

Michael K. Reiter

Curriculum Vitae
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Education

Cornell University, Ithaca, New York, USA.

- Ph.D., Computer Science, August 23, 1993. Thesis: [238]
- M.S., Computer Science, August 26, 1991.

The University of North Carolina, Chapel Hill, North Carolina, USA.

- B.S., Mathematical Sciences with Highest Honors, May 14, 1989.
Highest Distinction (class rank: 1 of 3476).

Professional Experience

The University of North Carolina, Chapel Hill, North Carolina, USA.

- Lawrence M. Slifkin Distinguished Professor, Department of Computer Science (July 2007 – present)
- Associate Chair for Diversity, Department of Computer Science (August 2016 – present)

VMware Research Group, Palo Alto, California, USA.

- Scholar in Residence (summers, 2017 and 2018)

Carnegie Mellon University, Pittsburgh, Pennsylvania, USA.

- Professor of Electrical & Computer Engineering and Computer Science (October 2001 – June 2007)
- Founding Technical Director, CyLab

Bell Laboratories, Lucent Technologies, Murray Hill, New Jersey, USA.

- Director, Secure Systems Research (September 1998 – September 2001)

AT&T Labs – Research, Florham Park, New Jersey, USA (formerly AT&T Bell Laboratories).

- Principal Technical Staff Member (June 1996 – September 1998)
- Technical Staff Member (August 1993 – May 1996)

New York University, New York, New York, USA.

- Adjunct Assistant Professor (spring semester, 1998)

Awards and Honors

Named an **ACM Fellow** (2008) and **IEEE Fellow** (2014) for “contributions to computer security and fault-tolerant distributed computing.”

ACM SIGSAC Outstanding Contributions Award for “pioneering research contributions and leadership in computer and information security,” 2016.

Awards for scientific papers

- Outstanding Paper Award. 1994 IEEE Symposium on Research in Security and Privacy (for [48]).
- Best Paper Award. 3rd USENIX Workshop on Electronic Commerce (for [64]).
- Best Paper Award & Best Student Paper Award. 8th USENIX Security Symposium (for [70]).
- Best Paper Award. 12th ISOC Network and Distributed System Security Symposium (for [107]).
- Best Paper Award. 17th ISOC Network and Distributed System Security Symposium (for [173]).
- Best Paper Award. 6th International Conference on Internet Monitoring and Protection (for [185]).
- Winner of the 4th Annual Best Scientific Cybersecurity Paper Competition (for [217]).

Papers invited from the following conferences to appear in journals

- 1994 IEEE Symposium on Research in Security and Privacy ([48] invited, appears as [5])
- 1995 IEEE Symposium on Security and Privacy ([50] invited, appears as [6])
- 3rd ACM Conference on Computer and Communications Security ([53] invited, appears as [7])
- 9th IEEE Computer Security Foundations Workshop ([55] invited, appears as [8])
- 17th IEEE Symposium on Reliable Distributed Systems ([66] invited, appears as [15])
- 13th ACM Conference on Computer and Communications Security ([129] invited, appears as [29])
- 13th ACM Symposium on Access Control Models and Technologies ([152] invited, appears as [34])

Scholarships and fellowships

- John Motley Morehead Scholar. The University of North Carolina, 1985–89.
- United States National Science Foundation (NSF) Graduate Fellow. Cornell University, 1989–92.

Excellence in Teaching Award of the Computer Science Student Association, Department of Computer Science, University of North Carolina at Chapel Hill, 2009.

Scientific Lectures

Dr. Reiter has delivered numerous scientific lectures at scientific symposia, leading universities, and industrial research institutions. Below is a sample of noteworthy invited lectures.

