Dr. Fred Cohen PO Box 811 – Pebble Beach CA 93953 US+831-200-4006

Education:

Ph.D. Electrical Engineering - University of Southern California, 1986 M.S. Information Science - University of Pittsburgh, 1980 B.S. Electrical Engineering - Carnegie-Mellon University, 1977

Significant Positions (* current):

* CEO, Management Analytics, 1977-present (2012-07 CA successor to previous company)

* Member, Angel To Exit, LLC, 2016-11 - present

Member, AugaTerra, LLC, 2021-06 - 2024-12

Producer and Host, The Cyber Show (KMBY Radio 1240), 2022-11 - 2024-06

Member, CTE4, LLC, 2021-11 - 2022-12

Member, Ulysses Support Group, LLC, 2020-05 – 2021-11

Member, Fearless Security, LLC 2014-08 - 2020-12

President, Keiretsu Forum - Pebble Beach, 2016-02 - 2020-05

Member, Monterey Incubator, LLC, 2017-11 – 2018-11

Member, Can Do Funds, LLC, 2018-01 - 2018-11

Member, Fearless Ridge, LLC 2015-07 - 2018-09

Director, Webster University CyberSpace Research Institute, 2016-07 – 2017-12

Interim Director, Webster University Cyber Laboratories, 2013-11 - 2017-12

CEO, Fred Cohen & Associates, 1986-03 – 2015-12

President, California Sciences Institute, 2007-11 - 2012-12

Community Faculty Member, Metropolitan State University, 04/08-01/09

Adjunct Professor, University of San Francisco, 08/07-08/08

Research Professor, University of New Haven, 09/02-08/08

Chairman, Security Posture, 10/02-09/06

Principal Analyst, Burton Group, 04/03-04/06

Principal Member of Technical Staff, Sandia National Laboratories, 10/97-11/02

Chief Computer Forensic Scientist/Investigator, TAL Global, 09/01-11/02

Senior Member Technical Staff, Sandia National Laboratories, 7/96-9/97

Practitioner in Residence. University of New Haven. 06/98-09/02

Senior Scientist, SAIC, Inc., 7/93-6/95

Chairman, AllThings Incorporated, 1/95-1/96

Board Member, AllThings Incorporated, 6/94-1/96

Professor, Queensland University of Technology (visiting), 7/92-12/92

President, The Radon Project, Inc. 3/87-10/89

Asst. Professor, University of Cincinnati, 9/87-12/88

Asst. Professor, Lehigh University, 1/86-8/87

Lecturer, Lehigh University, 1/85-12/85

Editorial Boards, Program Committees:

2013-present, International Conference on Digital Forensics & Cyber Crime

2011-present, Journal of Digital Forensics, Security, and Law (Topic editor: Science)

2010-present, Board of Referees for Forensic Science International: Digital Investigation

2009-present, IFIP WG 11.10 Program Committee (reviewer)

2008-present, IFIP WG 11.9 Program Committee (reviewer)

2007-present, EDP Audit, Control, and Security (EDPACS)

2005-present, Journal of Computer Virology (occasional)

1987-present, IFIP TC-11 journal Computers and Security 2007-2011, MiniMetriCon Program Committee (and founding chair)

2010-2011, IEEE Security & Privacy, Beyond the Horizon (co-editor)

- 1995-2002, Network Security Magazine
- 1990-1993, ACM/SigSAC Annual Student Paper Review Board
- 1989-1991, DPMA, IEEE, and ACM Computer Virus and Security Conference
- 1989-1991, Computer Virus Bulletin

Honors and Awards:

- 2011: Honorary Doctorate (Honoris causa) Computer Science, University of Pretoria, South Africa
- 2011: International Information Systems Security Certification Consortium Fellow of the (ISC)2
- 2004: Burton Group Best Award
- 2002: Sandia Certificate of Appreciation (CCD Program)
- 2002: Techno-Security Industry Professional of the Year
- 2001: Sandia Employee Recognition Award (College Cyber Defenders)
- 2000: Sandia Meritorious Achievement Award (Security Immersion Program)
- 2000: Sandia Award for Excellence (Cyber Security / Surety)
- 1999: Sandia Exceptional Service Award (Security Awareness Work)
- 1998: Sandia Exceptional Service Award (Red Team Work)
- 1989: UK IT Auditors: Information Technology Award

Professional Societies

Information Professionals Association – Founding lifetime member, 2017 International Information Systems Security Certification Consortium – Fellow of the (ISC)² IEEE - Senior member

Books and Book Chapters not otherwise listed:

- F. Cohen, "Protection and Engineering Design Issues in Critical Infrastructures", pp67-153 in Thomas A. Johnson Ed. "CyberSecurity Protecting Critical Infrastructures from Cyber Attack and Cyber Warfare", 2015, CRC Press, ISBN 978-1-4822- 3922-5.
- F. Cohen, "Challenges to Digital Forensic Evidence in the Cloud", in "Cybercrime and Cloud Forensics: Applications for Investigation Processes", K. Ruan, Ed. 978-1-4666-2662-1, 2013.
- F. Cohen, "Digital Forensic Evidence Examination", ASP Press, 2nd ed., 2010, 3rd ed., 2011, 4th ed, 2012
- F. Cohen, "Fundamentals of Digital Forensic Evidence", (chapter in Handbook of Information and Communications Security, Springer, 2010, pp 789-808, Mark Stamp and Peter Stavroulakis, Ed.).
- F. Cohen, "Digital Forensic Evidence Examination", ASP Press, 2009
- F. Cohen, "Enterprise Information Protection Architecture", ASP Press, 2008
- F. Cohen, "Challenges to Digital Forensic Evidence", ASP Press, 2008
- F. Cohen, "A Framework for Deception", (chapter in National Security Issues in Science, Law, and Technology), Thomas A. Johnson, Ed. Taylor & Francis, 2007.
- F. Cohen, "Critical Infrastructure Protection: Issues and Answers", (one chapter in National Security Issues in Science, Law, and Technology), Thomas A. Johnson, Ed. Taylor & Francis, 2007. (in press).
- F. Cohen, "Information Warfare, Netwar, and Cyber Intelligence.", (chapter in National Security Issues in Science, Law, and Technology), Thomas A. Johnson, Ed. Taylor & Francis, 2007.
- F. Cohen, "Challenges to Digital Forensic Evidence", (chapter in "Forensic Computer Crime Investigation", Thomas A. Johnson, Ed. Taylor & Francis, 2006
- F. Cohen, "Security Decisions", ASP Press, 2006
- F. Cohen, "IT Security Governance Guidebook with Security Program Metrics on CD-ROM." , Taylor & Francis/CRC Press, 2006
- F. Cohen, "The Use of Deception Techniques: Honeypots and Decoys", (chapter in Handbook of Information Security), V3, p646. Wiley and Sons, 2006.
- World War 3 ... Information Warfare Basics , ASP Press, 2006
- Information Security Awareness Basics, ASP Press, 2006
- Frauds, Spies, and Lies and how to defeat them, ASP Press, 2005
- The CISO ToolKit: Security Checklists Governance , ASP Press, 2005

The CISO ToolKit: Security Metrics, ASP Press, 2005

The CISO ToolKit: Governance Guidebook, ASP Press, 2005

Protection and Security on the Information Superhighway, John Wiley and Sons (1995)

