure for Intel *M.EE* program, External Studies School, Fall 2006–2007.

Hebrew University of Jerusalem

Programming Lab (twice as instructor, once as teaching assistant), required undergraduate course.
Advanced Seminar in Computer Networks and Protocols (instructor), graduate level.
Computer Communication and Applications (teaching assistant).
Theory of Computation (teaching assistant).
Calculus, and *Algebra* (teaching assistant in Department of Mathematics).

Graduate Students and Postdocs Supervised

Current Postdocs

Dr. Rui Fan, since Oct 2009.
Dr. Mark Silberstein, since Mar 2009.

Former (Graduated) Students

Ph.D.

Roger Khazan, MIT, Jun 2002, co-supervised with Nancy Lynch. Employed by *MIT Lincoln Laboratory*.
Roie Melamed, (direct Ph.D.), Technion, Jul 2006. Employed by *IBM Research Haifa Labs*.
Gal Badishi, (direct Ph.D.), Technion, Oct 2007. Employed by *Rupin College*.
Edward Bortnikov, Technion, Aug 2008, co-supervised with Israel Cidon. Employed by *Yahoo! Research*.
Maxim Gurevich, Technion, Jan 2010, co-supervised with Ziv Bar-Yossef. Employed by *Yahoo! Research*.

M.Sc.

Amir Sasson, Technion, May 2004. Employed by *IBM Research Haifa Labs*.
Nadav Lavi, Technion, May 2005, with Israel Cidon. Employed by *Alvarion Inc*.
Alexander Shraer, Technion, May 2006. Currently a Ph.D. student at the Technion.
Uri Schonfeld, Technion, Jun 2006, with Ziv Bar-Yossef. Currently a Ph.D. student at *UCLA*.
Ehud Shavit, Technion, Jul 2007, with Israel Cidon. Employed by the Technion Research Authority.
Roman Gindin, Technion, Jul 2007, with Israel Cidon. Employed by *AMIMON Inc*.
Oleg Romanov, Technion, Aug 2008. Employed by *ACS Motion Control Inc*.
Alex Friedman, Technion, Mar 2009.
Amit Berman, **M.Sc.**, Technion, Feb 2010. Currently a Ph.D. student at the Technion.

M.Eng.

Kyle Ingols, MIT, May 2000. Employed by *MIT Lincoln Laboratory*.

Igor Tarashchanskiy, MIT, Aug 2000.

Omar Bakr, MIT, Feb 2003. Ph.D. student at the *University of California, Berkeley*.

Current Students

Alexander Shraer, **Ph.D.**, since Oct 2006.

Zvika Guz, **Ph.D.** (direct), since Dec 2004, with Uri Weiser and Avinoam Kolodny.

Nathaniel Azuelos, **Ph.D.**, since Mar 2009.

Ittay Eyal, **Ph.D.** (direct), since Jul 2008, with Raphael Rom.

Dmitri Perelman, **Ph.D.** (direct), since Dec 2008.

Liat Atsmon, **M.Sc.**, since Jun 2009.

Dmitri Basin, **M.Sc.**, since Nov 2009.

Selected Professional Activity

Columnist (Column Editor) ACM SIGACT News Distributed Computing Column, since Aug 2007.

Guest Editor Springer Distributed Computing, special issue with selected papers from DISC 2009.

Steering Committee Member

Member at-Large, ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC) Steering Committee, Jul 2003 – Jul 2006.

Member, Int'l Symp. on DIStributed Computing (DISC) Steering Committee, Sep 2008 – Sep 2011.

Workshop Organizer

1st W'shop on Large-Scale Distributed Systems and Middleware (LADIS'07), Haifa, Israel, Mar 2007; with Gregory Chockler, Eliezer Dekel, and Roy Friedman.

3rd Bertinoro W'shop on Future Directions in Distributed Computing (FuDiCo III): Building MAD Systems, Bertinoro, Italy, Jun 2007; with Lorenzo Alvisi and Mike Dahlin.

4th Israeli Networking Seminar, Cisco, Natanya, Israel, May 2008; with Shlomi Dolev.

Israeli Chip MultiProcessor (CMP) Day III, Haifa, Israel, Feb 2009; with Avi Mendelson and Nir Shavit.

Advisory Board Member The Euro-Par Conference Series Advisory Board, since 2006.

Award Committee Member ACM PODC and EATCS DISC Edsger W. Dijkstra Prize in Distributed Computing, 2009.

Grants Committee Member Israeli Ministry of Science, Jan 2009.

Program Committee Chair and Proceedings Editor 23rd Int'l Symp. on DIStributed Computing (DISC'09), Sep 2009, Lecture Notes in Computer Science (LNCS) Volume 5805.

Program Committee Vice-chair

Vice-chair, *Distributed Systems and Algorithms* topic, Euro-Par 2005.

Vice-chair, *Fault Tolerant and Dependable Systems* area, 23rd IEEE Int'l Conf. on Distributed Computing Systems (ICDCS'03), May 2003.

Co-vice-chair, *Distributed Algorithms* area, 21st IEEE Int'l Conf. on Distributed Computing Systems (ICDCS'01), Apr 2001.