- 6th Annual International Workshop on Selected Areas in Cryptography (Kingston, Ontario, Canada). August 10, 1999.
- 2nd Conference on Security in Communications Networks (Amalfi, Italy). September 17, 1999.
- 1999 Frontiers in Engineering Symposium, National Academy of Engineering (Irvine, CA, USA). October 14, 1999.
- Keynote address, 2002 Internet Society Symposium on Network and Distributed System Security (San Diego, CA, USA). February 8, 2002.
- Department colloquium, Department of Computer Science, Yale University (New Haven, CT, USA). April 3, 2003.
- Information Security Institute Seminar, Johns Hopkins University (Baltimore, MD, USA). April 8, 2003.
- 2nd NJITES Symposium on Cybersecurity and Trustworthy Software, Stevens Institute of Technology (Hoboken, NJ, USA). April 28, 2003.
- Triangle Computer Science Distinguished Lecture, hosted by Duke University, North Carolina State University, and the University of North Carolina (North Carolina, USA). March 1, 2004.
- Conference on Future Directions in Informatics, School of Informatics, Indiana University (Bloomington, IN, USA), September 11, 2004.
- Keynote address, 7th International Conference on Information Security and Cryptology (Seoul, Korea). December 2, 2004.
- Distinguished Lecture, Computer Science Department, Stony Brook University (Stony Brook, NY, USA), March 11, 2005.
- Department colloquium, Department of Computer Science, Columbia University (New York, NY, USA). April 6, 2005.
- Institute for Security Technology Studies, Dartmouth College (Hanover, NH, USA). May 19, 2005.
- Advanced Networks Colloquium, hosted by the Center for Satellite and Hybrid Communication Networks, the Department of Electrical and Computer Engineering, and the Institute for Systems Research at the University of Maryland (College Park, MD, USA). September 16, 2005.
- Cornell Computer Science 40th Anniversary Symposium, Cornell University (Ithaca, NY, USA). October 1, 2005.
- Distinguished Lecture, Information Trust Institute, University of Illinois at Urbana-Champaign (Urbana, IL, USA). January 18, 2006.
- Information Science & Technology Colloquium, NASA Goddard Space Flight Center (Greenbelt, MD, USA). February 8, 2006.
- ZISC Information Security Colloquium, ETH Zurich (Zurich, Switzerland). May 30, 2006.
- Information Security Institute Seminar, Johns Hopkins University (Baltimore, MD, USA). November 29, 2006.
- Department colloquium, Department of Computer Science, University of North Carolina (Chapel Hill, NC, USA). December 13, 2006.
- Second Workshop of the EU-US Summit Series on Cyber Trust: System Dependability and Security, hosted by the Information Trust Institute, University of Illinois at Urbana-Champaign (Monticello, IL, USA). April 26, 2007.
- Keynote address, 12th European Symposium on Research in Computer Security (Dresden, Germany). September 24, 2007.