F. Cohen, "It's Alive!!!", John Wiley and Sons (1994)

F. Cohen, "A Short Course in Computer Viruses (2nd edition)", John Wiley and Sons (1994)

F. Cohen, "A Short Course on Systems Administration and Security Under Unix", ASP Press, (1992)

F. Cohen, "Payback - Automated Bill Collection System", ASP Press (1992)

F. Cohen, "A Short Course in Computer Viruses", ASP Press (1991)

F. Cohen, "The ASP Integrity Toolkit", ASP Press (1990)

F. Cohen, "Introductory Information Protection", ASP Press (1987)

F. Cohen, "Computer Viruses", ASP Press, (1985)

Patents:

F. Cohen, US Patent No. 12,273,369 - Scaleable Cyber Security Assessment System and Method

F. Cohen, US Patent No. 12,346,638 - Cognology and Cognometrics System and Method.

F. Cohen, US Patent No. 12,229,479 - Cognology and Cognometrics System and Method.

F. Cohen, US Patent No. 11,997,123 - Scaleable Cyber Security Assessment System and Method

F. Cohen, Method and/or system for providing and/or analyzing and/or presenting decision strategies", US Patent 11,741,481

F. Cohen, "Method and/or System for Providing and/or Analyzing and/or Presenting Decision Strategies", 11,023,901 B2 [also 17236898 pending continuation]

F. Cohen, "Method and/or system for providing and/or analyzing influence strategies", US20070156814A1, US 8,095,492 B2

F. Cohen, "Scalable Cyber Security Assessment System and Method", Pending 15/212,159

F. Cohen, D. Rogers, V. Neagoe, "Method and apparatus providing deception and/or altered operation in an information system operating system", US20050076237A1, US 7,437,766 B2

F. Cohen, "Method and apparatus for network deception/emulation", US 7,107,347 B1

F. Cohen, D. Rogers, V. Neagoe, "Method and apparatus providing deception and/or altered execution of logic in an information system", US20040168173A1, US 7,296,274 B2

F. Cohen, "Method And Apparatus For Network Deception/Emulation", US20070115993A1, US 7,516,227 B2

F. Cohen, A. Carathimas, E. Thomas, "Method and apparatus for configurable communication network defenses", US20040162994A1

F. Cohen, A. Carathimas, E. Thomas, "Method and apparatus for specifying communication indication matching and/or responses", US20040153574A1

F. Cohen, A. Carathimas, E. Thomas, ", "Method and apparatus for invisible network responder",

F. Cohen, "Detecting Inconsistencies Consistent With Subversion of Normal Operations in an Operating Environment" (pending) 61/531,609

F. Cohen, "Depiction of Digital Data for Forensic Purposes", (pending)

Refereed journal articles:

F. Cohen, M. Leverich, M. Whyte, E. Sengsavang, and G. Hurley, "Limited Consensus around ARM Information Protection Practices", Journal of the South African Society of Archivists, Vol 49 (2016).

F. Cohen, "Digital diplomatics and forensics: Going forward on a global basis", Records Management Journal, 2015-03

Cohen F, Cohen D, "Time and space interval record schedule consistency analysis for atomic items without interactions in open spaces with stationary locations", Computers & Security (2014), http://dx.doi.org/10.1016/j.cose.2014.03.002

F. Cohen, "Identifying and Attributing Similar Traces with Greatest Common Factor Analysis", J. of Digital Forensics, Security, and Law, V7#2, 2012.

F. Cohen, "A Case Study in Forensic Analysis of Control", Journal of Digital Forensics, Security, and Law., V6#1, 2011.

- F. Cohen, "A Method for Forensic Analysis of Control", IFIP TC11, Computers & Security, V29#8, pp 891-902, Nov., 2010, doi: 10.1016/j.cose.2010.05.003
- F. Cohen, et. al. "Leading Attackers Through Attack Graphs with Deceptions", IFIP-TC11, `Computers and Security', V22#5, July 2003, pp. 402-411(10)
- F. Cohen, et. al. "A Mathematical Structure of Simple Defensive Network Deceptions", IFIP-TC11, Computers and Security', Volume 19, Number 6, 1 October 2000, pp. 520-528(9)
- Cohen F.; Phillips C.; Swiler L.P.; Gaylor T.; Leary P.; Rupley F.; Isler R., "A Cause and Effect Model of Attacks on Information Systems. Some Analysis Based on That Model, and The Application of that Model for CyberWarfare in CID", IFIP-TC11 Computers and Security, V17#3, 1998 pp. 211-221 (11)
- F. Cohen, "Providing for Responsibility in a Global Information Infrastructure ", IFIP-TC11, Computers and Security', 1997.
- F. Cohen, "Simulating Cyber Attacks, Defenses, and Consequences", IFIP-TC11, `Computers and Security', 1999, vol. 18, no. 6, pp. 479-518(40)
- F. Cohen, et. al. "Intrusion Detection and Response", IFIP-TC11, `Computers and Security', V16,#6, 1997, pp. 516-516(1) (also appearing below under National Info-Sec Technical Baseline studies from Dec, 1996)
- F. Cohen, "A Note on the Role of Deception in Information Protection", IFIP-TC11, Computers and Security, 1998, vol. 17, no. 6, pp. 483-506(24)
- F. Cohen, "Information System Defences: A Preliminary Classification Scheme", IFIP TC-11, Computers and Security, V16,#2, 1997, pp. 94-114(21)
- F. Cohen, "A Note on Distributed Coordinated Attacks", IFIP-TC11, `Computers and Security', Volume 15, Number 2, 1996, pp. 103-121(19), also appearing as an invited paper in 4th Computer Misuse and Anomaly Detection Workshop, Monterey, 1996 (referenced below).
- F. Cohen, "A Secure World-Wide-Web daemon", IFIP-TC11, `Computers and Security', V15#8, 1996, pp. 707-724(18)
- F. Cohen, "Operating Systems Protection Through Program Evolution", IFIP-TC11 `Computers and Security' (1993) V12#6 (Oct. 1993) pp.565 584
- J. Voas, J. Payne, F. Cohen "A Model for Detecting the Existence of Software Corruption in Real-Time", IFIP-TC11 "Computers and Security", V12#3 May, 1993 pp. 275-283.
- F. Cohen, "A Formal Definition of Computer Worms and Some Related Results", IFIP-TC11 "Computers and Security" V11#7, November, 1992, pp. 641-652.
- F. Cohen, "Defense-In-Depth Against Computer Viruses", IFIP-TC11 "Computers and Security", V11#6, 1992 pp. 563-579.
- F. Cohen, "A DOS Based POset Implementation", IFIP-TC11 "Computers and Security", V10#6, October 1991.
- F. Cohen, "A Note On High Integrity PC Bootstrapping", IFIP-TC11 "Computers and Security", V10#6, October 1991.
- F. Cohen, "A Cost Analysis of Typical Computer Viruses and Defenses", IFIP-TC11 "Computers and Security", V10#3, May, 1991 (also appearing in 4th DPMA, IEEE, ACM Computer Virus and Security Conference, 1991)
- F. Cohen, "Automated Integrity Maintenance for Viral Defense", IFIP-TC11 "Computers and Security", 1990
- F. Cohen, "Computational Aspects of Computer Viruses", IFIP-TC11, "Computers and Security", V8 pp325-344, 1989.
- Y. J. Huang and F. Cohen, "Some Weak Points of One Fast Cryptographic Checksum Algorithm and its Improvement", IFIP-TC11 "Computers and Security", V8#1, February, 1989
- B. Cohen and F. Cohen, "Error Prevention at a Radon Measurement Service Laboratory", Radiation Protection Management, V6#1, pp43-47, Jan. 1989
- F. Cohen, "Models of Practical Defenses Against Computer Viruses", IFIP-TC11, "Computers and Security", V8#2, April, 1989 pp149-160.
- F. Cohen, "Two Secure Network File Servers", IFIP-TC11, "Computers and Security", V7#4, August, 1988.