Program Committee Member

6th W'shop on Hot Topics in System Dependability (HotDep '10), collocated with OSDI, Oct 2010.
 IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN'10), Performance and Dependability Symposium (PDS), Jun 2010.
 The Israel Experimental Systems Conference (SYSTOR'10), May 2010.
 23rd Int'l Symp. on DIStributed Computing (DISC'09), Sep 2009 (Chair).
 The Israel Experimental Systems Conference (SYSTOR'09), May 2009.
 4th W'shop on Hot Topics in System Dependability (HotDep'08), collocated with OSDI, Dec 2008.
 USENIX Symp. on Operating Systems Design and Implementation (OSDI'08), Dec 2008.
 IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN'08), Dependable Computing and Communications Symp. (DCCS), Jun 2008.
 1st Int'l Conf. on Autonomic Computing and Communication Systems (Autonomics'07), Oct 2007.
 26th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'07), Aug 2007.
 27th Int'l Conf. on Distributed Computing Systems (ICDCS'07), Fault Tolerance and Dependability, Jun 2007.
 IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN'06), Dependable Computing and Communications Symp. (DCCS), Jun 2006.
 13th Int'l Colloquium on Structural Information and Communication Complexity (SIROCCO'06), Jul 2006.
 1st Int'l W'shop on Dynamic Distributed Systems (IWDDS), collocated with ICDCS'06, Jul 2006.
 Euro-Par 2005, Aug-Sep 2005 (vice-chair).
 23rd ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'04), Jul 2004.
 Int'l World Wide Web Conf. (WWW2004), Performance and Reliability track, May 2004.
 ACM W'shop on Survivable and Self-Regenerative Systems (ACM-SRS), Oct 2003, collocated with CCS-10.
 ACM SIGPLAN Symp. on Principles and Practice of Parallel Programming (PPoPP'03) Jun 2003.
 23rd IEEE Int'l Conf. on Distributed Computing Systems (ICDCS'03), Fault Tolerant and Dependable Systems Track, May 2003 (vice chair).
 21st ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'02), Jul 2002.
 Int'l Parallel and Distributed Processing Symp. (IPDPS'02), (IEEE and ACM), Apr 2002.
 20th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'01), Aug 2001.
 21st IEEE Int'l Conf. on Distributed Computing Systems (ICDCS'01), Distributed Algorithms Track, Apr 2001 (vice chair).
 5th annual IEEE W'shop on Fault-Tolerant Parallel and Distributed Systems (FTPDS), collocated with IPDPS'01, 2001. 14th Int'l Symp. on DIStributed Computing (DISC'00), Oct 2000.
 6th annual IEEE W'shop on Fault-Tolerant Parallel and Distributed Systems (FTPDS), collocated with IPDPS'00, 2000.

Journal Referee

The SIAM Journal on Computing (SICOMP).
 ACM Transactions on Computer Systems (TOCS).
 Theoretical Computer Science (TCS).
 Journal of Algorithms.
 Springer Distributed Computing.
 IEEE Transactions on Parallel and Distributed Systems (TPDS).
 IEEE Transactions on Computers.
 IEEE Journal on Selected Areas in Communications (JSAC).
 Journal of Computer and Systems Science (JCSS).
 Journal of Parallel and Distributed Computing (JPDC).

Springer World Wide Web Journal.
 Information Processing Letters (IPL).
 Parallel Processing Letters (PPL).

External Referee for Conferences

The ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC) 1997, 1998, 2000, 2003, 2008, and 2010.
 The Int'l Symp. on DIStributed Computing (DISC) (formerly WDAG) 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, and 2007.
 The IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN) 2001, 2002, 2003, 2004, 2005, 2007, and 2009.
 The 9th Latin American Theoretical Informatics Symposium (LATIN) 2010.
 The ACM Symp. on Parallelism in Algorithms and Architectures (SPAA) 2009.
 The ACM Int'l Conf. on Supercomputing (ICS) 2008.
 The ACM Symp. on Principles of Database Systems (PODS) 2008.
 The USENIX Symp. on Networked Systems Design & Implementation (NSDI) 2007.
 The IEEE Symp. on Reliable Distributed Systems (SRDS) 2003 and 2007.
 IEEE INFOCOM 2006 and 2009.
 The Int'l Conf. on Distributed Computing and Networking (ICDCN) 2010.
 The IEEE Int'l Conf. on Distributed Computing Systems (ICDCS) 2005.
 GLOBECOM Wireless Communications 2005.
 The European Dependable Computing Conf. (EDCC) 2005 and 2010.
 The Int'l Symp. Pacific Rim Dependable Computing (PRDC) 2004.
 The IFIP Int'l Conf. on Theoretical Computer Science (TCS) 2002.
 The IEEE Int'l Symp. on Network Computing and Applications (NCA) 2001.
 The Hawaii Int'l Conf. on System Sciences (HICSS) 1995.

Reviewer

The Israel Science Foundation (ISF).
 The Swiss National Science Foundation (SNSF).

Departmental Activities

Current activities

Member, Academic Development (Search) Committee, since Oct 2008.
Member, Graduate Studies Committee, since Apr 2008; Member of PhD student admission sub-committee since Jan 2009.
Academic head the Networked Software Systems Laboratory, since Sep 2004.
Manager, Knowledge Center: Infrastructure for CMP (Chip MultiProcessor) Research, since Jan 2008.

Former activities

Chair, Department Representation Committee, Oct 2007 – Nov 2008. Responsible for the department's representation on the web since Oct 2002.
Academic advisor for two undergraduate students in the Technion excellence program, 2004 – 2008.
 Led **evaluation and revision of undergraduate Computer Engineering curricula**, 2007.
 Led a project **revamping the department's web page**, 2006–2008.
Member, Kasher project awards committee, 2006–2007.

Member, committee for termination of studies, Nov 2005 – Jan 2006.

Member, joint CS-EE Computer Engineering track committee, Oct 2004 – Nov 2006.

Member, committee for encouraging women to study engineering, Oct 2002 – Nov 2006. **Chaired** the committee in the academic year 2002–2003. Organized an open day for female high school students.

Advisor (Consultant) to undergraduate Computer Engineering students, Oct 2002 – Nov 2006.

Invited Presentations

Keynote Lecture

The Israel Experimental Systems Conference (SYSTOR'10), May 2010.

Tutorials

On the Cost of Fault-Tolerant Consensus When There Are No Faults, with Sergio Rajsbaum, at the 21st ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC), Jul 2002, Monterey, California.

Also presented (by my co-author Sergio Rajsbaum) at the 1st Latin American Symp. on Dependable Computing (LADC), São Paulo, Brazil, Oct 2003, and at the 2nd French-Mexican School on Cooperative Distributed Systems, Sep–Oct 2003, IRISA, Campus de Beaulieu Rennes, France.

Local computations in large-scale sensor and wireless mesh networks (WMNs), at the Minema Winter School, Anzere, Switzerland, Feb 2007.

Colloquia and Seminars

MIT EECS department Special Seminar.

MIT Theory of Computation seminar.

MIT Theory of Distributed Systems Group seminar (3 times).

EPFL Distributed Programming Laboratory and Programming Methods Laboratory, colloquium (twice).

Brown University, CS department colloquium.

Tel Aviv University, CS department colloquium.

Hebrew University, CS department colloquium.

University of Connecticut, invited lecture.

Ben-Gurion University, seminar.

Cornell University, seminar (4 times).

University of California at Berkeley, seminar.

Emory University, seminar.

BBN Technologies, invited lecture (twice).

AT&T Research, Murry Hill, NJ, invited lecture.

IBM Almaden Research Center, invited lecture.

KTH, Stockholm, Sweden, invited lecture.

Vrije University, Netherlands, invited lecture.

Sapienza University, Rome, invited lecture.

Invited Workshop Presentations

1. Keidar and K. Marzullo. **The Need for Realistic Failure Models in Protocol Design.** *Position paper in the 4th Information Survivability W'shop (ISW)* (sponsored by IEEE) 2001/2002, Vancouver,

Canada, Mar 2002.

- I. Keidar. **Challenges in Evaluating Distributed Algorithms**. In the *Int'l W'shop on Future Directions in Distributed Computing (FuDiCo)*, Bertinoro, Italy, Jun 2002.
- G. Badishi, I. Keidar, and R. Melamed. **Towards Survivability of Application-Level Multicast**. In the *2nd Bertinoro W'shop on Future Directions in Distributed Computing (FuDiCo II): S.O.S. Survivability: Obstacles and Solutions*, Bertinoro, Italy, Jun 2004.
- G. Chockler, I. Keidar, and D. Malkhi. **Optimal Resilience Wait-Free Storage from Byzantine Components: Inherent Costs and Solutions**. In the *2nd Bertinoro W'shop on Future Directions in Distributed Computing (FuDiCo II): S.O.S. Survivability: Obstacles and Solutions*, Bertinoro, Italy, Jun 2004.
- I. Keidar, R. Melamed, and A. Orda. **EquiCast: Efficient Multicast with Selfish Users**. In the *DYNAMO W'shop: Dynamic Communication Networks: Foundations and Algorithms*, co-located with DISC 2005, Cracow, Poland, Sep 2005.
- R. Melamed and I. Keidar. **Scalable and Robust Content Distribution**. In IBM Systems and Storage Seminar, Haifa, Israel, Dec 2005.
- I. Keidar and A. Shraer. **Timeliness, Failure Detectors, and Consensus Performance**. In the *Perspectives on Dependability W'shop*, Austin, Texas, Feb 2006.
- E. Bortnikov, I. Cidon, and I. Keidar. **Nomadic Service Points**. In the *2nd Israeli Networking Seminar*, Cisco, Natanya, Israel, Apr 2006.
- G. Badishi, A. Herzberg, and I. Keidar. **Denial of Service? Leave it to Beaver!** In *Dagstuhl seminar*, "From Security to Dependability", Sep 2006.
- G. V. Chockler, R. Guerraoui, I. Keidar, and M. Vukolić. **Secure Distributed Storage: Recent Results and Open Problems**. In *Dagstuhl seminar*, "From Security to Dependability", Sep 2006.
- G. V. Chockler, R. Guerraoui, and I. Keidar. **On the Space Requirements of Robust Storage Implementations**. In *Dagstuhl seminar*, "From Security to Dependability", Sep 2006.
- I. Keidar. **Local Computations in Large-Scale Networks**. In the *W'shop on Large-Scale Distributed Systems and Middleware (LADIS'07)*, Haifa, Israel, Mar 2007.
- E. Bortnikov, M. Gurevich I. Keidar, G. Kliot, and A. Shraer. **Brahms: Byzantine Resilient Random Membership Sampling**. In the *3rd Bertinoro W'shop on Future Directions in Distributed Computing (FuDiCo III): Building MAD Systems*, Jun 2007.
- E. Bortnikov, I. Cidon, and I. Keidar. **Scalable Load-Distance Balancing**. In the *2nd W'shop on Locality Preserving Distributed Computing Methods (LOCALITY 2007)*, Aug 2007, co-located with ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'07).
- A. Shraer, S. Bercovici, G. Chockler, I. Keidar, R. Melamed, Y. Tock, and R. Vitenberg. **Local Building Blocks for a Scalable Pub/Sub Infrastructure**. In the *2nd W'shop on Locality Preserving Distributed Computing Methods (LOCALITY 2007)*, Aug 2007, co-located with ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC'07).
- E. Bortnikov, M. Gurevich I. Keidar, G. Kliot, and A. Shraer. **Brahms: Byzantine Resilient Random Membership Sampling**. In the *5th Israeli Networking Seminar*, Cisco, Natanya, Israel, Apr 2009.

- I. Keidar and D. Perelman. **On Maintaining Multiple Versions in STM**. In *What theory for transactional memory?* W'shop, Sep 2009, Elche, Spain, co-located with DISC 2009.
- C. Cachin, I. Keidar, and A. Shraer. **From Byzantine-Tolerant to Intrusion-Safe Services**. In *BFTW³: Why? When? Where? W'shop on Theory and Practice of Byzantine Fault Tolerance*, Sep 2009, Elche, Spain, co-located with DISC 2009.

Awards and Honors

Muriel and David Jackow Award for Excellence in Teaching, 2010.
David Dudi Ben-Aharon Research Award, 2009.
SPAA'08 Best Paper Award, 2008.
Citations for Excellence in Teaching, Winter 2007–2008 and Winter 2008–2009.
Google Research Award, 2007.
IBM Faculty Award, IBM International, 2006, renewed 2007.
Allon Fellowship for young scientists the Israeli Council for Higher Education, 2001 – 2004.
Technion Management Career Development Chair (CDC), the Technion, Israel 2001 – 2003.
Outstanding Service Award, 21st IEEE Int'l Conf. on Distributed Computing Systems (ICDCS), 2001.
NSF CISE Postdoctoral Fellowship in Experimental Computer Science, Aug 1999 – Jul 2001.
Rothschild Yad-Hanadiv fellowship for postdoctoral studies in any discipline, 1998 – 1999.
 Israeli Ministry of Science **Eshkol** Scholarship, Nov 1996 – Nov 1998.
Leibnitz Scholarship for Ph.D. students, Oct 1994 – Jun 1996.
Wolf Foundation Prize for Ph.D. students, Jan 1996.
Intel Israel Prize for Ph.D. students, Jun 1994.
 M.Sc. **Summa cum laude**, Computer Science, Apr 1994.
 Hebrew University, Faculty of Mathematics and Natural Sciences Awards for M.Sc. students, 1992 and 1993.
 Hebrew University **Rector's Prize** for M.Sc. students, Jan 1993.
 B.Sc. **Summa cum laude**, Computer Science and Mathematics, Aug 1992.
 Hebrew University **Dean's Honor Lists**, 1991, 1992, and 1993.
 Hebrew University **Rector's Prize**, Dec 1991.
 Tel Aviv University **Dean's Honor List**, Summer 1990.

Research Grants

Technion Funds for Security Research *Rapidly Deployable Wireless Mesh Networks at the Battle Field*, 2009–2011. 160K NIS.

Hasso Platner Institute (HPI) Center *Scalable Computing - Software and Architecture*, 2010–2015. Joint with H. Attiya, Y. Birk, I. Cidon, R. Friedman, R. Ginosar, I. Keslassy, A. Kolodny, A. Schuster, and U. Weiser.

Semiconductors Research Corporation (SRC) *Innovative cache structures and architectures for multi-threaded applications in multi-core chips*, 180K USD for three years, starting Nov 2008. Joint with I. Cidon, A. Kolodny, and R. Ginosar.

Magnet Consortium – Israeli Ministry of Industry, Trade, and Labor, *Rapidly Deployable Wireless Mesh Networks for RESCUE*, 300K NIS a year, for three years, starting Jul 2008. Joint with I. Cidon.

Israeli Ministry of Science and Technology Knowledge Center: Infrastructure for CMP (Chip Multi-Processor) Research, 500K NIS a year, for three years, starting Dec 2007. As Knowledge Center Manager. Co-manager: Visiting Prof. U. Weiser.

Intel Corporation Interconnected Multi-Core Processor Architecture, 80K USD a year for three years, starting Oct 2007. Joint with I. Cidon, R. Ginosar, A. Kolodny, and U. Weiser.

Google Research Award Foundations of Reliable Distributed Storage, 20K USD, 2007.

IBM Faculty Award Overlay Networks for Scalable and Dependable Publish-Subscribe Solutions, 20K USD a year, 2006 and 2007.

Technion-Haifa University Joint Research Grant Groupware services for mobile Wireless Networks, 7K USD, 2006. Joint with I. Cidon and Z. Naor.

Intel Corporation Interconnected Multi-Core Processor Architecture, 80K USD a year for three years, starting Oct 2004. Joint with I. Cidon, R. Ginosar, and A. Kolodny.

Israel Science Foundation (ISF) Group Communication in Wireless Mobile Ad-Hoc Networks, 55K USD a year, for four years, starting Oct 2003. Joint with R. Friedman.

Intel Corporation Research Council Wireless Communications and Computing Group, Middleware Services for Wireless PCA Environments, 80K USD a year, for two years, starting Nov 2002. Joint with I. Cidon, R. Friedman, and A. Segall.

Publication List

My publications are available online from my web page: <http://www.ee.technion.ac.il/people/idish>.
 (*) Indicates that a revised and extended version has been published elsewhere.

Theses

- [T1] I. Keidar. **A Highly Available Paradigm for Consistent Object Replication**. *Master's thesis, Institute of Computer Science, The Hebrew University of Jerusalem, Jerusalem, Israel, 1994*. Also *Technical Report CS95-5*. Supervised by Prof. Danny Dolev.
- [T2] I. Keidar. **Consistency and High Availability of Information Dissemination in Multi-Processor Networks**. *Ph.D. dissertation, Institute of Computer Science, The Hebrew University of Jerusalem, Jerusalem, Israel, 1998*. Supervised by Prof. Danny Dolev.

Refereed Journal Articles

- [J1] I. Keidar and D. Dolev. **Increasing the Resilience of Distributed and Replicated Database Systems**. In *the Journal of Computer and System Sciences (JCSS)* 57(3), Special Issue with Selected Papers from PODS 1995, pages 309–324, Dec 1998.
- [J2] G. V. Chockler, I. Keidar, and R. Vitenberg. **Group Communication Specifications: A Comprehensive Study**. *Survey paper in ACM Computing Surveys* 33(4), pp. 1–43, Dec 2001.
- [J3] I. Keidar, R. Khazan, N. Lynch, and A. S. **An Inheritance-Based Technique for Building Simulation Proofs Incrementally**. In *ACM Transactions on Software Engineering and Methodology (TOSEM)* 11(1), pp. 1–29, Jan 2002.

- [J4] I. Keidar, J. Sussman, K. Marzullo, and D. Dolev. **Moshe: A Group Membership Service for WANs**. In *ACM Transactions on Computer Systems (TOCS)* 20(3), pp. 1–48, Aug 2002.
- [J5] I. Keidar and R. Khazan. **A Virtually Synchronous Group Multicast Algorithm for WANs: Formal Approach**. In *SIAM Journal on Computing (SICOMP)* 32(1), pp. 78–130, Nov 2002.
- [J6] I. Keidar and S. Rajsbaum. **A Simple Proof of the Uniform Consensus Synchronous Lower Bound**. In *Information Processing Letters (IPL)* 85(1), pp. 47–52, Jan 2003.
- [J7] N. Lavi, I. Cidon, and I. Keidar. **MaGMA: Mobility and Group Management Architecture for Real-Time Collaborative Application in Converged Wireless Networks**. *Wiley Journal of Wireless Communications and Mobile Computing* 5(7), Special Issue on Mobility, Paging and Quality of Service Management for Future Wireless Networks, (16% acceptance rate) pp. 749–772, Nov 2005.
- [J8] G. Badishi, I. Keidar, and A. Sasson. **Exposing and Eliminating Vulnerabilities to Denial of Service Attacks in Secure Gossip-Based Multicast**. *IEEE Transactions on Dependable and Secure Computing (TDSC)* 3(1), pp. 45–61, Mar 2006.
- [J9] I. Abraham, G. Chockler, I. Keidar, and D. Malkhi. **Byzantine Disk Paxos: Optimal Resilience with Byzantine Shared Memory**. *Springer Distributed Computing* 18(5), pp. 387–408, Apr 2006.
- [J10] P. Pal, P. Rubel, M. Atighetchi, F. Webber, W. Sanders, M. Seri, H. Ramasamy, J. Lyons, T. Courtney, A. Agbaria, M. Cukier, J. Gossett, and I. Keidar. **An Architecture for Adaptive Intrusion-Tolerant Applications**. *Software: Practice and Experience (SP&E)* 36(12), Special Issue on Experiences with Auto-adaptive and Reconfigurable Systems, pp. 1331–1354, Oct 2006, Wiley.
- [J11] I. Abraham, G. Chockler, I. Keidar, and D. Malkhi. **Wait-Free Regular Storage from Byzantine Components**. *Information Processing Letters (IPL)* 101(2), pp. 60–65, Jan 2007.
- [J12] P. Dutta, R. Guerraoui, and I. Keidar. **The Overhead of Consensus Failure Recovery**. *Springer Distributed Computing* 19(5–6), pp. 373–386, Apr 2007.
- [J13] Z. Guz, I. Keidar, A. Kolodny, and U. Weiser. **Nahalal: Cache Organization for Chip Multiprocessors**. *IEEE Computer Architecture Letters* 6(1), pp. 21–24, May 2007.
- [J14] E. Bortnikov, I. Cidon, and I. Keidar. **Nomadic Service Assignment**. *IEEE Transactions on Mobile Computing (TMC)* 6(8), pp. 915–928, Aug 2007.
- [J15] G. Badishi, A. Herzberg, and I. Keidar. **Keeping Denial-of-Service Attackers in the Dark**. *IEEE Transactions on Dependable and Secure Computing (TDSC)* 4(3), pp. 191–204, Jul-Sep 2007.
- [J16] I. Keidar and A. Shraer. **How to Choose a Timing Model?** *IEEE Transactions on Parallel and Distributed Systems (TPDS)* 19(10), pp. 1367–1380, Oct 2008.
- [J17] R. Melamed, I. Keidar, and Y. Barel. **Octopus: A Fault-Tolerant and Efficient Ad-hoc Routing Protocol**. *Wireless Networks* 14(6), pp. 731–743, Dec 2008.

- [J18] R. Melamed and I. Keidar. **Araneola: A Scalable Reliable Multicast System for Dynamic Environments.** *Journal of Parallel and Distributed Computing (JPDC)* 68(12), pp. 1539–1560, Dec 2008.
- [J19] U. Schmid, B. Weiss, and I. Keidar. **Impossibility Results and Lower Bounds for Consensus Under Link Failures.** *SIAM Journal on Computing (SICOMP)* 38(5), pp. 1912–1951, published online Jan 2009.
- [J20] Z. Bar-Yossef, I. Keidar, and U. Schonfeld. **Do Not Crawl in the DUST: Different URLs with Similar Text.** *ACM Transactions on the Web (TWEB)* 3(1), Article 3, Jan 2009.
- [J21] C. Cachin, I. Keidar, and A. Shraer. **Fork Sequential Consistency is Blocking.** *Information Processing Letters (IPL)* 109(7), pp. 360–364, Mar 2009.
- [J22] G. Chockler, R. Guerraoui, I. Keidar, and M. Vukolić. **Reliable Distributed Storage.** In *IEEE Computer* 42(4), pp. 60–67, Apr 2009.
- [J23] Z. Guz, E. Bolotin, I. Keidar, A. Kolodny, A. Mendelson, and U. Weiser. **Many-Core vs. Many-Thread Machines: Stay Away From the Valley.** In *IEEE Computer Architecture Letters*, vol. 8, pp. 25–28, Apr 2009.
- [J24] G. Badishi, G. Caronni, I. Keidar, R. Rom, and G. Scott. **Deleting Files in the Celeste Peer-to-Peer Storage System.** In *Journal of Parallel and Distributed Computing (JPDC)* 69(7), pp. 613–622, July 2009.
- [J25] E. Bortnikov, M. Gurevich I. Keidar, G. Kliot, and A. Shraer. **Brahms: Byzantine Resilient Random Membership Sampling.** In *Computer Networks (COMNET)* 53(13), Special Issue on Gossiping in Distributed Systems, pp. 2340–2359, Aug 2009.
- [J26] I. Keidar, R. Melamed, and A. Orda. **EquiCast: Scalable Multicast with Selfish Users.** In *Computer Networks (COMNET)* 53(13), Special Issue on Gossiping in Distributed Systems, pp. 2373–2386, Aug 2009.

Invited Journal Articles

- [IJ1] I. Keidar and S. Rajsbaum. **On the Cost of Fault-Tolerant Consensus When There Are No Faults.** Guest column in *ACM SIGACT News*, 32(2), pp. 45–63, Jun 2001.
- [IJ2] I. Keidar and A. Schuster. **Want Scalable Computing? Speculate!** In *ACM SIGACT News*, 37(3), Distributed Computing Column 23, pp. 59–66, Sep 2006.
- [IJ3] E. Bortnikov, I. Cidon, I. Keidar, T. Kol and A. Vaisman. **A QoS WMN with Mobility Support.** In *ACM SIGMOBILE Mobile Computing and Communications Review (MC²R)* 12(1), pp. 46–48, Jan 2008, Special Issue: MobiCom 2007 poster abstracts.
- [IJ4] C. Cachin, I. Keidar, and A. Shraer. **Trusting the Cloud.** In *ACM SIGACT News*, 40(2), pp. 81–86, Distributed Computing Column 34, Jun 2009.

Refereed Journal Correspondences

- [JC1] O. Hazzan, A. Tal, and I. Keidar. **Can a one-day conference change female high school students' perception of Electrical Engineering?** *Short paper in IEEE Transactions on Education*, 49(3), Aug 2006.

Invited Chapters in Books / Edited Volumes

- [B1] T. Anker, G. Chockler, D. Dolev, and I. Keidar. **Scalable Group Membership Services for Novel Applications**. In *Networks in Distributed Computing (DIMACS workshop)*. Edited by: Marios Mavronicolas, Michael Merritt, and Nir Shavit. DIMACS 45. American Mathematical Society, pp. 23–42, 1998.
- [B2] I. Keidar and D. Dolev. **Totally Ordered Broadcast in the Face of Network Partitions**. *Exploiting Group Communication for Replication in Partitionable Networks*. Chapter 3 of *Dependable Network Computing*, D. Avresky Editor, Kluwer Academic Publications, pp. 51–75, Jan 2000.
- [B3] I. Keidar. **Group Communication**. Chapter in *The Encyclopedia of Distributed Computing*, Joseph Urban and Partha Dasgupta, editors, Kluwer Academic Publishers. Unpublished. Completed: 2001.
- [B4] I. Keidar. **Challenges in Evaluating Distributed Algorithms**. In *Future Directions in Distributed Computing*, Lecture Notes in Computer Science Volume 2584, pp. 40–44, 2003.
- [B5] I. Keidar and S. Rajsbaum. **Open Questions on Consensus Performance in Well-Behaved Runs**. In *Future Directions in Distributed Computing*, Lecture Notes in Computer Science Volume 2584, pp. 35–39, 2003.
- [B6] O. Hazzan, A. Tal, and I. Keidar. **Female Pupils Perception of Electrical Engineering**. Chapter in *Gender and IT Encyclopedia*, Eileen M. Trauth, editor, Information Science Publishing, Idea Group Inc., Apr 2006.

Research Papers in Refereed Conference Proceedings

- [C1] (*) I. Keidar and D. Dolev. **Increasing the Resilience of Atomic Commit, at No Additional Cost**. Proceedings, *14th ACM Symp. on Principles of Database Systems (PODS)*, pp. 245–254, San Jose, California, May 1995.
- [C2] I. Keidar and D. Dolev. **Efficient Message Ordering in Dynamic Networks**. Proceedings, *15th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 68–76, Philadelphia, Pennsylvania, May 1996; (31% acceptance rate).
- [C3] G. V. Chockler, N. Huleihel, I. Keidar, and D. Dolev. **Multimedia Multicast Transport Service for Groupware**. Proceedings, *TINA Conf. on the Convergence of Telecommunications and Distributed Computing Technologies*, pp. 43–54, Heidelberg, Germany, Sep 1996.
- [C4] E. Yeger Lotem, I. Keidar, and D. Dolev. **Dynamic Voting for Consistent Primary Components**. Proceedings, *16th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 63–71, Santa Barbara, California, Aug 1997; (27% acceptance rate).
- [C5] T. Anker, D. Dolev, and I. Keidar. **Fault Tolerant Video-on-Demand Services**. Proceedings, *19th IEEE Int'l Conf. on Distributed Computing Systems (ICDCS)*, pp. 244–252, Austin, Texas, Jun 1999.
- [C6] (*) I. Keidar and R. Khazan. **A Client-Server Approach to Virtually Synchronous Group Multicast: Specifications and Algorithms**. Proceedings, *20th IEEE Int'l Conf. on Distributed Computing Systems (ICDCS)*, pp. 344–355, Taipei, Taiwan, Apr 2000.

- [C7] (*) I. Keidar, J. Sussman, K. Marzullo, and D. Dolev. **A Client-Server Oriented Algorithm for Virtually Synchronous Group Membership in WANs**. Proceedings, *20th IEEE Int'l Conf. on Distributed Computing Systems (ICDCS)*, pp. 356–365, Taipei, Taiwan, Apr 2000.
- [C8] (*) I. Keidar, R. Khazan, N. Lynch, and A. Shvartsman. **An Inheritance-Based Technique for Building Simulation Proofs Incrementally**. Proceedings, *22nd Int'l Conf. on Software Engineering (ICSE) (sponsored by IEEE and the ACM)*, pp. 478–487, Limerick, Ireland, Jun 2000; (14% acceptance rate). *Selected by the ICSE program committee as one of the best papers for publication in ACM Transactions on Software Engineering and Methodology (TOSEM)*.
- [C9] J. Sussman, I. Keidar, and K. Marzullo. **Optimistic Virtual Synchrony**. Proceedings, *19th IEEE Symp. on Reliable Distributed Systems (SRDS)*, pp. 42–51, Nürnberg, Germany, Oct 2000; (28% acceptance rate).
- [C10] Z. Bar-Joseph, I. Keidar, T. Anker, and N. Lynch. **QoS Preserving Totally Ordered Multicast**. Proceedings, *5th Int'l Conf. On Principles Of Distributed Systems (OPODIS)*, special issue of STUDIA INFORMATICA UNIVERSALIS, guest editor Franck Butelle, pp. 143–163, Paris, France, Dec 2000.
- [C11] K. Ingols and I. Keidar. **Availability Study of Dynamic Voting Algorithms**. Proceedings, *21st IEEE Int'l Conf. on Distributed Computing Systems (ICDCS)*, pp. 247–254, Phoenix, Arizona, Apr 2001; (31% acceptance rate).
- [C12] O. Bakr and I. Keidar. **Evaluating the Running Time of a Communication Round over the Internet**. Proceedings, *21st ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 243–252, Monterey, California, Jul 2002; (22% acceptance rate).
- [C13] Z. Bar-Joseph, I. Keidar, and N. Lynch. **Early-Delivery Dynamic Atomic Broadcast**. Proceedings, *16th Int'l Symp. on Distributed Computing (DISC)*, Toulouse, France, Oct 2002; (31% acceptance rate).
- [C14] (*) G. Badishi, I. Keidar, and A. Sasson. **Exposing and Eliminating Vulnerabilities to Denial of Service Attacks in Secure Gossip-Based Multicast**. Proceedings, *IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, Florence, Italy, Jun–Jul, 2004; (22% acceptance rate).
- [C15] C. Livadas and I. Keidar. **Caching-Enhanced Scalable Reliable Multicast**. Proceedings, *IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, Florence, Italy, Jun–Jul, 2004; (22% acceptance rate).
- [C16] (*) I. Abraham, G. Chockler, I. Keidar, and D. Malkhi. **Byzantine Disk Paxos: Optimal Resilience with Byzantine Shared Memory**. Proceedings, *23rd ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, St. John's, Newfoundland, Canada, Jul, 2004; (17% acceptance rate).
- [C17] (*) R. Melamed and I. Keidar. **Araneola: A Scalable Reliable Multicast System for Dynamic Environments**. Proceedings, *3rd IEEE Int'l Symp. on Network Computing and Applications (NCA)*, pp. 5–14, Cambridge, MA, USA, Aug–Sep 2004.
- [C18] (*) N. Lavi, I. Cidon, and I. Keidar. **Supporting Groupware in Mobile Networks**. Proceedings, *6th IFIP/IEEE Int'l Conf. on Mobile and Wireless Communication Networks (MWCN)*, Paris, France, Oct 2004.

- [C19] (*) G. Badishi, A. Herzberg, and I. Keidar. **Keeping Denial-of-Service Attackers in the Dark**. Proceedings, *19th Int'l Symp. on Distributed Computing (DISC), Lecture Notes in Computer Science* Volume 3724, pp. 18–32, Cracow, Poland, Sep 2005; (19% acceptance rate).
- [C20] (*) R. Melamed, I. Keidar, and Y. Barel. **Octopus: A Fault-Tolerant and Efficient Ad-hoc Routing Protocol**. Proceedings, *24th IEEE Symp. on Reliable Distributed Systems (SRDS 2005)*, pp. 39–49, Orlando, Florida, Oct 2005; (27% acceptance rate).
- [C21] I. Keidar and R. Melamed. **Evaluating Unstructured Peer-to-Peer Lookup Overlays**. Proceedings, *21st ACM Symp. on Applied Computing (SAC), Dependable and Adaptive Distributed Systems (DADS) track*, pp. 675–679, Dijon, France, Apr, 2006; (33% acceptance rate).
- [C22] (*) E. Bortnikov, I. Cidon, and I. Keidar. **Nomadic Service Points**. Proceedings, *IEEE INFOCOM 2006*, Barcelona, Spain, Apr 2006; (18% acceptance rate).
- [C23] I. Keidar and A. Shraer. **Timeliness, Failure Detectors, and Consensus Performance**. Proceedings, *25th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 169–178, Denver, Colorado, Jul, 2006; (22% acceptance rate).
- [C24] (*) I. Keidar, R. Melamed, and A. Orda. **EquiCast: Scalable Multicast with Selfish Users**. Proceedings, *25th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 63–71, Denver, Colorado, Jul, 2006; (22% acceptance rate).
- [C25] Y. Birk, I. Keidar, L. Liss, A. Schuster, and R. Wolff. **Veracity Radius - Capturing the Locality of Distributed Computations**. Proceedings, *25th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 102–111, Denver, Colorado, Jul, 2006; (22% acceptance rate).
- [C26] Y. Birk, I. Keidar, L. Liss, and A. Schuster. **Efficient Dynamic Aggregation**. Proceedings, *20th Int'l Symp. on Distributed Computing (DISC), Lecture Notes in Computer Science* Volume 4167, pp. 90–104, Stockholm, Sweden, Sep 2006; (24% acceptance rate).
- [C27] (*) G. Badishi, G. Caronni, I. Keidar, R. Rom, and G. Scott. **Deleting Files in the Celeste Peer-to-Peer Storage System**. Proceedings, *25th IEEE Symp. on Reliable Distributed Systems (SRDS)*, pp. 29–38, Leeds, UK, Oct 2006; (29% acceptance rate).
- [C28] (*) Z. Bar-Yossef, I. Keidar, and U. Schonfeld. **Do Not Crawl in the DUST: Different URLs with Similar Text**. Proceedings, *16th Int'l World Wide Web Conf. (WWW2007)*, pp. 111–120, Banff, Canada, May 2007; (14% acceptance rate).
- [C29] R. Gindin, I. Cidon, and I. Keidar. **NoC-Based FPGA: Architecture and Routing**. Proceedings, *1st ACM/IEEE Int'l Symp. on Networks-on-Chips (NOCS)*, pp. 253–262, Princeton, New Jersey, May 2007; (26% acceptance rate).
- [C30] (*) I. Keidar and A. Shraer. **How to Choose a Timing Model?** Proceedings, *37th IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, pp. 389–398, Edinburgh, UK, Jun 2007; (22% acceptance rate).
- [C31] G. Chockler, R. Guerraoui, and I. Keidar. **Amnesic Distributed Storage**. Proceedings, *21st Int'l Symp. on Distributed Computing (DISC), Lecture Notes in Computer Science* Volume 4731, pp. 139–151, Cyprus, Sep 2007; (32% acceptance rate).

- [C32] E. Bortnikov, I. Cidon, and I. Keidar. **Scalable Load-Distance Balancing**. Proceedings, *21st Int'l Symp. on Distributed Computing (DISC), Lecture Notes in Computer Science* Volume 4731, pp. 77–91, Cyprus, Sep 2007; (32% acceptance rate).
- [C33] E. Bortnikov, I. Cidon, and I. Keidar. **Scalable Real-time Gateway Assignment in Mobile Mesh Networks**. Proceedings, *3rd Int'l Conf. on emerging Networking EXperiments and Technologies (CoNEXT)*, New York, Dec 2007; (20% acceptance rate).
- [C34] G. Badishi and I. Keidar. **Improving Denial of Service Resistance using Dynamic Local Adaptations**. Proceedings, *23rd Annual ACM Symp. on Applied Computing (SAC)*, Dependable and Adaptive Distributed Systems (DADS) track, pp. 2212–2218, Fortaleza, Ceara, Brazil, Mar 2008; (27% acceptance rate).
- [C35] Z. Guz, I. Keidar, A. Kolodny, and U. Weiser. **Utilizing Shared Data in Chip Multiprocessors with the Nahalal Architecture**. Proceedings, *20th ACM Symp. on Parallelism in Algorithms and Architectures (SPAA)*, special track on Hardware and Software Techniques to Improve the Programmability of Multicore Machines, pp. 1–10, Munich, Germany, Jun 2008; (28% acceptance rate). **Awarded SPAA'08 Best Paper Award**.
- [C36] (*) E. Bortnikov, M. Gurevich I. Keidar, G. Kliot, and A. Shraer. **Brahms: Byzantine Resilient Random Membership Sampling**. Proceedings, *27th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 145–154, Toronto, Canada, Aug 2008; (30% acceptance rate).
- [C37] G. Badishi, A. Herzberg, I. Keidar, O. Romanov, and A. Yachin. **An Empirical Study of Denial of Service Mitigation Techniques**. Proceedings, *27th IEEE Symp. on Reliable Distributed Systems (SRDS)*, pp. 115–124, Naples, Italy, Oct 2008; (25% acceptance rate).
- [C38] H. Eran, O. Lutzky, Z. Guz, and I. Keidar. **Transactifying Apache's Cache Module**. Proceedings, *SYSTOR 2009 – The Israeli Experimental Systems Conference*, ACM International Conference Proceedings Series, May 2009.
- [C39] C. Cachin, I. Keidar, and A. Shraer. **Fail-Aware Untrusted Storage**. Proceedings, *39th IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, pp. 494–503, Estoril, Portugal, Jun-Jul 2009; (21% acceptance rate).
- [C40] M. Gurevich and I. Keidar. **Correctness of Gossip-Based Membership under Message Loss**. Proceedings, *28th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 151–160, Calgary, Canada, Aug 2009; (24% acceptance rate).
- [C41] M. Aguilera, I. Keidar, D. Malkhi, and A. Shraer. **Dynamic Atomic Storage Without Consensus**. Proceedings, *28th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, pp. 17–25, Calgary, Canada, Aug 2009; (24% acceptance rate).
- [C42] I. Keidar and D. Perelman. **On Avoiding Spare Aborts in Transactional Memory**. Proceedings, *21st ACM Symp. on Parallelism in Algorithms and Architectures (SPAA)*, pp. 59–68, Calgary, Canada, Aug 2009; (30% acceptance rate).
- [C43] A. Berman and I. Keidar. **Low-Overhead Error Detection for Networks-on-Chip**. Proceedings, *27th IEEE Int'l Conf. on Computer Design (ICCD)*, pp. 219–224, Lake Tahoe, California, Oct 2009; (35% acceptance rate).

Refereed Workshop Proceedings

- [W1] T. Anker, G. V. Chockler, I. Keidar, M. Rozman, and J. Wexler. **Exploiting Group Communication for Highly Available Video-On-Demand Services**. Proceedings, *13th Int'l Conf. on Advanced Science, and Technology (ICAST) and the 2nd Int'l Conf. on Multimedia Information Systems (ICMIS), and IEEE Yuforic on Multimedia Information Systems*, pp. 265–270, Schaumburg, Illinois, Apr 1997.
- [W2] T. Anker, G. V. Chockler, D. Dolev, and I. Keidar. **The Caelum Toolkit for CSCW: The Sky is the Limit**. Proceedings, *3rd Int'l W'shop on Next Generation Information Technologies and Systems (NGITS)*, pp. 69–76, Neve Ilan, Israel, Jun 1997.
- [W3] T. Araragi, P. Attie, I. Keidar, K. Kogure, V. Luchangco, N. Lynch, and K. Mano. **On Formal Modeling of Agent Computations**. Proceedings, *1st NASA W'shop on Formal Approaches to Agent-Based Systems (FAABS)*, pp. 48–62, FAABS 2000 Greenbelt, Maryland, Apr 2000. Springer Verlag Lecture Notes in Artificial Intelligence 1871.
- [W4] A. Fekete and I. Keidar. **A General Framework for Highly Available Services Based on Group Communication**. Proceedings, *21st Int'l Conf. on Distributed Computing Systems W'shops (ICDCS-21W)*; the *Int'l W'shop on Applied Reliable Group Communication (WARGC)*, pp. 57–62, Phoenix, Arizona, Apr 2001.
- [W5] S. Bercovici, Y. Frishman, I. Keidar, and A. Tal. **Decentralized Electronic Mail**. Proceedings, *Int'l W'shop on Dynamic Distributed Systems (IWDDS)*; in conjunction with the *26th Int'l Conf. on Distributed Computing Systems (ICDCS)*, Lisboa, Portugal, Jul 2006.
- [W6] I. Eyal, I. Keidar, and R. Rom. **Distributed Clustering for Robust Aggregation in Large Networks**. In *5th W'shop on Hot Topics in System Dependability (HotDep)*, co-located with the *39th IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, Estoril, Portugal, Jun 2009; (37% acceptance rate).
- [W7] D. Perelman and I. Keidar. **SMV: Selective Multi-Versioning STM**. In *5th ACM SIGPLAN Workshop on Transactional Computing (TRANSACT 2010)*, Apr 2010, Paris, France, co-located with EuroSys 2010.

Refereed Short Papers and Posters in Conferences

- [SC1] D. Dolev, R. Friedman, I. Keidar, and D. Malkhi. **Failure Detectors in Omission Failure Environments**. *Brief announcement*, proceedings, *16th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, page 286, Santa Barbara, California, Aug 1997.
- [SC2] (*) C. Livadas, I. Keidar, and N. A. Lynch. **Designing a Caching-Based Reliable Multicast Protocol**. In the *IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN)*, *Fast Abstracts Supplement*, pp. B44-B45, Göteborg, Sweden, Jul 2001.
- [SC3] I. Keidar and R. Melamed. **Brief Announcement: Trilix: A Scalable Lookup System for Dynamic Environments**. Proceedings, *23rd ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, St. John's, Newfoundland, Canada, Jul 2004.
- [SC4] (*) G. Badishi, I. Keidar, and A. Sasson. **Brief Announcement: Exposing and Eliminating Vulnerabilities to Denial of Service Attacks in Secure Gossip-Based Multicast**. Proceedings, *23rd ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, St. John's, Newfoundland, Canada, Jul 2004.

- [SC5] G. Badishi, A. Herzberg, and I. Keidar. **How to Build a Dam: Fighting Application-Level DoS Attacks.** In the *IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN), Fast Abstracts Supplement*, Yokohama, Japan, Jun–Jul 2005.
- [SC6] (*) U. Schonfeld, Z. Bar-Yossef, and I. Keidar. **Do not Crawl in the DUST: Different URLs with Similar Text.** Poster in *15th Int'l World Wide Web Conf. (WWW2006)*, Edinburgh, UK, May 2006.
- [SC7] A. Shraer, G. Chockler, I. Keidar, R. Melamed, Y. Tock, and R. Vitenberg. **Local On-Line Maintenance of Scalable Pub/Sub Infrastructure.** In the *IEEE/IFIP Int'l Conf. on Dependable Systems and Networks (DSN), Fast Abstracts Supplement*, pp. 408–409, Edinburgh, UK, Jun 2007.
- [SC8] C. Cachin, I. Keidar and A. Shraer. **Improving Efficiency and Enhancing Concurrency of Untrusted Storage.** In the *6th USENIX Conference on File and Storage Technologies (FAST '08), work-in-progress (WiP) and poster session*, San Jose, CA, Feb 2008.
- [SC9] E. Bortnikov, I. Cidon, and I. Keidar. **Brief Announcement: Dynamic Service Assignment in Next-Generation Mobile Networks: the MAGMA Approach.** Proceedings, *27th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, page 444, Toronto, Canada, Aug 2008.
- [SC10] C. Cachin, I. Keidar and A. Shraer. **Brief Announcement: Principles of Untrusted Storage: A New Look at Consistency Conditions.** Proceedings, *27th ACM SIGACT-SIGOPS Symp. on Principles of Distributed Computing (PODC)*, page 426, Toronto, Canada, Aug 2008.
- [SC11] A. Berman and I. Keidar. **Low-Overhead Error Detection for Networks-on-Chip.** *SYSTOR 2009 – The Israeli Experimental Systems Conference*, poster session, May 2009.
- [SC12] (*) I. Eyal, I. Keidar, and R. Rom. **Distributed Clustering for Robust Aggregation in Large Networks.** *SYSTOR 2009 – The Israeli Experimental Systems Conference*, poster session, May 2009.
- [SC13] (*) Z. Guz, E. Bolotin, I. Keidar, A. Kolodny, A. Mendelson, and U. Weiser. **Many-Core vs. Many-Thread Machines: Stay Away From the Valley.** *SYSTOR 2009 – The Israeli Experimental Systems Conference*, poster session, May 2009.