- Distinguished Lecture, Department of Computer and Information Science, University of Pennsylvania (Philadelphia, PA, USA). October 9, 2007.
- A 30-Year Perspective on Replication (Monte Verita, Ascona, Switzerland). November 7, 2007.
- 3rd Bertinoro Ph.D. School on Security of Wireless Networking (Bertinoro, Italy). July 27 – August 1, 2008.
- Distinguished Lecturer Seminar Series, Computer Science Department, University of California at Irvine (Irvine, CA, USA). November 21, 2008.
- Keynote address, 10th International Symposium on Stabilization, Safety, and Security of Distributed Systems (Detroit, MI, USA). November 23, 2008.
- School of Electrical and Computer Engineering, Purdue University (West Lafayette, IN, USA). May 7, 2009.
- 7th International Conference on Applied Cryptography and Network Security (Paris-Rocquencourt, France). June 4, 2009.
- Keynote address, 29th International Conference on Distributed Computing Systems (Montreal, Canada). June 25, 2009.
- IFIP WG11.3 Conference on Data and Application Security (Montreal, Canada). July 12, 2009.
- Distinguished Speaker, Cray Colloquium Lecture Series, Department of Computer Science and Engineering, University of Minnesota (Minneapolis, MN, USA). October 19, 2009.
- Center for Applied Cybersecurity Research, Indiana University (Bloomington, IN, USA). December 3, 2009.
- Distinguished Colloquium, School of Informatics and Computing, Indiana University (Bloomington, IN, USA). December 4, 2009.
- Distinguished Lecture, Departments of Electrical & Computer Engineering and Computer Science, Iowa State University (Ames, IA, USA). March 12, 2010.
- IBM T.J. Watson Research Center (Hawthorne, NY, USA). March 16, 2010.
- Plenary lecture, MITACS International Focus Period: Advances in Network Analysis & its Applications – Network Security & Cryptography (Toronto, Ontario, Canada). June 24, 2010.
- MITACS Speaker Series on Privacy, University of Waterloo (Waterloo, Ontario, Canada). June 25, 2010.
- Distinguished Speaker Seminar, NEC Labs (Princeton, NJ, USA). August 13, 2010.
- Department of Electrical Engineering and Computer Science, University of Michigan (Ann Arbor, MI, USA). September 17, 2010.
- Distinguished Lecture, Department of Computer Science, University of Pittsburgh (Pittsburgh, PA, USA). January 21, 2011.
- Distinguished Lecture, Center for Advanced Security Research Darmstadt (Darmstadt, Germany). June 30, 2011.
- Distinguished Lecture, Department of Computer Science, University of Illinois at Urbana-Champaign (Urbana, IL, USA). October 24, 2011.
- Cyber Forum Speaker, Sandia National Labs (Albuquerque, NM, USA). June 5, 2012.
- CSE Colloquium and Distinguished Lecture, Department of Computer Science and Engineering, University of California at San Diego (San Diego, CA, USA). June 6, 2012.
- Keynote address, 3rd ACM Conference on Data and Application Security and Privacy (San Antonio, TX, USA). February 18, 2013.
- Distinguished Lecture, Department of Computing and Information Sciences, Kansas State University (Manhattan, KS, USA). March 6–7, 2013.
- Distinguished Lecture, Department of Computer Science, University of Texas at Dallas (Dallas, Texas, USA). March 8, 2013.
- Eminent Scholars Lecture Series, College of Engineering, University of South Florida (Tampa, FL, USA). March 22, 2013.

- CrySP Speaker Series on Privacy, School of Computer Science, University of Waterloo (Waterloo, Ontario, Canada). April 16, 2013.
- Distinguished Lecture, Department of Computer and Information Science, University of Pennsylvania (Philadelphia, PA, USA). September 24, 2013.
- Keynote address, 6th Symposium on Security Analytics and Automation (Washington, DC, USA). October 16, 2013.
- Keynote address, 16th Information Security Conference (Dallas, TX, USA). November 13, 2013.
- CyLab Seminar, Carnegie Mellon University (Pittsburgh, PA, USA). October 10, 2014.
- Keynote address, 22nd IEEE International Conference on Network Protocols (The Research Triangle, NC, USA). October 22, 2014.
- Distinguished Lecture, Department of Computer Science, University of Calgary (Calgary, Alberta, Canada). November 20, 2014.
- Computer Science Colloquium, Viterbi School of Engineering, University of Southern California (Los Angeles, California, USA). January 20, 2015.
- Department Colloquium, Computer Science Department, Duke University (Durham, NC, USA). February 2, 2015.
- Keynote address, Symposium and Bootcamp on the Science of Security, University of Illinois at Urbana-Champaign (Urbana, IL, USA). April 21, 2015.
- Keynote address, 7th ACM Cloud Computing Security Workshop (Denver, CO, USA). October 16, 2015.
- Keynote address, 9th International Conference on Network and System Security (New York, NY, USA). November 4, 2015.
- Distinguished Lecture, Department of Computer and Information Science and Engineering, University of Florida (Gainesville, FL, USA). November 20, 2015.
- Distinguished Lecture, College of Information and Computer Sciences, University of Massachusetts Amherst (Amherst, MA, USA). December 2, 2015.
- Distinguished Lecture, Computer Science and Engineering Department, University of California – Riverside (Riverside, CA, USA). January 11, 2016.
- Keynote address, GENI Regional Workshop (Clemson, SC, USA). December 2, 2016.
- Distinguished Lecture, Texas A&M Cybersecurity Distinguished Lecture Series (College Station, TX, USA). December 6, 2016.
- VMware Research Group (Palo Alto, CA, USA). January 12, 2017.
- Distinguished Lecture, Department of Computer Science, University of Illinois at Chicago (Chicago, IL, USA). September 14, 2017.
- CyLab Distinguished Seminar, Carnegie Mellon University (Pittsburgh, PA, USA). November 27, 2017.
- Distinguished Speaker Series, Department of Computer Science, Colorado School of Mines (Denver, CO, USA). January 11, 2018.
- Washington Area Trustworthy Computing Hour (WATCH) seminar, National Science Foundation (Alexandria, VA, USA). January 18, 2018.
- Distinguished Lecture, Northeastern Cybersecurity and Privacy Institute, Northeastern University (Boston, MA, USA). September 18, 2018.

Professional Service

Journal editorships

- *ACM Transactions on Information and System Security*
Associate Editor (January 2000–July 2004)
Editor-in-Chief (August 2004–December 2008)
- *Communications of the ACM*
Editorial Board member (November 2007–November 2011)
- *IEEE Transactions on Software Engineering*
Associate Editor (2000–2004)
- *International Journal on Information Security*
Associate Editor (2001–2006)
- *IEEE Transactions on Dependable and Secure Computing*
Associate Editor (2004)
 Note: Position resigned in 2005 due to other obligations.
- *IEEE Internet Computing*
 Guest Editor, special issue on Survivable Distributed Systems (November/December 1999 issue)
 Guest Editor, special issue on Homeland Security (November/December 2004 issue)

Conference program committees

* = *Program Chair or Co-Chair*; + = *Program Subcommittee Chair or Associate Chair*

ACM Cloud Computing Security Workshop	2014, 2016*
ACM Conference on Computer and Communications Security (CCS)	1996, 1997, 1998*, 1999, 2001, 2002, 2003, 2008, 2011, 2012, 2013, 2014
ACM Conference on Data and Application Security and Privacy (CODASPY)	2013
ACM Conference on Electronic Commerce	1999, 2003, 2005*
ACM Conference on Principles of Distributed Computing (PODC)	1999, 2002, 2005
ACM SIGCOMM Conference	2008
ACM Symposium on Operating Systems Principles (SOSP)	2017
ACM Symposium on Information, Computer and Communications Security (ASIACCS)	2006, 2008, 2012*
CQRE—Secure Networking Conference	1999
Cryptographer's Track, RSA Conference	2001
DARPA Information Survivability Conference and Exposition	2003
European Symposium on Research in Computer Security (ESORICS)	2010
IEEE Computer Security Foundations (CSF)	1995, 1996, 2000, 2004
IEEE INFOCOM	2011
IEEE Symposium on Reliable Distributed Systems (SRDS)	2005
IEEE Symposium on Security and Privacy	1994, 1995, 1996, 1997, 1998, 1999*, 2000*, 2004, 2005, 2010, 2011, 2015, 2016, 2019
IEEE Workshop on Resource Sharing in Massively Distributed Systems	2002

IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)	2006, 2007, 2008, 2009, 2013, 2014*
IFIP International Working Conference on Dependable Computing for Critical Applications (DCCA)	1999
IFIP Working Conference on Communications and Multimedia Security	1999
Information Hiding Workshop	2001, 2002, 2004*
Information Security Conference (ISC)	2003, 2004
Information/System Survivability Workshop	2001
International Conference on Cryptology and Network Security (CANS)	2015*
International Conference on Distributed Computing Systems (ICDCS)	1999, 2001, 2002, 2005 ⁺ , 2008, 2010
International Conference on Information and Communications Security	2002
International Conference on Principles of Distributed Systems	2005
International Conference on Trust and Trustworthy Computing	2012*
International Symposium on Distributed Computing (DISC)	1999, 2004, 2007
International Workshop on Electronic Commerce	2001
International Workshop on Security	1999
International Workshop on Security and Privacy in Cloud Computing (SPCC)	2010
Network and Distributed System Security Symposium (NDSS)	2003*, 2004*, 2007, 2009, 2010, 2012, 2013, 2016, 2017, 2018, 2019
Privacy Enhancing Technologies Symposium (PETS)	2006, 2007, 2015, 2018
Symposium on Usable Privacy and Security (SOUPS)	2012, 2013, 2014, 2015, 2018
USENIX Annual Technical Conference	2019
USENIX Security Symposium	1998, 2002, 2006, 2008, 2009
USENIX Workshop on Hot Topics in Dependability (HotDep)	2012, 2013
USENIX Workshop on Hot Topics in Security (HotSec)	2009
Workshop on Intrusion Tolerant Systems	2002
Workshop on Privacy Enhancing Tools (PETools)	2013
Workshop on Secure Network Protocols	2008
World Wide Web Conference (WWW)	2006

Other conference service

- Publicity Chair, 4th ACM Conference on Computer and Communications Security (1997)
- Vice Chair, 1997 IEEE Symposium on Security and Privacy
- General Chair, 1998 IEEE Symposium on Security and Privacy

- General Chair, 8th ACM Conference on Computer and Communications Security (2001)
- Steering Committee, ACM Conference on Computer and Communications Security (1999–2002)
- Steering Committee, ACM Symposium on Information, Computer and Communications Security (2010–2013)
- Steering Committee, IEEE/IFIP International Conference on Dependable Systems and Networks (2011–2014)
- Steering Committee, Symposium on Usable Security and Privacy (2018–present)

IEEE Technical Committee on Security and Privacy

- Chair, Subcommittee on Conferences (1998)
- **Vice Chair** (2000–2001)
- **Chair** (2002–2003)

Board of Visitors, Software Engineering Institute, Carnegie Mellon University (July 2003–Aug 2009)

External Review Committee, Information Security M.S. program of the College of Computing, Georgia Institute of Technology (April 2014)

The Morehead-Cain Scholars Program

- Central Selection Committee (2009, 2011–14)
- Alumni Reader (2010)

U.S. Government service

- INFOSEC Science and Technology Study Group of the INFOSEC Research Council (1997–98)
- DARPA Study Panel on Self-Healing Systems (2001–02)
- Chair, DARPA Workshop on Self-Regenerative Systems (October 2002)
- Chair, National Science Foundation Principal Investigator Meeting (August 2004)
- Organizing Committee, National Science Foundation Study on Grand Challenges in Distributed Computing (July–September 2005)
- NSF Global Environment for Network Innovations (GENI)
 - Distributed Services Working Group (December 2005 – May 2007)
 - Planning Group (March 2006 – May 2007)
- IARPA NICIAR Study on Safely Taking on New Executable Stuff of Uncertain Provenance (May 2008 – August 2008)
- Board of Visitors, Army Research Laboratory – Army Research Office Computing Sciences Division Review (May 5–6, 2010)
- Department of Commerce Emerging Technology and Research Advisory Committee (September 2008 – September 2012)
- Steering Committee, NSF Cyberspace 2025 Workshop (November 2013 – April 2014)

Scientific Publications

Publications in refereed journals

- [1] M. K. Reiter and K. P. Birman. [How to securely replicate services](#). *ACM Transactions on Programming Languages and Systems* 16(3):986–1009, May 1994.
- [2] M. Blaze, J. Lacy, T. London, and M. Reiter. **Issues and mechanisms for trustworthy systems: Creating transparent mistrust**. *AT&T Technical Journal* 73(5):30–39, September 1994.
- [3] M. K. Reiter, K. P. Birman, and R. van Renesse. [A security architecture for fault-tolerant systems](#). *ACM Transactions on Computer Systems* 12(4):340–371, November 1994.
- [4] M. K. Reiter and L. Gong. [Securing causal relationships in distributed systems](#). *The Computer Journal* 38(8):633–642, Oxford University Press, 1995. Preliminary version appears as [47].
- [5] M. K. Reiter. [A secure group membership protocol](#). *IEEE Transactions on Software Engineering* 22(1):31–42, January 1996. Preliminary version appears as [48].
- [6] M. K. Franklin and M. K. Reiter. [The design and implementation of a secure auction service](#). *IEEE Transactions on Software Engineering* 22(5):302–312, May 1996. Preliminary version appears as [50].
- [7] M. K. Reiter, M. K. Franklin, J. B. Lacy, and R. N. Wright. **The Ω key management service**. *Journal of Computer Security* 4(4):267–287, IOS Press, 1996. Preliminary version appears as [53].
- [8] D. Malkhi and M. Reiter. **A high-throughput secure reliable multicast protocol**. *Journal of Computer Security* 5:113–127, IOS Press, 1997. Preliminary version appears as [55].
- [9] D. Malkhi and M. Reiter. [Byzantine quorum systems](#). *Distributed Computing* 11(4):203–213, 1998. Preliminary version appears as [58].
- [10] M. K. Reiter and A. D. Rubin. [Crowds: Anonymity for web transactions](#). *ACM Transactions on Information and System Security* 1(1):66–92, November 1998.
- [11] M. K. Reiter and S. G. Stubblebine. [Resilient authentication using path independence](#). *IEEE Transactions on Computers* 47(12):1351–1362, December 1998. Preliminary version appears as [57].
- [12] V. Anupam, A. Mayer, K. Nissim, B. Pinkas, and M. K. Reiter. [On the security of pay-per-click and other web advertising schemes](#). *Computer Networks* 31:1091–1100, 1999. Also appears as [69].
- [13] M. K. Reiter and S. G. Stubblebine. [Authentication metric analysis and design](#). *ACM Transactions on Information and System Security* 2(2):138–158, May 1999. Preliminary version appears as [59].
- [14] D. Malkhi, M. K. Reiter, and A. Wool. [The load and availability of Byzantine quorum systems](#). *SIAM Journal of Computing* 29(6):1889–1906, 2000. Preliminary version appears as [61].
- [15] D. Malkhi and M. K. Reiter. [An architecture for survivable coordination in large distributed systems](#). *IEEE Transactions on Knowledge and Data Engineering* 12(2):187–202, March/April 2000. Combines and extends [65][66].
- [16] D. Malkhi and M. K. Reiter. [Secure execution of Java applets using a remote playground](#). *IEEE Transactions on Software Engineering* 26(12):1197–1209, December 2000. Preliminary version appears as [63].
- [17] R. De Prisco, D. Malkhi, and M. K. Reiter. [On \$k\$ -set consensus problems in asynchronous systems](#). *IEEE Transactions on Parallel and Distributed Systems* 12(1):7–21, January 2001. Preliminary version appears as [68].
- [18] L. Alvisi, D. Malkhi, E. Pierce, and M. K. Reiter. [Fault detection for Byzantine quorum systems](#). *IEEE Transactions on Parallel and Distributed Systems* 12(9):996–1007, September 2001. Preliminary version appears as [67].
- [19] D. Malkhi, M. K. Reiter, A. Wool, and R. N. Wright. [Probabilistic quorum systems](#). *Information and Computation* 170(2): 184–206, November 1, 2001. Preliminary version appears as [62].

- [20] P. Samarati, M. K. Reiter and S. Jajodia. [An authorization model for a public key management service](#). *ACM Transactions on Information and System Security* 4(4):453–482, November 2001.
- [21] F. Monrose, M. K. Reiter, and S. G. Wetzel. [Password hardening based on keystroke dynamics](#). *International Journal of Information Security* 1(2):69–83, February 2002. Preliminary version appears as [72].
- [22] P. Felber and M. K. Reiter. [Advanced concurrency control in Java](#). *Concurrency and Computation: Practice and Experience* 14(4):261–285, Wiley, 2002.
- [23] D. Malkhi, Y. Mansour and M. K. Reiter. [Diffusion without false rumors: On propagating updates in a Byzantine environment](#). *Theoretical Computer Science* 299:289–306, 2003. Preliminary version appears as [71].
- [24] D. Malkhi, M. Merritt, M. K. Reiter, and G. Taubenfeld. [Objects shared by Byzantine processes](#). *Distributed Computing* 16(1):37–48, 2003. Preliminary version appears as [74].
- [25] P. MacKenzie and M. K. Reiter. [Networked cryptographic devices resilient to capture](#). *International Journal of Information Security* 2(1):1–20, November 2003. Preliminary version appears as [77].
- [26] P. MacKenzie and M. K. Reiter. [Delegation of cryptographic servers for capture-resilient devices](#). *Distributed Computing* 16(4):307–327, December 2003. Preliminary version appears as [84].
- [27] P. MacKenzie and M. K. Reiter. [Two-party generation of DSA signatures](#). *International Journal of Information Security* 2(3–4):218–239, August 2004. Preliminary version appears as [82].
- [28] M. K. Reiter and A. Samar. [Quiver: Consistent object sharing for edge services](#). *IEEE Transactions on Parallel and Distributed Systems* 19(7):878–889, July 2008.
- [29] X. Wang and M. K. Reiter. [A multi-layer framework for puzzle-based denial-of-service defense](#). *International Journal of Information Security* 7(4):243–263, August 2008. Combines and extends [88][104].
- [30] X. Wang, Z. Li, J. Y. Choi, J. Xu, M. K. Reiter, and C. Kil. [Fast and black-box exploit detection and signature generation for commodity software](#). *ACM Transactions on Information and System Security* 12(2), December 2008. Preliminary version appears as [129].
- [31] J. M. McCune, A. Perrig and M. K. Reiter. [Seeing-is-believing: Using camera-phones for human-verifiable authentication](#). *International Journal on Security and Networks* 4(1–2):43–56, 2009. Preliminary version appears as [110].
- [32] D. Gao, M. K. Reiter and D. Song. [Beyond output voting: Detecting compromised replicas using HMM-based behavioral distance](#). *IEEE Transactions on Dependable and Secure Computing* 6(2):96–110, April–June 2009. Preliminary version appears as [127].
- [33] X. Wang and M. K. Reiter. [Using web-referral architectures to mitigate denial-of-service threats](#). *IEEE Transactions on Dependable and Secure Computing* 7(2):203–216, April–June 2010. Preliminary version appears as [128].
- [34] L. Bauer, S. Garriss and M. K. Reiter. [Detecting and resolving policy misconfigurations in access-control systems](#). *ACM Transactions on Information and System Security* 14(1), May 2011. Preliminary version appears as [152].
- [35] Y. Liu, P. Ning and M. K. Reiter. [False data injection attacks against state estimation in electric power grids](#). *ACM Transactions on Information and System Security* 14(1), May 2011. Preliminary version appears as [169].
- [36] D. Bethea, R. A. Cochran and M. K. Reiter. [Server-side verification of client behavior in online games](#). *ACM Transactions on Information and System Security* 14(4), December 2011. Preliminary version appears as [173].
- [37] A. A. Yavuz, P. Ning and M. K. Reiter. [BAF and FI-BAF: Efficient and publicly verifiable cryptographic schemes for secure logging in resource-constrained systems](#). *ACM Transactions on Information and System Security* 15(2), July 2012.

- [38] M. Abd-El-Malek, M. Wachs, J. Cipar, K. Sanghi, G. R. Ganger, G. A. Gibson, and M. K. Reiter. [File system virtual appliances: Portable file system implementations](#). *ACM Transactions on Storage* 8(3), September 2012.
- [39] S. E. Coull, A. M. White, T.-F. Yen, F. Monroe and M. K. Reiter. [Understanding domain registration abuses](#). *Computers & Security* 31(7):806–815, October 2012. Preliminary version appears as [177].
- [40] H.-C. Kum, A. Krishnamurthy, A. Machanavajjhala, M. K. Reiter, and S. Ahalt. [Privacy preserving interactive record linkage \(PIRL\)](#). *Journal of the American Medical Informatics Association*, November 2013.
- [41] P. Li, D. Gao, and M. K. Reiter. [StopWatch: A cloud architecture for timing channel mitigation](#). *ACM Transactions on Information and System Security* 17(2), November 2014. Preliminary version appears as [201].
- [42] L. Wei and M. K. Reiter. [Toward practical encrypted email that supports private, regular-expression searches](#). *International Journal on Information Security* 14(5):397–416, October 2015.
- [43] Q. Xiao, M. K. Reiter, and Y. Zhang. [Persistent pseudonyms for servers in the cloud](#). *Proceedings on Privacy Enhancing Technologies* 4:271–289, 2017.
- [44] Q. Ismail, T. Ahmed, K. Caine, A. Kapadia, and M. Reiter. [To permit or not to permit, that is the usability question: Crowdsourcing mobile apps’ privacy permission settings](#). *Proceedings on Privacy Enhancing Technologies* 4:119–137, 2017.
- [45] Z. Mi, H. Chen, Y. Zhang, S. Peng, X. Wang, and M. Reiter. [CPU elasticity to mitigate cross-VM runtime monitoring](#). *IEEE Transactions on Dependable and Secure Computing*, June 2018.

Symposium, conference, and workshop publications

- [46] M. K. Reiter, K. P. Birman, and L. Gong. [Integrating security in a group oriented distributed systems](#). In *Proceedings of the 1992 IEEE Symposium on Research in Security and Privacy*, pages 18–32, May 1992. Also appears as [238].
- [47] M. K. Reiter and L. Gong. [Preventing denial and forgery of causal relationships in distributed systems](#). In *Proceedings of the 1993 IEEE Symposium on Research in Security and Privacy*, pages 30–40, May 1993.
- [48] M. K. Reiter. [A secure group membership protocol](#). In *Proceedings of the 1994 IEEE Symposium on Research in Security and Privacy*, pages 176–189, May 1994. Received **Outstanding Paper Award**.
- [49] M. K. Reiter. [Secure agreement protocols: Reliable and atomic group multicast in Rampart](#). In *Proceedings of the 2nd ACM Conference on Computer and Communication Security*, pages 68–80, November 1994.
- [50] M. K. Franklin and M. K. Reiter. [The design and implementation of a secure auction service](#). In *Proceedings of the 1995 IEEE Symposium on Security and Privacy*, pages 2–14, May 1995.
- [51] M. K. Franklin and M. K. Reiter. [Verifiable signature sharing](#). In *Advances in Cryptology—EUROCRYPT '95* (Lecture Notes in Computer Science 921), pages 50–63, Springer-Verlag, 1995.
- [52] M. K. Reiter. [The Rampart toolkit for building high-integrity services](#). In *Theory and Practice in Distributed Systems* (Lecture Notes in Computer Science 938), pages 99–110, Springer-Verlag, 1995.
- [53] M. K. Reiter, M. K. Franklin, J. B. Lacy, and R. N. Wright. [The \$\Omega\$ key management service](#). In *Proceedings of the 3rd ACM Conference on Computer and Communications Security*, pages 38–47, March 1996.
- [54] D. Coppersmith, M. Franklin, J. Patarin, and M. Reiter. [Low-exponent RSA with related messages](#). In *Advances in Cryptology – EUROCRYPT '96* (Lecture Notes in Computer Science 1070), pages 1–9, Springer-Verlag, 1996.
- [55] D. Malkhi and M. Reiter. [A high-throughput secure reliable multicast protocol](#). In *Proceedings*

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