- F. Cohen, "Designing Provably Correct Information Networks with Digital Diodes", IFIP-TC11, "Computers and Security", V7#3, June, 1988.
- F. Cohen, "On the Implications of Computer Viruses and Methods of Defense", Invited Paper, IFIP-TC11, "Computers and Security", V7#2, April, 1988,
- F. Cohen, "Maintaining a Poor Person's Information Integrity", IFIP-TC11, "Computers and Security", V7#1, Feb 1988.
- F. Cohen, "A Cryptographic Checksum for Integrity Protection", IFIP-TC11 "Computers and Security", V6#6 (Dec. 1987), pp 505-810.
- F. Cohen, "Design and Protection of an Information Network Under a Partial Ordering: A Case Study", IFIP-TC11, "Computers and Security", V6#4 (Aug. 1987) pp 332-338.
- F. Cohen, "Design and Administration of Distributed and Hierarchical Information Networks Under Partial Orderings", IFIP-TC11, "Computers and Security", V6#3 (June 1987), pp 219-228.
- F. Cohen, "Protection and Administration of Information Networks with Partial Orderings", IFIP-TC11, "Computers and Security", V6#2 (April 1987) pp 118-128.
- F. Cohen, "Computer Viruses Theory and Experiments", DOD/NBS 7th Conference on Computer Security, originally appearing in IFIP-sec 84, also appearing as invited paper in IFIP-TC11, "Computers and Security", V6#1 (Jan. 1987), pp 22-35 and other publications in several languages.
- F. Cohen, "A Secure Computer Network Design", IFIP-TC11, "Computers and Security", V4#3, (Sept. 1985), pp 189-205, also appearing in AFCEA Symp. and Expo. on Physical and Electronic Security, Aug. 1985.
- F. Cohen, "Algorithmic Authentication of Identification", Information Age, V7#1 (Jan. 1985), pp 35-41.

Invited Papers and Keynotes with Published Papers:

- F. Cohen, "The Future of Digital Forensics" 2012-09-21. 1st Chinese Conference on Digital Forensics, Keynote Address and Paper.
- F. Cohen, "What Makes Critical Infrastructures Critical?", International Journal of Critical Infrastructure Protection(2010), doi: 10.1016/j.ijcip.2010.06.002.
- F. Cohen, "The Smarter Grid", IEEE Security and Privacy On the Horizon, 2010, V8#1, January/February, 2010.
- F. Cohen, "Toward a Science of Digital Forensic Evidence Examination", IFIP TC11.8 International Conference on Digital Forensics", Hong Kong, China, Jan 4, 2010 (Keynote), Published in Advances in Digital Forensics VI, pp17-36, Springer, ISBN#3-642-15505-7, 2010.
- F. Cohen, "The past and future history of computer viruses", EICAR annual conference, Berlin, Germany, May 11-12, 2009.
- F. Cohen, "30 Lies About Secure Electronic Commerce: The Truth Exposed", Institute for International Research Electronic Commerce Conference, Feb. 1999.
- F. Cohen, Cynthia Phillips, Laura Painton Swiler, Timothy Gaylor, Patricia Leary, Fran Rupley, Richard Isler, and Eli Dart "A Preliminary Classification Scheme for Information System Threats, Attacks, and Defenses; A Cause and Effect Model; and Some Analysis Based on That Model", Encyclopedia of Computer Science, 1999.
- F. Cohen, "National Info-Sec Technical Baseline Intrusion Detection and Response" National InfoSec Research Council, Dec, 1996. (also appearing above in Computers and Security, 1997).
- F. Cohen, "A Note on Distributed Coordinated Attacks", 4th Computer Misuse and Anomaly Detection Workshop, Monterey, 1996 (also appearing above in Computers and Security, 1996).
- F. Cohen, "The Internet, ..., and Information Security", Computer Society of South Africa, 7th Annual Conference, August, 1995, South Africa.
- F. Cohen, "The Internet, Corporate Networks, and Firewalls", Computer Society of South Africa, 7th Annual Conference, August, 1995, South Africa.
- F. Cohen, "Information Assurance", IFIP TC-11 World Congress, May, 1995, Cape Town, South Africa.

- F. Cohen, "Information Warfare Considerations", Norwegian Academy of Sciences, September, 1993.
- F. Cohen, "Computer Viruses", (one chapter in "The Computer Security Reference Book", Butterworth/Heinemann, Oxford, England, 2004.
- F. Cohen, "Fault Tolerant Software for Computer Virus Defense", November, 1991.
- F. Cohen, "Some Applications of Benevolent Viruses in Networked Computing Environments", `DPMA, IEEE, ACM Computer Virus and Security Conference', March 1993
- F. Cohen and S. Mishra, "Some Initial Results From the QUT Virus Research Network", `The Virus Bulletin Conference', Edinburgh, Scotland, July, 1992 (keynote).
- F. Cohen, "Computer Viruses", (one chapter in "The Computer Security Reference Book" Butterworth/Heinemann (1992), Oxford, England
- F. Cohen, "Current Trends in Computer Viruses", Invited Paper, International Symposium on Information Security, Oct. 17-18, 1991, Tokyo, Japan
- F. Cohen, "Current Best Practice Against Computer Viruses", Invited Paper, 1991, 25th IEEE International Carnahan Conference on Security Technology, Oct. 1-3, 1991, Taiwan ROC.
- F. Cohen, "Exploiting Defense-In-Depth Against Computer Viruses", Invited Paper, The Oxbridge Sessions, Sept. 3-5, 1991, The Netherlands.
- F. Cohen, "Computers Under Attack" (one paper), ACM/Addison Wesley (1990)
- F. Cohen, "A Summary of Results on Computer Viruses and Defenses", Invited Paper, 1990 NIST/DOD Conference on Computer Security.
- F. Cohen, "Integrity Maintenance in Untrusted Computing Environments", Invited Paper, IBC Computer Virus Conference, London, 1990.
- F. Cohen, "Information Systems as a Competitive Weapon", Keynote Address, Utah State School of Business, Annual Computer Conference, March 1-2, 1990.
- F. Cohen, "Recent Advances in Integrity Maintenance in Untrusted Systems", Invited Paper, The Netherlands Computer Security Seminar, April 10-12, 1990.
- F. Cohen, "A Note on the use of Pattern Matching in Computer Virus Detection", Invited Paper, Computer Security Conference, London, England, Oct 11-13, 1989, also appearing in DPMA, IEEE, ACM Computer Virus Clinic, 1990.
- F. Cohen, "Computer Viruses Attacks and Defensive Measures", London Corporate Computer Security Conference Keynote Address, London, England, Feb. 14, 1989.
- F. Cohen, "Current Trends in Computer Virus Research", 2nd Annual Invited Symp. on Computer Viruses Keynote Address, Oct. 10, 1988. New York, NY
- F. Cohen, "Recovery Techniques in Computer Virus Attack", Invited Paper, Invitational Conference on Computer Viruses, 1988.

Peer Reviewed Conference and Other Papers:

- F. Cohen, "A Tale of Two Traces Archives, Diplomatics, and Digital Forensic", IFIP Tenth annual IFIP WG 11.9 International Conference on Digital Forensics, 2015-01-26-8, also to be published as a chapter in in "Advances in Digital Forensics X".
- F. Cohen, "As the consequences rise, where is the risk management?", EDPACS: The EDP Audit, Control, and Security Newsletter, V41# 4, (2013), DOI:10.1080/07366981.2013.775779, reprint from analyst report.
- F. Cohen, "The Bottom Ten List—Information Security Worst Practices", EDPACS: The EDP Audit, Control, and Security Newsletter, V41#1, (2012), DOI:10.1080/07366981003634460, reprint from analyst report.
- F. Cohen, "F. Cohen, "The Physics of Digital Information Part 2", JDFSL v7#1", July, 2012 (editorial column)
- F. Cohen, "Forensic Methods for Detecting Insider Turning Behaviors", IEEE Workshop on Research for Insider Threat, 2012-05-25, with the IEEE Oakland Conference, IEEE Computer Society Press.
- F. Cohen, "Update on the State of the Science of Digital Evidence Examination", Conference on Digital Forensics, Security, and Law, May 29-31, 2012 pending publication.

- F. Cohen, "Consistency under deception implies integrity", ICSJWG Quarterly Newsletter. Republished from 2011-09 Short Analyst Reports.
- F. Cohen, "F. Cohen, "The Physics of Digital Information", Journal of Digital Forensics, Security, and Law, V6#3, October, 2011 (editorial column)
- F. Cohen, "Progress and evolution of critical infrastructure protection over the last 10 years?", The CIP Report, Center for Infrastructure Protection and Homeland Security, V10#3, 2011-09, Republished from 2011-08 Short Analyst Reports.
- F. Cohen, "Putting the Science in Digital Forensics" Journal of Digital Forensics, Security, and Law, V6#1, July, 2011 (editorial column)
- F. Cohen, "How Do We Measure Security?", Insight, V14#2, 2011-07, pp 30-32, International Council on Systems Engineering.
- F. Cohen, "Change your passwords how often?", EDPACS 44(4), April, 2010. (Reprinted from Analyst Newsletter)
- F. Cohen, J. Lowrie, C. Preston, "The State of the Science of Digital Evidence Examination", IFIP Seventh annual IFIP WG 11.9 International Conference on Digital Forensics, 2011/01/30, also published as a chapter in in "Advances in Digital Forensics VII".
- F. Cohen, "Digital Forensic Evidence Examination The State of the Science and Where to Go From Here", NeFX Workshop, Sep 14, 2010.
- F. Cohen, "Fonts for Forensics", IEEE SADFE (in conjunction with the IEEE Oakland Conference), 2010-05-19, Oakland, CA.
- F. Cohen, "The Bottom Ten List Information Security Worst Practices", EDPACS 41(1), January, 2010. (Reprinted from Analyst Newsletter)
- F. Cohen, "Attribution of messages to sources in digital forensics cases", HICSS-43, Jan 7, 2010.
- F. Cohen, "Analysis of redundant traces for consistency", IEEE International Workshop on Computer Forensics in Software Engineering (CFSE 09), Seattle, Washington, USA, July 20-24, 2009
- F. Cohen, "Two models of digital forensic examination", IEEE SADFE (in conjunction with the IEEE Oakland Conference), 2009-05-21, Oakland, CA
- F. Cohen, "Issues and a case study in bulk email forensics", Fifth annual IFIP WG 11.9 International Conference on Digital Forensics, 2009/01/27, published as "Bulk Email Forensics" in the conference publication.
- F. Cohen and T. Johnson, "A Ph.D. Curriculum for Digital Forensics", HICSS-42, Jan 7, 2009.
- F. Cohen, "Information Assurance Architectural Models", HICSS-42 Product and Process Assurance Symposium Position Paper, Jan 5, 2009,
- F. Cohen, "Social tension and separation of duties", EDPACS 38(5) (2009). (Reprinted from Analyst Newsletter).
- F. Cohen, "Control Requirements for Control Systems... Matching Surety to Risk", EDPACS, 2008
- F. Cohen, "Making Compliance Simple Not", EDPACS, March 2008, V37#3. (Reprinted from Analyst Newsletter)
- F. Cohen and C. Preston, "A Method for Recovering Data From Failing Floppy Disks with a Practical Example", Fourth annual IFIP WG 11.9 International Conference on Digital Forensics, 2008/01/27 to 30. Published in "Advances in Digital Forensics IV", Springer, ISBN 978-0-387-84926-3, pp29-42, 2008.
- F. Cohen, "Fault Modeling and Root Cause Analysis for Information Security Governance", Computers and Security, 2007.
- Cohen, "A Note on Detecting Tampering with Audit Trails", 1995. Available at http://all.net/books/audit/audmod.html
- F. Cohen and D. Koike, "Misleading attackers with deception", Information Assurance Workshop, 2004. Proceedings from the Fifth Annual IEEE SMCPublication Date: 10-11 June 2004: pp. 30- 37 F. Cohen, "Airbag Inflator Inspection System", LumenX Corporation, November, 1994.
- F. Cohen, R. Knecht, C. Preston, et. al., "Planning Considerations for Defensive Information Warfare Information Assurance", Contract DCA 100-90-C-0058 T.O. 90-SAIC-019, November, 1993.

- F. Cohen, "Threats and Defenses for WCCS", US Air Force, Wing Command and Control System, August, 1993.
- F. Cohen, "Information Warfare Considerations", National Academy of Sciences National Research Council, September, 1993.
- F. Cohen, "A Case for Benevolent Viruses" DPMA, IEEE, ACM Computer Virus and Security Conference, March 1992
- F. Cohen, "Current Best Practice Against Computer Viruses with Examples from the DOS Operating System", DPMA, IEEE, ACM Computer Virus and Security Conference, March 1992
- F. Cohen, "A Roving Emulator", Conference on Modeling and Simulation, April, 1987.
- F. Cohen, "Information Protection", Curriculum Module for the graduate degree in Software Engineering, The Software Engineering Institute, June, 1986, also appearing in ACM SIGSAC in abbreviated form.
- F. Cohen, "A Complexity Based Integrity Maintenance Mechanism", Conference on Information Sciences and Systems, Princeton University, March 1986.
- F. Cohen, "Recent Results in Computer Viruses", Conference on Information Sciences and Systems, Johns Hopkins University, March 1985.
- F. Cohen, "The HAD Cryptosystem", IACR Crypto84 rump session, Aug. 1984.
- F. Cohen, "Computer Security Methods and Systems", Conference on Information Sciences and Systems, Princeton University, March 1984.
- F. Cohen, "Learning Networks for Database Access", Yale Conference on Adaptive Systems Theory, New Haven, CT, June, 1983.
- M.A. Breuer, F. Cohen, and A.A. Ismaeel, "Roving Emulation", Built-In Self-Test Conference, March 1983.
- F. Cohen, "The Delta-Net Model of Computation", Conference on Information Sciences and Systems, Johns Hopkins University, March 1983.
- F. Cohen, "The U.S.C. Roving Emulator", U.S.C. DISC Report #82-8, Dept of Electrical Engineering, University Park, LA, Ca. 90089-0781, Dec. 1982.
- M.A. Breuer, F. Cohen, A.A. Ismaeel, "Roving Emulation as Applied to a (255,223) RS-encoder System", U.S.C. DISC Report #82-6, Dec. 1982.

Angel to Exit Articles

2025

- 2025-09: GAI is learning to be worse and worse
- 2025-08: Wildly successful failures
- 2025-07: Quality counts, and so does sincerity, at a cost
- 2025-06: Top 10 Hints for Your Next Pitch
- 2025-05: Inflection Points
- 2025-04: An excellent look at the Due Diligence process
- 2025-03: The Wild Ride
- 2025-02: How to use AI to enhance your business
- 2025-01: LLMs, huh, what are they good for?

2024

- 2024-12: Why we are not investing in startups till at least March of 2025
- 2024-11: Better, faster, cheaper decisions and justification
- 2024-10: Our new investment process
- 2024-09: Back to Influence
- 2024-08: Vacation 2024-07: Evaluate my pitch deck
- 2024-06: The Hierarchy
- 2024-05: After the Pandemic
- 2024-04: Don't Judge a Book by its Cover
- 2024-03: Social Media Marketing and Sales Strategy
- 2024-02: Cognitive Architecture for Companies
- 2024-01: A brand new day

2023 2023-12: Running out of time 2023-11: The importance of having fun 2023-10: Exits and Entries 2023-09: The ART Of the deal 2023-08: Starting up quickly 2023-07: Another Al Article - or not! 2023-06: How to send and respond to email advertising 2023-05: What should be in your pitch deck? 2023-04: Risk Ratings 2023-03B: Silicon Valley Bank's crash and knock-on effects 2023-03: The Business Risks of Al 2023-02: An article by ChatGPT 2023-01: CEOs for Startups 2022 2022-12: Turn your radio on 2022-11: Where did all the funding go... Long time passing 2022-10: The first 3 things out of your mouth 2022-09: How do you control your go to market program? 2022-08: Strategic selection of promotions 2022-07: How do how VALS, Maslow, and memes work in marketing 2022-06: Selling to investors - Investor Push 2022-05: What is the TAM? 2022-04: Executive Compensation 2022-03: Stock states: Authorized, Allocated, and Issued 2022-02: Measuring Environment, Society, and Governance (ESG) 2022-01: A Tough Week 2021 2021-12: Unit economics and sales and delivery projections 2021-11: How to do financial projections for a startup 2021-10: Fame is not Knowledge 2021-09: Frauds 2021-08: The Enterprise Brain 2021-07: Projections (That WAG won't hunt) 2021-06: San Francisco, 2021 2021-05: Why you need a diligence report... 2021-04: What came first - The Chicken or the Egg? 2021-03: Emerging from the Pandemic? 2021-02: Cash Flow Simulation vs. Spreadsheets 2021-01: How to make complex multi-factor apples to oranges decisions (for example about investments) 2020 2020-12: Look and Feel 2020-11: The Portfolio View 2020-10: It's harder than you think 2020-09: The Enterprise Control System 2020-08: Closing Sales is Simple

2020-07: The summer of disscontent

2020-03: How does this dilution thing work exactly?

2020-05: How NOT to approach funding sources

2020-06: How NOT to run a Zoom (or other online) meeting

2020-02: Classes of Stock and Preferences

2020-01: I'm not dragging you through a sale!
2019-12: The 3 things you need to do to get funded 2019-11: You invested how much based on what plan?!?! 2019-10: I'll use social media to grow - at almost no cost! 2019-09: Measuring your company to help grow it 2019-08: Cash Flow Break Even When? 2019-07: Dealing with professionals 2019-06: How many hours are in the day? 2019-05: On the edge of the hockey stick
2019-04: I need to invest in something! 2019-03: Sex and the successful entrepreneur
2019-02: Following up
2019-01: Lessons learned 2018? 2018
2018-12: Who's the hero? 2018-11: Boot Camp
2018-10: The Definition of a Startup
2018-09: Increase Customer Engagement 2018-08: Exits
2018-07: Every entity is not a Delaware C Corporation
2018-06: Why didn't you come to me sooner? 2018-04: Sell your way out of it
2018-03: Matching funds and burning out the risk in a round 2018-02: Over-reacting
2018-01: Autopsies from 2017
2017 2017-12: The meeting a.k.a. the ambush
2017-11: The pace of progress 2017-10: The cost of capital
2017-09: Fail Fast - Please!
2017-08: Holding Companies 2017-07: Equitable distribution
2017-06: Advisory Boards - Fair Compensation?
2017-05: Paperwork 2017-04: Impatience
2017-03: The domino effect 2017-02: Exaggeration vs approximation
2017-01: Focus
2016 2016-12: Reading and writing carefully
2016-11: But I am right! 2016-10: "No!"
2016-09: "Yes!"
2016-08: Defense 2016-07: Fiercely Independent
2016-06: The Buzz-i-ness 2016-05: Camero felony stop
2016-04: The scales of time
2016-03: Back of the envelope
2016-02: Angel to Exit

TechVision Research Reports:

- F. Cohen, How do we accelerate innovation in a culture of risk aversion", 2016-12
- F. Cohen, "The Future of Information Sharing and Cybersecurity", 2016-08
- F. Cohen, "Enterprise Information Protection", 2016-03.

Burton Group Reports:

- F. Cohen, "Outsourcing, Offshoring, and Security: What's the Difference?" 28 Jun 2006
- F. Cohen, "IT Risk Management and COSO" 24 May 2006
- F. Cohen, "Defending Against the Evil Insider" 16 Nov 2005
- F. Cohen, "Raising the Bar: Solving Medium-Risk Problems with Medium-Surety Solutions" 27 Sep 2005
- P. Schacter and F. Cohen, "Enterprise Strategies for Defending Against Spyware" 23 Aug 2005
- F. Cohen, "Security Metrics: Horses for Courses" 24 Jun 2005
- F. Cohen, "Security Governance for the Enterprise" 31 Mar 2005
- F. Cohen, "Business Continuity Planning for IT" 24 Mar 2005
- D. Blum and F. Cohen, "A Systematic, Comprehensive Approach to Information Security" 24 Feb 2005
- F. Cohen, "Security Awareness, Training, and Education Programs for the Enterprise" 17 Jan 2005
- F. Cohen, "Change Management for the Enterprise" 17 Jan 2005
- D. Blum and F. Cohen, "Concepts and Definitions" 17 Jan 2005
- F. Cohen, "Database Security: Protecting the Critical Content of the Enterprise" 28 Oct 2004
- F. Cohen, "Building Secure Applications: How secure do you want to be today?" 09 Sep 2004
- F. Cohen, "Risk Aggregation: The Unintended Consequence", 27 Apr 2004
- F. Cohen, "Auditing and Audit Trails", 18 Mar 2004
- F. Cohen, "Patch Management", 2003
- F. Cohen, "The Evolving Role of Firewalls", 2003
- F. Cohen, "Linux Security Features", 2003 (unpublished)
- F. Cohen, "Intrusion Detection and Response Systems", October, 2003
- F. Cohen, "Analysis of Information-Related Threats to Enterprises", 18 Sep 2003
- F. Cohen, "Risk Management: Concepts and Frameworks", 18 July, 2003
- F. Cohen, "Policy-Based Security and Enterprise Policy Management", 9 Dec 2003

Special Cyber Terrorism Studies:

The Provisional Irish Republican Army - 2000

The Animal Liberation Front (ALF) - 2000

Revolutionary Armed Forces of Colombia (FARC) - 2000

National Liberation Army (ELN)--Colombia - 2000

Issues in Cyber-Terrorism – 2000

Short Analyst Reports and Other Substantial Collections:

2025

- 2025-09 Evaluating Generative AI (GAI) for (my) utility
- 2025-08 The Dam Seems to be Breaking
- 2025-07 When should we teach what about cybersecurity to whom?
- 2025-06 RSac Security Vomit
- 2025-05C Another pathetic Google report on my accounts
- 2025-05B Some questions you should be asking yourself
- 2025-05 So-called secure computing
- 2025-04-29 Pitchforce/RSA Keynote Article based on the keynote
- 2025-04 A note on the Javascript confinement problem
- 2025-03-C Gravity escapes black holes
- 2025-03-B The End of Expertise
- 2025-03 How to destroy security by 'enhancing' it
- 2025-02 The Addiction Machine

2025-01 - Build Backups Better 2024 2024-12 - Simple Stupid Secure Short-term Servers 2024-11 - How to steal a billion IDs and Passwords and how to prevent it - Trust Architecture 2024-10 - So many things - so little time 2024-09 - Truth, Lies, and AI 2024-08 - Vacation 2024-07-D - Security MUCs it up again 2024-07-C - Watching the Influence War 2024-07-B - They found my email address on the dark web 2024-07 - RSA and Influence Operations 2024-06-D - A few words on causality 2024-06-C - Virtual reality makes it easier to do wrong things 2024-06-B - How bad is the infiltration of false information? 2024-06 - (NP) Social DoS of the Classified World 2024-05 - A different view of the future 2024-04-C - Tracking You 2024-04-B - All.net - Still Unencrypted for Your Protection 2024-04 - The Dimensions of the Problem Space 2024-03 - Multifactor Foul Up 2024-02 - Breaking through the cognitive barrage 2024-01-B - The infiltration threat 2024-01 - The accumulation of consequences over time 2023 2023-12-C - Why is all this crazy stuff globally happening? 2023-12-B - So-called secure provenance 2023-12 - CISO jail time (not really, but...) 2023-11-D - Some comments on the Phish Scale 2023-11-C - Lies, Facts, Truth, and Consequences 2023-11-B - What's going on? (World War is coming) 2023-11 - Silence in the face of evil is complicity 2023-11-A - Why Federated models in AI leak secrets 2023-10 - Asking the right questions 2023-09 - Security theater at the cost of Availability 2023-08 - The do nothing defense 2023-07 - I'm getting bored with the talk of the board 2023-06 - Why does it seem like more attacks are taking place? 2023-05B - Another day, another RSA 2023-05 - Generative AI and the abuse of social media 2023-04B - Why does a 20 year old have access to TS/SCI and what do we do about it? 2023-04 - API Security vs. AUI security 2022-03B - An approach to gun control you will not like, and neither do I 2023-03 - Why has stupid taken over? 2023-02-B - So you're looking for a cyber security board member for your public company... 2023-02 - The Threat Environment - 6 questions 2023-01-13 - Cybersecurity Technology to Practice (workshop slides) 2023-01: CEOs for Startups 2023-01 - Why we cannot trust AI (or most people for that matter) 2022 2022-12B - How long to guess your password? 2022-12 - Crime Pays 2022-11 - From ZT to MT - Clothes for the emperor 2022-10 - The assumption of breach

2022-09 - So many things - so little time

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2022-08B - Freedom of Speech is not a License to Lie
2022-08 - The now all too common MFA exploitation by MFA - confusing the issue
2022-07 - Encrypted is not Secured, and https is even worse
2022-06 - Confidence in code (or AI)
2022-05-B - Fear, Uncertainty, and Doubt vs. Self-Confidence
2022-05 - Gamification and the Metaverse
2022-04 - What happened to the cyberwar?
2022-03 - It's all about the Rubles
2022-02 - Privilege Escalation and Trust
2022-01 - Theorem 0 - I exist (trust me)
2021
2021-12 - Some results in cybersecurity and why they may be interesting
2021-11B - Dem bugs Dem bugs, Dey gonna rise again
2021-11 - When the consequences are disproportionate to the operational acts (e.g., Facebook)
2021-10 - Users simply cannot get it right all the time
2021-09 - There is no "best practice" or "100%" in Cyber Security
2021-08 - Firewalls are alive and well: here's why
2021-07 - Getting around authentication
2021-06L - Cybersecurity From Scratch - Part 11: The Halting Problem
2021-06K - Cybersecurity From Scratch - Part 10: Testing
2021-06C - Security Load Explode!
2021-06J - Cybersecurity From Scratch - Part 9: Into the weeds...
2021-06E - The very real potential for rapidly escalating cyber conflict leading toward ...
2021-06D - 20 Reasons Russia will Never Defeat our All.Net Security
2021-06B - Don't trust Zero Trust - The Whole of Government Approach
2021-06 - Don't trust Zero Trust or so-called Best Practices
2021-05H - Cybersecurity From Scratch - Part 7: Whatever happened to Part 6?
2021-05B - Cyberspace vs. COVID-19 - 7.8 Billion People to Help - And you can help them!
2021-05G - Cybersecurity From Scratch - Part 5: Starting to rock - but for a role!
2021-05F - Cybersecurity From Scratch - Part 4: Impulse engines (a few bursts of energy)
2021-05 - Bad decision-making OR Making bad decisions?
2021-04E - Cybersecurity From Scratch - Part 3: Change happens (quickly and slowly)
2021-04D - Cybersecurity From Scratch - Part 2: First Decisions
2021-04C - Cybersecurity From Scratch - Part 1: The startup
2021-04B - Without an opinion, you're just another person with data.
2021-04 - Stupid Security Screen-sharing - Brought to you by Zoom!
2021-03C - How to defeat any system
2021-03B - Which came first, the chicken or the egg? The egg...
2021-03 - If stupidity was a virtue
2021-02 - B-BOM and SID
2021-01 - The first steps in your cyber security program
2020-12 - Understanding a meta-language of influence
2020-12B - An initial review of election fraud claims
2020-11 - GWiz™ What do we measure and why?
2020-10C - Cyberspace vs. COVID-19 - Re-education
2020-10B - Cyberspace vs. COVID-19 - COVID is no excuse for poor service (i.e., experience)
2020-10 - Will you still need me?
2020-09C - Exit plan
2020-09B - Why not vote for Trump?
2020-09 - Expressing my appreciation
2020-08 - Electing not to secure
2020-07B - Cyberspace v. Covid-19 - Back to School?
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2020-07 - Social media background checks 2020-06 - Cyberspace vs. Covid-19 - Propaganda 2020-05-CDC - Whitehouse supressed CDC guidance on opening America 2020-05B - Cyberspace vs. COVID-19 - American Cowardice 2020-05 - There's a hole in my bucket... 2020-04B - Cyberspace vs. COVID-19 - The Farce Awakens 2020-04 - Keeping your cyber security program exciting! 2020-03F - Cyberspace vs. COVID-19 - Cyberspace takes the offensive 2020-03E - How to save the economy and the people - stimulus that actually works 2020-03D - Live Online Remote - Work from home - the 37 things you absolutely must know 2020-03C - Cyberspace vs. the COVID-19 - UPDATED 2020-03-14 2020-03C - Cyberspace vs. the COVID-19 - Shelter in place - out of an ?abundance? of caution 2020-03B - Cyberspace vs. the COVID-19 - Campaigning with COVID - the CyberWar of 2020 2020-03 - In anticipation of litigation 2020-02 - Law Journal interview with Fred Cohen 2020-02B - Cyberspace vs. the Coronavirus - saving hundreds of millions of lives 2020-02 - Cyber Security Stories - Episode 1 2020-02 - The Evidence Please! 2020-01 - I've been Hacked! What do I do? 2019 2019-12 - Three Little Words 2019-11 - Safety better win! 2019-10 - How to not be fired in 18 months 2019-09-26 - Whistleblower Report Released - Audio reading 2019-09 - Programs we should not allow 2019-08 - Powerful Security 2019-07 - Claims v. Reality in Cyber Security Sales 2019-06 - Countering Russian propaganda in social media - one person at a time 2019-05 - Security Inventory 2019-04-18 - The Meuller Report 2019-04 - Escalating and de-escalating incident response 2019-03B - What's new at the RSA? Nothing (almost) 2019-03 - Deprecating the use of social media by terrorist group for recruiting and grooming 2019-02 - Dealing with deep fakes 2019-01 - Every 15-20 years I do an update 2018 2018-12 - Cyber Security Intelligence 2018-11 - It's a race, and I just said "Go!" 2018-10 - The cyber security brain 2018-09 - Duty to Protect 2018-08 - The story behind the story behind the story of Aurora 2018-07B - White Paper: The Pathfinder Approach to Cyber Security 2018-07 - The basis for trust 2018-06 - It's how you use it that counts - and GDPR 2018-05 - 50 Ways to defeat your blockchain / distributed ledger / cryptocurrency system 2018-04 - Countering the "natural" spread of deceptive social media memes 2018-03 - Let's all go to 10-factor 2018-02 - How cyber-security punishes good behavior 2018-01 - While you were distracted 2017 2017-12 - Two wrongs don't make a right - but 3 lefts do! 2017-11 - If porn and drugs cannot help we are all in big trouble

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2017-10 - Supply chain and change control - how to get your Trojan to millions without viruses
2017-09 - At some point you just have to stand for something
2017-08 - Strategy v. Tactics - Cybersecurity is still tactical response focused
2017-07 - Provide for the Common Defense
2017-06-12: Kennedy Space Center: Cyber Warfare - the BIG picture
2017-06 - Change your password - Doe Si Done!
2017-05 - Why do they think they can just break the law?
2017-04 - Analysis or Advertising?
2017-03 - Defeating propaganda in the public media
2017-02 - The end of biometrics
2017-01 - A year of living well
2016
2016-12 - Not Pearl Harbor - the boiling frog
2016-11 - Information Sharing - The end of cybersecurity?
2016-10B: CyberWar Intensification
2016-10: CyberSpace - The Final ...
2016-09: If I made disk drives
2016-08-29: HTCIA Keynote: FBI v. Apple - The Equities Issue (Slides)
2016-08C: Asking too much - a lie for a lie
2016-08B: Crimes against the environment
2016-08: Provenance
2016-07: How deep is the problem?
2016-06B: I stand corrected - security can still get stupider
2016-06: Enough with the technical security stuff
2016-05: Stupid security getting stupider still - and falling into denial
2016-04: Misimpressions by decision-makers (with update at the end)
2016-03B: RSA - What's new in cybersecurity?
2016-03: Equities: FBI v. Apple
2016-02B: How secure is your data center and how can you tell?
2016-02: How long does it take before people act responsibly? Hint: Forever!
2016-01: Alternatives to encryption for securing open channels
2015
2015-12: Countering mass propaganda and surveillance in the "war on terrorism"
2015-11: We're missing the boat on legal controls over network traffic
2015-10: Send me the Snowden docs
2015-09: Why can't we make any of the systems we use secure from remote attack?
2015-08: Who's to blame?
2015-07: The greatest strategic blunder of all time?
2015-06: Reducing the effects of malicious insiders non-technologically
2015-05: Iran(t) on merchantability for software
2015-04: Fishing and phishing
2015-03 B: Error-induced misoperation - rowhammer
2015-03 Temporal microzones and end-user workstations
2015-02 Input checking
2015-01 The year of the Trojans (and their unintended side effects)
2014-12 Stupid security getting even stupider
2014-11-B Eat your own dog food deal about big data loss (actually theft)?
2014-10 Cyber (whatever that is) insurance yet again?
2014-09 2-factor this into your thinking
2014-08-B A touch of the Ebola
2014-08 Aurora and why it doesn't really matter
2014-07 Encrypt it all!!!
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2014-06 Is it secure?
2014-05 May Day - attack mechanisms revisited - were you surprised by the NSA's activities?
2014-04 The RSA: Science Fiction and Humor
2014-03-B The Snowden virus - disrupting the secret world by exploiting their policies
2014-03 The four tactical situations of cyber conflict
2014-02 Countering hardware storage device Trojans
2014-01-B After the Red Team
2014-01 Why we need better reporters to solve our security problems
2013
2013-12 Return of the telnet return
2013-11-B Transparency - a different protection objective
2013-11 Demystifying control architecture
2013-10-B The "big deal" approach to risk management
2013-10 Trust and worthiness
2013-09 The surveillance society: pros, cons, alternatives, and my view.
2013-08 50 Ways to respond to "Computer Repair..."
2013-08 Three words you should never use in security and risk management
2013-07-B How to justify (security) metrics and what to measure
2013-07 Mobility and industrial control systems
2013-06 Separation of Duties and RFPs
2013-05-B The harder problems
2013-05 Write lock the past, access control the present, anticipate the future
2013-04-B Actionable metrics (Guest Editor)
2013-04 Managing Oops
2013-03-C Limiting Insider Effects Through Micro-Zoning
2013-03-B Welcome to the Information Age - a 1-page primer
2013-03 Security Heroes
2013-02-B Stupid Security Winner for 2012
2013-02 Thinking more clearly
2013-01 Raising all boats - by improving the average
2012
2012-12 Enterprise Security Architecture Options and Basis
2012-12 Ten Bad Assumptions
2012-11 The Design Basis Threat
2012-10 Changing the leverage
2012-10 Industrial Control System Security Decisions and Architecture
2012-09 Eventually, you are going to make a mistake
2012-08 As the consequences rise, where is the risk management?
2012-07-01B The Facebook debacle and what it says about the other providers
2012-07-01 - Open CyberWar - Early Release
2012-06-01 - Question everything
2012-05-01 - The threat reduction approach - Point - Counterpoint
2012-04-01 - The insider turned bad
2012-03-01 - Three emerging technologies
2012-02-01 - Ethics in security research
2012-01-31 - Influence Operations
2012-01-01 - The security squeeze
2011
2011-12-01 - Can we attribute authorship or human characteristics by automated inspection?
2011-11-03 - Saving SMBs from data leakage
2011-11-01 - Webification and Authentication Insanity
2011-10-01 - Consistency Under Deception Implies Integrity - ICSJWG version
2011-10-01 - Security vs. Convenience - The Cloud - Mobile Devices - and Synchronization
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- 2011-09-11 CIP version of "Progress and evolution of critical infrastructure protection over the last 10 years?"
 2011-09 Consistency under deception implies integrity
 2011-08 Progress and evolution of critical infrastructure protection over the last 10 years?
 2011-07 The structure of risk and reward
- 2011-06 Security Metrics A Matter of Type
- 2011-05 The "R" word
- 2011-04 Change your passwords how often?
- 2011-03 Any is not All
- 2011-02 Why are we so concerned about governments getting our data?
- 2011-01b The Bottom Ten List Information Security Worst Practices Getting Even Worse
- 2011-01 Risk aggregation again and again and again...

2010

- 2010-12b Code book cryptography may be nearly dead
- 2010-12 Changes to the Federal Rules of Evidence Rule 26
- 2010-11 How do we measure "security"?
- 2010-10 Moving target defenses with and without cover deception
- 2010-09 User Platform Selection Revisited
- 2010-08 The DMCA Still Restricts Forensics
- 2010-07 Mediated Investigative Electronic Discovery
- 2010-06 The difference between responsibility and control
- 2010-05 The Virtualization Solution
- 2010-04 Attacks on information systems a bedtime story
- 2010-03 The attacker only has to be right once another information protection fallacy
- 2010-02b Another ridiculous cyber warfare game to scare deciders into action
- 2010-02 Developing the science of information protection
- 2010-01 The Bottom Ten List Information Security Worst Practices

2009

- 2009-12-B COFEE and the state of digital forensics
- 2009-12 Using the right words
- 2009-11 Passwords again why we can't leave well enough alone
- 2009-10 Partitioning and virtualization a strategic approach
- 2009-09 Forensics: The limits of my tools, my techniques, and myself
- 2009-08 Virtualization and the cloud Risks and Rewards
- 2009-07 The speed of light, it's easy to forge, email is always fast, and more
- 2009-06 Security Decisions: Deception When and where to use it
- 2009-05-B Culture clash: Cloud computing and digital forensics
- 2009-05 Protection testing: What protection testing should we do?
- 2009-04-B Proposed Cyber-Security Law: What's the problem?
- 2009-04 Risk management: There are no black swans
- 2009-03 How spam vigilantes are wrecking email and encourage violations of law
- 2009-02-B Digital forensics must come of age
- 2009-02 A structure for addressing digital forensics
- 2009-01 Change management: How should I handle it?

2008

- 2008-12-B Short Note: Twittering away your privacy
- 2008-12 Digital Forensic Evidence: A Wave Starting to Break
- 2008-11 Security Decision: Zoning your network
- 2008-10 Social tension and separation of duties
- 2008-09 Default deny is best practice? Not anymore!
- 2008-08 Control architecture: Access controls
- 2008-07 Fault modeling, the scientific method, and thinking out of the box
- 2008-06 Inventory Revisited How to reduce security losses by 70%?

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2008-05 - Control Requirements for Control Systems... Matching Surety to Risk
2008-04 - The Botnets have come - The Botnets have come...
2008-03 - Enterprise Information Protection - It's About the Business
2008-02 - The Digital Forensics World
2008-02 - Who Should Do Your Digital Forensics?
2008-01 - Unintended Consequences
2008-01 - Accidental Security
2007
2007-12 - Security, justice, and the future
2007-12 - Security End-of-year
2007-11 - Security by Psychology
2007-11 - Covert Awareness
2007-10 - Making compliance simple - not
2007-10 - Measuring Compliance
2007-09 - Identity Assurance and Risk Aggregation
2007-09 - Identity Assurance
2007-08 - The ethical challenge
2007-08 - Conflicts of Interest
2007-07 - Security Decision Support
2007-07 - Making Better Security Decisions
2007-06 - User platform selection
2007-06 - Which User Platform
2007-05 - Risk Management
2007-05 - Managing Risks
2007-04 - Security Ethics and the Professional Societies
2007-04 - Information Content Inventory
2007-03 - Emerging Risk Management Space
2007-03 - Sensible Security - You Wouldn't?
2007-02 - Emerging Market Presence
2007-02 - Measuring Security
2007-01 - Market Maturity and Adoption Analysis Summary
2007-01 - Closing the Gap
2007-00 - Analysis Framework
2006
2006-12 - The Security Schedule
2006-11 - The Holidays Bring the Fraudsters
2006-10 - Physical/Logical Convergence??
2006-09 - How can I Show I am Me in Email?
2006-08 - Service Oriented Architecture Security Elements
2006-07 - The Life Expectancy of Defenses
2006-07 - BONUS ISSUE: The End of the World as we Know it
2006-06 - Why the CISO should work for the CEO - Three Case Studies
2003
July, 2003 - Why?
June, 2003 - Background Checks
May, 2003 - Operations Security for the Rest of Us
April, 2003 - Documenting Security
March, 2003 - Novelty Detection
February, 2003 - Switching Your Infrastructure
January, 2003 - Security Programming
2002
December, 2002 - Back Up a Minute
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November, 2002 - Breaking In - to test security?

October, 2002 - Reworking Your Firewalls

Sepember, 2002 - Deception Rising

August, 2002 - You're in a Bind!

July, 2002 - Is Open Source More or Less Secure?

BOUNS ARTICLE - July, 2002 - Smashed Again by Stupid Security

June, 2002 - Academia's Vital Role in Information Protection

May, 2002 - Terrorism and Cyberspace

April, 2002 - Misimpressions We Need to Extinguish

March, 2002 - Embedded Security

February, 2002 - How to Get Around Your ISP

January, 2002 - The End of the Internet as we Know it

2001

December, 2001 - The World Doesn't Want to be Fixed

November, 2001 - The Deception Defense

October, 2001 - The DMCA

September, 2001 Special Issue - The Balancing Act

September, 2001 - The Best Security Book Ever Written

August, 2001 - Bootable CDs

July, 2001 - A Matter of Power

June, 2001 - The Wireless Revolution

May, 2001 - The New Cyber Gang - A Real Threat Profile

April, 2001 - To Prosecute or Not to Prosecute

March, 2001 - Corporate Security Intelligence

February, 2001 - Testing Your Security by Breaking In - NOT

January, 2001 - Marketing Hyperbole at its Finest

2000

December, 2000 - The Millennium Article - Yet Again! - The Bots are Coming!!! The Bots are Coming!!!

November, 2000 - Why Everything Keeps Failing

October, 2000 - The Threat

September, 2000 - Chipping

August, 2000 - Understanding Viruses Bio-logically

July, 2000 - What does it do behind your back?

June, 2000 - Why Can't We Do DNS Right?

May, 2000 - Eliminating IP Address Forgery - 5 Years Old and Going Strong

April, 2000 - Countering DCAs

March, 2000 - Collaborative Defense

February, 2000 - Worker Monitoring

January, 2000 - Digital Forensics

1999

December, 1999 - Why it was done that way

BONUS ARTICLE - November, 1999 - So Much Evidence... So Little Time

November, 1999 - The Limits of Cryptography

October, 1999 - Security Education in the Information Age

September, 1999 - In Your Face Information Warfare

August, 1999 - What's Happening Out There

July, 1999 - Attack and Defense Strategies

June, 1999 - The Limits of Awareness

May, 1999 - Watching the World

April, 1999 - Simulating Network Security

Bonus Article: Incident at All.Net - 1999 Edition

March, 1999 - The Millisecond Fantasy

February, 1999 - Returning Fire

January, 1999 - Anatomy of a Successful Sophisticated Attack

1998

December, 1998 - Balancing Risk

November, 1998 - The Real Y2K Issue? October, 1998 - Time-Based Security?

September, 1998 - What Should I Report to Whom?

August, 1998 - Third Anniversary Article - The Seedy Side of Security

July, 1998 - How Does a Typical IT Audit Work?

June, 1998 - Technical Protection for the Joint Venture

May, 1998 - Risk Staging

April, 1998 - The Unpredictability Defense

March, 1998 - Red Teaming

February, 1998 - The Management of Fear

January, 1998 - Y2K - Alternative Solutions

1997

December, 1997 - 50 Ways to Defeat Your Intrusion Detection System

November, 1997 - To Outsource or Not to Outsource - That is the Question.

October, 1997 - The Network Security Game

September, 1997 - Change Your Password - Do Si Do

August, 1997 - Penetration Testing?

July, 1997 -

June, 1997 - Relativistic Risk Analysis

May, 1997 - Prevent, Detect, and React

April, 1997 - Would You Like to Play a Game?

March, 1997 - Risk Management or Risk Analysis?

February, 1997 - Network Security as a Control Issue

January, 1997 - Integrity First - Usually

1996

December, 1996 - Where Should We Concentrate Protection?

November, 1996 - How Good Do You Have to Be?

October, 1996 - Why Bother?

Internet Holes

September, 1996 - The SYN Flood

August, 1996 - