

# Gregory Chockler – Curriculum Vitae

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## Current Address

Department of Computer Science  
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## Academic Degrees

<b>Ph.D.</b> Computer Science, Hebrew University of Jerusalem, Thesis: [62]	2003
<b>M.Sc.</b> Computer Science, Hebrew University of Jerusalem, <i>Magna cum laude</i> , Thesis: [63]	1997
<b>B.Sc.</b> Computer Science, Hebrew University of Jerusalem <i>Cum laude</i>	1993

## Employment

*Professor*, (January 2020 – )

Department of Computer Science, University of Surrey, UK

*Professor*, (September 2016 – December 2019)

Department of Computer Science, Royal Holloway, University of London, UK

*Reader (Associate Professor)*, (October 2012 – September 2016)

Department of Computer Science, Royal Holloway, University of London, UK

*Research Staff Member*, IBM Research

Cloud Application Platforms (September 2005 – December 2012)

Advanced Storage Technologies (January 2002 – September 2003)

*Postdoctoral Associate*, Theory of Distributed Systems, (September 2003 – September 2005)

MIT Computer Science and Artificial Intelligence Laboratory (MIT/CSAIL)

*Adjunct Lecturer*, Operating Systems, (September 2001 – September 2003)

School of Computer Science and Engineering, Hebrew University

*Summer Intern* (July – September, 2000)

Bell Labs, Lucent Technologies, Murray Hill, NJ, USA

## Teaching

### University of Surrey

*Distributed Systems*, optional 3rd year undergraduate course I developed: 2019 - current

### Royal Holloway, University of London

*Large-Scale Data Storage and Processing*, compulsory MSc course I developed: 2013 - 2019

*Principles of Computation and Programming*, compulsory MSc course I developed: 2018 - 2019

*Computation with Data*, compulsory MSc course I developed: 2014 - 2017

*Computing Laboratory (Games)*, core undergraduate course: 2013 - 2014

*Software Engineering Project*, core undergraduate course: 2013

### MIT

*Principles of Fault-Tolerance in Distributed Systems*, top graduate course I developed

### Hebrew University of Jerusalem

*Operating Systems*, required undergraduate course

*Topics in Distributed Middleware Systems*, top graduate course I developed

*Computer Networks* (teaching assistant)

*Computer and Communication Security* (teaching assistant)

*Software Engineering* (teaching assistant)

### Open University of Israel

*Compiler Organisation*, instructor

## Graduate Students and Postdocs Supervised

- Philip Nadler, Ph.D., jointly with Mike Spagat (Economics) and Zhiyuan Luo (CS), Royal Holloway, University of London (2016 – 2017)
- Nery Riquelme-Granada, Ph.D., Royal Holloway, University of London (2016 – 2018)
- Chhaya Trehan, Ph.D., jointly with Peter Robinson, Royal Holloway, University of London (2015 –)
- Andy Evans, M.Sc., Royal Holloway, University of London (2015)
- Thinh Ha, M.Sc., Royal Holloway, University of London (2014 – 2015)
- Ymir Vigfusson, Cornell
  - Postdoc mentor (2009-2011)
  - Internship mentor (winter 2009)
- Dmitri Perelman, Technion, internship mentor (summer 2010)
- Keren Censor, Technion, internship mentor (summer 2009)
- Sarunas Girdzijauskas, EPFL, Internship mentor (winter 2008)
- Calvin Newport, MIT/CSAIL, M.Sc. 2006. Masters co-advisor (with Nancy Lynch).

## Dissertation Committees

- Manuel Bravo, Universite Catholique de Louvain and Tecnico Lisboa, Ph.D. Defence Jury Member (private defence), 15 May 2018
- Thomas Petig, Chalmers, Ph.D. Defence Jury Member, 2 February 2018
- Vamis Xhagjika, KTH and UPC, Ph.D. Defence Opponent, 29 May 2017
- Ying Liu, KTH, Ph.D. Defence Opponent, 3 October 2016
- Ran Tao, Queen Mary, University of London, Ph.D. Dissertation Internal Examiner, 11 July 2014
- Trausti Saemundson, Reykjavik University, M.Sc. Dissertation Committee, Summer 2014
- Cosmin Arad, KTH, Ph.D. Dissertation Committee and Defence Opponent, June 2013
- Sarunas Girdzijauskas, Ph.D. Dissertation Committee, EPFL (2008-2009)

## Selected Professional Activities

### Journals

- *Information Processing Letters*  
**Editorial Board member** (2010 – 2019)
- *Journal of Parallel and Distributing Computing*  
**Guest Editor**, special issue on Cloud Computing (June 2011 issue)

### Conferences

#### Program Committee Chair

- 20th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID'20), Track Chair (Storage and I/O Systems)
- 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID'19), Track Chair (Storage and I/O Systems)
- 38th IEEE International Conference on Distributed Computing (ICDCS'18), Track Chair (Distributed Algorithms and Theory)
- ACM/SIGOPS Workshop on Large-Scale Distributed Systems and Middleware (LADIS'08) Program Committee Chair

#### General Chair

IEEE International Conference on Peer-to-Peer Computing 2014 (P2P'14), September 8-12, 2014. London, UK

#### Workshop Organiser

ACM/SIGOPS Workshop on Large-Scale Distributed Systems and Middleware (**LADIS**)

- Founded the workshop in 2007 together with Ken Birman, Idit Keidar, and Roy Friedman
- General Chair: 2007, 2009 – current
- Steering Committee: 2011, 2012

## Technical Program Committees

ACM Annual SIGACT/SIGOPS Symposium on Principles of Distributed Computing (PODC)	2020, 2018, 2008, 2006, 2004
ACM International Conference on Distributed Event-Based Systems (DEBS)	2014, 2013, 2011, 2010, 2009, 2008
ACM Symposium on Cloud Computing (SOCC)	2016
IEEE International Conference on Distributed Computing Systems (ICDCS)	2018 (Track Chair), 2016, 2015, 2014, 2012, 2009, 2008, 2005
International Conference on Principles of Distributed Systems (OPODIS)	2013
International Conference on Distributed Computing and Networks (ICDCN)	2013, 2011, 2010
International Symposium on Distributed Computing (DISC)	2018, 2015, 2010, 2009
Annual International Systems and Storage Conference (SYSTOR)	2011, 2009
IEEE International Conference on Peer-to-Peer Computing (P2P)	2013, 2012
IEEE International Conference on Cloud Computing (IEEE CLOUD)	2018, 2013
IEEE International Conference on Big Data (IEEE BigData)	2016, 2015, 2014, 2013
IEEE International Conference on Cloud Engineering (IC2E)	2016, 2015, 2014, 2013
IEEE International Symposium on Reliable Distributed Systems (SRDS)	2020, 2016
International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS)	2017, 2013, 2009
ACM Workshop on Distributed Cloud Computing (DCC)	2017, 2016
ACM/SIGOPS Workshop on Large-Scale Distributed Systems and Middleware	2008 (chair), 2007
IEEE International Conference on Cloud Computing Technology and Science (CloudCom)	2018
IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID)	2020 (Track Chair), 2019 (Track Chair)

## Conference Organization

Organising Chair, 2018 ACM Symposium on Principles of Distributed Computing (PODC 2018)

Grant Chair, EuroSys 2016

Publicity Chair, ACM Symposium on Cloud Computing (SoCC 2013)

Local Arrangements Chair, ACM Symposium on Principles of Distributed Computing (PODC 2005)

## Grant Reviewing Panels

French National Research Agency (ANR), 2017, 2019

Economic and Social Research Council (ESRC): New and Emerging Forms of Data - Policy Demonstrator Projects, Commissioning Panel Member, January 2017

Israel Science Foundation (ISF), 2015

Flemish Agency for Innovation by Science and Technology (IWT), ICON Call 2014

Computing in the Cloud action line of European Institute of Innovation & Technology ICT Labs (EIT ICT Labs) Call 2014.

## Professional Body Nominations

EU/FP7 Research and Innovation for SEcurity, Privacy and Trustworthiness in the Information Society (RISEPTIS), Member of WG1: Security and Dependability in the Future Internet (2008 – 2009).

IBM Professional Interest Community on Distributed and Fault-Tolerant Computing, Co-Chair (2005 – 2012).

## Academic Administration Duties (UK-wide and Royal Holloway)

### Current Duties

**External Examiner** Queen Mary University of London, since Autumn 2018.

**Programme Director for MSc Internet-of-Things and Distributed and Networking Systems**, Royal Holloway, University of London, since January 2015

**Impact Officer**, Royal Holloway, since 2018

**Industry Relations Liaison**, Royal Holloway, since September 2013

**Industrial Advisory Board Chair**, Royal Holloway, since September 2013

**Probation Mentor** for Dan O’Keeffe, Royal Holloway, since Spring 2018

### Former Duties

**British Gas Consultancy Coordinator**, Royal Holloway, 2014 – 2016

**Impact Officer**, Royal Holloway, 2014 – 2015

**Departmental Seminar Organiser**, Royal Holloway, January 2013 – January 2014

## Grants

- Stellar Development Foundation Academic Research Grant (PI): 2020, USD150K
- IBM Shared University Research Award: 2017, £22.3K
- EPSRC Network for Algorithms and Complexity in the UK (AlgoUK): RHUL site leader, 2017 – 2020
- Coleman-Cohen Exchange Programme, research collaboration with Technion: 2016, £1.5K
- Magna Carta Doctoral Training Centre, **Fully Funded PhD Studentship** in Economic Modelling for Data Science (jointly with the Department of Economics): 2016 – 2019
- Faculty Award, by Facebook Inc.: 2015, £25K
- “Scalable Software for Multi-Core”, Royal Society: 2014–2016, £12K
- Royal Holloway, University of London, Research Strategy Fund (jointly with Department of Economics), 2014, £5K
- EU/FP7 Project **CoMiFin (Communication Middleware for Monitoring Financial Critical Infrastructure)**, IBM Site Leader (2008-2011). Project received the closing grade of *excellent*.

## Awards and Honors

Awards for scientific papers:

- “The ACM DEBS 2007 Most Influential Paper” Award for [38], awarded in 2019
- DSN 2019 “White-Box Atomic Multicast” [18] shortlisted for Best Paper Award
- DISC 2018 Best Paper Award for “Multi-Shot Distributed Transaction Commit” [19]
- Middleware 2000 Best Paper Award, by The Technical Committee 6 (TC6) of the International Federation for Information Processing (IFIP), 2000 (for [55])
- Middleware 2000 Best Student Paper Award, by Agilent Technologies, 2000 (for [55])

Papers invited from the following conferences to appear in journals:

- 34th International Symposium on Distributed Computing (DISC’20), [1] invited to Distributed Computing, in preparation
- 32nd International Symposium on Distributed Computing (DISC’18), [19] invited to Distributed Computing, submitted
- 2002 ACM Symposium on Principles of Distributed Computing (PODC’02), [50] invited to Distributed Computing, appears as [13]

Industry Awards:

- Scientific Accomplishment: Group Communication in Large-Scale Distributed Systems, IBM (2012)
- Outstanding Technical Accomplishment, IBM (2012, 2010)
- Innovative Applications Award, Event Processing Technical Society (2011)
- Excellence and Eminence Award, IBM (2011)

Scholarships and fellowships:

- Porat Scholarship, Hebrew University, 2001-2002.
- Israel Committee for Planning and Budgeting (VATAT) Scholarship, 1999.

## Invited Presentations

Since 1996, Dr. Chockler has delivered numerous scientific lectures at scientific symposia, leading universities, and industrial research institutions. Below is a sample of noteworthy past and future invited lectures.

- Facebook Security Research Meeting, Facebook Inc, 19 November 2020
- Surrey Concurrency Workshop, University of Surrey, 23-24 July, 2019
- Workshop on Technological and societal challenges to blockchain dependability and security, in conjunction with the 74th Meeting of the IFIP WG 10.4, 28 June - 1 July 2018, Clervaux, Luxembourg.
- Emory University, April 2018.
- Dagstuhl Seminar on Data Consistency in Distributed Systems: Algorithms, Programs, and Databases, February 2018.
- Workshop on Blockchain Technology and Theory (BTT'17) collocated with DISC'17, Vienna, Austria. 16 October 2017.
- IMDEA Software Institute, Madrid, Spain, September 2017.
- Bertinoro Workshop on Distributed Runtime Verification (DRV) Bertinoro, Italy, May 2016.
- 32nd British Colloquium of Theoretical Computer Science (BCTCS 2016), March 2016.
- Summer Workshop, Computer Science Laboratory, Swedish Institute for Computer Science, Summer 2014, Stockholm, Sweden.
- Distributed Computing Seminar, Technion Israel Institute of Technology, December 2013.
- Advanced Topics in Distributed Computing, European Master in Distributed Computing, Fall 2012, KTH Royal Institute of Technology, Stockholm, Sweden.
- Dagstuhl Seminar, Security and Dependability for Federated Cloud Platforms, July 2012, Dagstuhl, Germany.
- Distinguished Lecture, Swedish Institute for Computer Science (SICS), July 2010, Stockholm, Sweden.
- Summer Research Institute, The Swiss Federal Institute of Technology Lausanne (EPFL), July 2008, Lausanne, Switzerland.
- Cornell Systems Lunch, March 2008, Cornell University, Ithaca, NY, USA.
- ClubNet Seminar, February 2008, Electrical Engineering, Technion, Haifa, Israel.
- Microsoft Research Silicon Valley, January 2008.
- Keynote Address, 2nd ESFORS Workshop on Software and Service Development, Security, and Dependability, July 10–11, 2007, Maribor, Slovenia.
- 1st European Summer School on Knowledge Discovery for Ubiquitous Computing, September 14–16, 2006, University of Dortmund, Germany.
- Dagstuhl Seminar, From Security to Availability, September 10–15, 2006, Dagstuhl, Germany.
- Summer Research Institute, The Swiss Federal Institute of Technology Lausanne (EPFL), July 2004, Lausanne, Switzerland.
- First Bertinoro Workshop on Future Directions in Distributed Computing (FuDiCo), Bertinoro, Italy, 2002.



## Recent Publication Highlights

- [1] [Making Byzantine Consensus Live](#), Manuel Bravo, Gregory Chockler, and Alexey Gotsman. In Proceedings of *Distributed Computing - 34th International Symposium, DISC 2020*, October 12-15, 2020.
- [2] [White-Box Atomic Multicast](#), Gregory Chockler, Alexey Gotsman, and Anatole Lefort. In Proceedings of 49th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2019).
- [3] [Multi-Shot Distributed Transaction Commit](#), Gregory Chockler and Alexey Gotsman. 32nd International Symposium on Distributed Computing (DISC 2018). **Best Paper Award**
- [4] [Space Complexity of Fault-Tolerant Register Emulations](#), Gregory Chockler and Alexander Spiegelman. ACM PODC 2017.
- [5] [Space Bounds for Reliable Storage: Fundamental Limits of Coding](#), Alexander Spiegelman, Yuval Cassuto, Gregory Chockler, Idit Keidar. ACM PODC 2016.
- [6] [A Constructive Approach for Proving Data Structures' Linearizability](#), Gregory Chockler, Kfir Lev-Ari, and Idit Keidar. In Proceedings of *Distributed Computing - 29th International Symposium, DISC 2015*, LNCS 9363, pages 356–370, Tokyo, Japan, October 5–9, 2015.

## All Publications

### Books

- [1] [Collaborative Financial Infrastructure Protection](#), Roberto Baldoni, and Gregory Chockler (Eds.), Springer 2012, ISBN 978-3-642-20419-7.

### Journal and Magazine Articles

- [2] [Verifying cloud services: present and future](#), Sara Bouchenak, Gregory Chockler, Hana Chockler, Gabriela Gheorghe, Nuno Santos, and Alexander Shraer. 2013. SIGOPS Oper. Syst. Rev. 47, 2 (July 2013), 6-19.
- [3] [Design and implementation of caching services in the cloud](#), Gregory Chockler, Guy Laden, and Ymir Vigfusson, *IBM Journal of Research and Development*, special issue on Cloud Computing, 55(6): 1–11, December 2011.
- [4] [Clouds at the Crossroads: Research Perspectives](#), Ymir Vigfusson, and Gregory Chockler, *ACM Crossroads*, 16(3): 10–13, March 2010.
- [5] [Bulletin Board: A Scalable And Robust Eventually Consistent Shared Memory Over a Peer-To-Peer Overlay](#), Vita Bortnikov, Gregory Chockler, Alexey Roytman, and Mike Spreitzer, *Operating Systems Review*, 44(2): 64–70, April 2010.
- [6] [Reliable Distributed Storage](#), *IEEE Computer*, Gregory Chockler, Rachid Guerraoui, Idit Keidar, and Marco Vukolić, 42(4): 60–67, April 2009.
- [7] [Toward a Cloud Computing Research Agenda](#), Ken Birman, Gregory Chockler, and Robbert van Renesse, *SIGACT News*, 40(2): 68–80, June 2009.
- [8] [Reconfigurable Distributed Storage for Dynamic Networks](#), Gregory Chockler, Seth Gilbert, Vincent Gramoli, Peter M. Musial, Alexander A. Shvartsman, *Journal of Parallel and Distributed Computing*, 69(1):100–116, July 2009.

- [9] [Consensus and Collision Detectors in Radio Networks](#), Gregory Chockler, Murat Demirbas, Seth Gilbert, Nancy Lynch, Calvin Newport, and Tina Nolte. *Distributed Computing*, 21(1):55–84, June 2008.
- [10] [Wait-Free Regular Storage from Byzantine Components](#), Ittai Abraham, Gregory Chockler, Idit Keidar, and Dahlia Malkhi. *Information Processing Letters* 101(2): 60-65, 2007.
- [11] [Byzantine Disk Paxos: Optimal Resilience with Byzantine Shared Memory](#), Ittai Abraham, Gregory Chockler, Idit Keidar and Dahlia Malkhi. *Distributed Computing* 18(5), pages 387-408, April 2006, Springer.
- [12] [Light-Weight Leases for Storage-Centric Coordination](#), Gregory Chockler and Dahlia Malkhi, *International Journal of Parallel Programming (IJPP)*, 34(2): 143-170 (2006).
- [13] [Active Disk Paxos with infinitely many processes](#), Gregory Chockler and Dahlia Malkhi, *Distributed Computing*, 18(1): 73-84 (2005), Springer. (A special issue dedicated to selected papers appearing in PODC 2002).
- [14] [On the Composability of Consistency Conditions](#), Gregory Chockler, Roy Friedman, and Roman Vitenberg, *Information Processing Letters*, 86(4): 169-176 (2003).
- [15] [Group Communication Specification: A Comprehensive Study](#), Gregory Chockler, Idit Keidar and Roman Vitenberg, *ACM Computing Surveys*, 33(4), pages 1-43, December 2001.

## Chapter in Books

- [16] [A Data-Centric Approach for Scalable State Machine Replication](#), Gregory Chockler, Dahlia Malkhi and Danny Dolev. In *Future Directions in Distributed Computing*, Lecture Notes in Computer Science Volume 2584, Springer-Verlag, 2003. Edited by Ben Zhao, Andre Schiper, Alex Shvartsman and Hakim Weatherspoon.

## Refereed Conferences and Workshops

- [17] [Making Byzantine Consensus Live](#), Manuel Bravo, Gregory Chockler, and Alexey Gotsman. In *Proceedings of Distributed Computing - 34th International Symposium, DISC 2020*, October 12-15, 2020.
- [18] [White-Box Atomic Multicast](#), Gregory Chockler, Alexey Gotsman, and Anatole Lefort. In *Proceedings of the 49th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2019)*.
- [19] [Multi-Shot Distributed Transaction Commit](#), Gregory Chockler and Alexey Gotsman. *32nd International Symposium on Distributed Computing (DISC 2018)*. **Best Paper Award**
- [20] [Space Complexity of Fault-Tolerant Register Emulations](#), Gregory Chockler and Alexander Spiegelman. *ACM PODC 2017*.
- [21] [Scalable communication middleware for permissioned distributed ledgers](#), Artem Barger, Yacov Manevich, Benjamin Mandler, Vita Bortnikov, Gennady Laventman, Gregory Chockler. *ACM SYSTOR 2017*.
- [22] [Space Bounds for Reliable Storage: Fundamental Limits of Coding](#), Alexander Spiegelman, Yuval Cassuto, Gregory Chockler, Idit Keidar. *ACM PODC 2016*.
- [23] [Space Bounds for Reliable Storage: Fundamental Limits of Coding](#), Alex Spiegelman, Yuval Cassuto, Gregory Chockler, and Idit Keidar. In *Proceedings of International Conference on Principles of Distributed Computing (OPODIS)*, Rennes, France, December 2015.

- [24] [A Constructive Approach for Proving Data Structures' Linearizability](#), Gregory Chockler, Kfir Lev-Ari, and Idit Keidar. In Proceedings of *Distributed Computing - 29th International Symposium, DISC 2015*, LNCS 9363, pages 356–370, Tokyo, Japan, October 5–9, 2015.
- [25] [Space Bounds for Reliable Multi-Writer Data Store: Brief Announcement](#), Gregory Chockler, Dan Dobre, Alexander Shraer, and Alexander Spiegelman. In Proceedings of *Distributed Computing - 29th International Symposium, DISC 2015*, LNCS 9363, pages 673–674, Tokyo, Japan, October 5–9, 2015.
- [26] [Dynamic Performance Profiling of Cloud Caches](#), Trausti Saemundsson, Hjortur Bjornsson, Gregory Chockler, and Ymir Vigfusson. In Proceedings of the *ACM Symposium on Cloud Computing (SOCC '14)*. ACM, New York, NY, USA, Article 28, 14 pages.
- [27] [On Correctness of Data Structures under Reads-Write Concurrency](#), Kfir Lev-Ari, Gregory Chockler, and Idit Keidar. In Proceedings of *Distributed Computing - 28th International Symposium, DISC 2014*, pages 273–287, Austin, TX, USA, October 12–15, 2014.
- [28] Towards Self-Healing SDN, Gregory Chockler and Amitabh Trehan, In Proceedings of the *Workshop on Distributed Software-Defined Networks (DSDN'14)*.
- [29] Brief announcement: Consistency and complexity tradeoffs for highly-available multi-cloud store. Gregory Chockler, Dan Dobre, and Alex Shraer. In The International Symposium on Distributed Computing (DISC), 2013.
- [30] [Dynamic Performance Profiling of Cloud Caches](#) (Poster), Gregory Chockler, Ymir Vigfusson, Trausti Saemundsson, and Hjortur Bjornsson. *4th ACM Symposium on Cloud Computing (SOCC'13)*, Article 59, Santa Clara, CA, United States.
- [31] Reconfigurable State Machine Replication from Non-Reconfigurable Building Blocks, Vita Bortnikov, Gregory Chockler, Dmitri Perelman, Alexey Roytman, Shlomit Shachor and Ilya Shnayderman, in Proceedings of the *31st Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC 2012)*, Madeira, Portugal, July 16–18, 2012.
- [32] FRAPPE: Fast Replication Platform for Elastic Services, Vita Bortnikov, Gregory Chockler, Dmitri Perelman, Alexey Roytman, Shlomit Shachor and Ilya Shnayderman, in Proceedings of the *5th Workshop on Large-Scale Distributed Systems and Middleware (LADIS'11)*, Seattle, Washington, USA, September 2–3, 2011.
- [33] [Magnet: Practical Subscription Clustering for Internet-Scale Publish/Subscribe](#), in Proc. of the *4th ACM International Conference on Distributed Event-Based Systems (DEBS'10)*, Cambridge, United Kingdom, July 12–15, 2010.
- [34] [Dr. Multicast: Rx for Data Center Communication Scalability](#), Ymir Vigfusson, Hussam Abu-Libdeh, Mahesh Balakrishnan, Ken Birman, Robert Burgess, Gregory Chockler, Haoyuan Li, Yoav Tock, in Proc. of the *ACM SIGOPS 5th European conference on Computer systems (EuroSys'10)*: 349–362, Paris, France, April 13–16, 2010.
- [35] Data Caching as a Cloud Service, Gregory Chockler, Guy Laden, and Ymir Vigfusson, in Proceedings of the *5th Workshop on Large-Scale Distributed Systems and Middleware (LADIS'10)*, Zurich, Switzerland, July 2010.
- [36] [Virtual infrastructure for collision-prone wireless networks](#), Gregory Chockler, Seth Gilbert, and Nancy Lynch, In Proc. *ACM SIGACT/SIGOPS Annual Symposium on Principles of Distributed Computing (PODC'08)*, pages 233–242, August 18–21, Toronto, Canada.

- [37] **Constructing Scalable Overlays for Pub/Sub with Many Topics: Problems, Algorithms, and Evaluation**, Gregory Chockler, Roie Melamed, Yoav Tock, and Roman Vitenberg. In Proceedings of the *26th ACM Symposium on Principles of Distributed Computing (PODC'07)*, August 12-15, 2007, Portland, Oregon, USA.
- [38] **SpiderCast: A Scalable Interest-Aware Overlay for Topic-Based Pub/Sub Communication**, Gregory Chockler, Roie Melamed, Yoav Tock, and Roman Vitenberg. In Proceedings of the *Inaugural International Conference on Distributed Event-Based Systems (DEBS'07)*, June 20-22, 2007, Toronto, Canada.
- [39] **Amnesic Distributed Storage**, Gregory Chockler, Rachid Guerraoui, Idit Keidar. In Proceedings of the *21st International Symposium on Distributed Computing (DISC'07)*, September 24-26, 2007, Lemesos, Cyprus. Published by Springer-Verlag GmbH in Lecture Notes in Computer Science, Volume 4731, 2007, Pages 139 - 151.
- [40] Local Building Blocks for a Scalable Pub/Sub Infrastructure. Alex Shraer, Sivan Bercovici, Gregory Chockler, Idit Keidar, Roie Melamed, Yoav Tock, Roman Vitenberg. The Second Workshop on Locality Preserving Distributed Computing Methods (LOCALITY 2007).
- [41] Local On-Line Maintenance of Scalable Pub/Sub Infrastructure. Alex Shraer, Gregory Chockler, Idit Keidar, Roie Melamed, Yoav Tock, Roman Vitenberg. The 37th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2007), June 25 - June 28, 2007, Edinburg, UK. Fast abstract.
- [42] **Communication-Efficient Probabilistic Quorum Systems for Sensor Networks**, Gregory Chockler, Seth Gilbert, and Boaz Patt-Shamir. In Proceedings of the *IEEE International Workshop on Foundations and Algorithms for Wireless Networking (FAWN'06)*, March 13, 2006, Pisa, Italy.
- [43] Reconfigurable Distributed Storage for Dynamic Networks. Gregory Chockler, Seth Gilbert, Vincent Gramoli, Peter Musial, and Alexander Shvartsman. In Proceedings of the *9th International Conference on Principles of Distributed Systems (OPODIS'05)*, December 12-14, 2005, Pisa, Italy.
- [44] **Proving Atomicity: An Assertional Approach**, Gregory Chockler, Nancy Lynch, Sayan Mitra, and Joshua Tauber. In Proceedings of the *19th International Symposium on Distributed Computing (DISC'05)*, September 26-28, 2005, Krakow, Poland. Published by Springer-Verlag GmbH in Lecture Notes in Computer Science, Volume 3724, Oct 2005, Pages 152 - 168
- [45] **Consensus and Collision Detectors in Wireless Ad Hoc Networks**, Gregory Chockler, Murat Demirbas, Seth Gilbert, Calvin Newport and Tina Nolte. In Proceedings of the *24th ACM Symposium on Principles of Distributed Computing (PODC'05)*, July 17-20, 2005, Las Vegas, Nevada, USA.
- [46] Reconciling the Theory and Practice of (Un)Reliable Wireless Broadcast. Gregory Chockler, Murat Demirbas, Seth Gilbert, Nancy Lynch, Calvin Newport and Tina Nolte. In Proceedings of the 4th Workshop on Assurance in Distributed Systems and Networks (ADSN'05), June 6, 2005, Columbus, Ohio, USA.
- [47] **Byzantine Disk Paxos: Optimal Resilience with Byzantine Shared Memory**, Ittai Abraham, Gregory Chockler, Idit Keidar and Dahlia Malkhi. In Proceedings of the 23rd ACM Symposium on Principles of Distributed Computing (PODC'04), July 25-28, 2004, St. John's, Newfoundland, Canada.
- [48] Optimal Resilience Wait-Free Storage from Byzantine Components: Inherent Costs and Solutions. Gregory Chockler, Idit Keidar and Dahlia Malkhi. FuDiCo II: S.O.S. Survivability: Obstacles and Solutions. 2nd Bertinoro Workshop on Future Directions in Distributed Computing, 23-25 June 2004 University of Bologna Residential Center Bertinoro (Forli), Italy.

- [49] Aquarius: A Data-Centric approach to CORBA Fault-Tolerance. Gregory Chockler, Dahlia Malkhi, Barak Merimovich and David Rabinowitz. The Workshop on Reliable and Secure Middleware, in Proceedings of the 2003 International Conference on Distributed Objects and Applications (DOA), Sicily, Italy, November 2003.
- [50] **Active Disk Paxos with infinitely many processes**, Gregory Chockler and Dahlia Malkhi, In Proceedings of the *21st ACM Symposium on Principles of Distributed Computing (PODC'02)*, July 20-24, 2002, Monterey, California, USA.
- [51] State-Machine Replication with Infinitely Many Processes: A position Paper, G. Chockler, D. Malkhi and D. Dolev, In Proceedings of the International Workshop on Future Directions in Distributed Computing (FuDiCo), Bertinoro, Italy, 2002.
- [52] Quorum Based Approach to CORBA Fault-Tolerance, Gregory Chockler, Dahlia Malkhi and Danny Dolev, In Proceedings of the European Research Seminar in Advanced Distributed Systems (ERSADS'01), University Residential Center of University of Bologna, Bertinoro (Forli) , Italy. 4-18 May 2001.
- [53] **Backoff Protocols for Distributed Mutual Exclusion and Ordering**, Gregory Chockler, Dahlia Malkhi and Michael Reiter . In Proceedings of the *21st International Conference on Distributed Computing Systems (ICDCS'01)*, Apr 16-19, 2001, Phoenix, Arizona, USA.
- [54] Consistency Conditions for a CORBA Caching Service e, by G. Chockler, R. Friedman and R. Vitenberg. In Proceedings of the 14th International Symposium on DIStributed Computing (DISC'2000), Oct 4-6, 2000, Toledo, Spain.
- [55] Implementing Caching Service for Distributed CORBA Objects, by G. Chockler, R. Vitenberg, R. Friedman, D. Dolev. In Proceedings of IFIP/ACM International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'2000), 3rd - 7th April 2000, IBM Palisades Executive Conference Center, Hudson River Valley, NY, USA. **Best paper award**.
- [56] An Adaptive Totally Ordered Multicast Protocol that Tolerates Partitions, by G. Chockler, N. Huleihel, D. Dolev. In Proceedings of the Seventeenth ACM Symposium on Principles of Distributed Computing (PODC'98), June 28 - July 2 1998, Puerto Vallarta, Mexico.
- [57] TransMIDI: A System for MIDI Sessions Over the Network Using Transis, by D. Gang, G. Chockler, T. Anker, A. Kremer, T. Winkler. In Proceedings of the International Computer Music Conference (ICMC'97), September 1997, Thessaloniki, Greece.
- [58] The Caelum Toolkit for CSCW: The Sky is the Limit, by T. Anker, G. Chockler, D. Dolev, I. Keidar. In Proceedings of the Third International Workshop on Next Generation Information Technologies and Systems (NGITS'97), Neve-Ilan, Israel, June, 1997.
- [59] Exploiting Group Communication for Highly Available Video-On-Demand Services, by T. Anker, G. Chockler, I. Keidar, M. Rozman, J. Wexler. In Proceedings of the IEEE 13th International Conference on Advanced Science and Technology (ICAT 97) and the 2nd International Conference on Multimedia Information Systems (ICMIS 97), April 1997, pages 265-270.
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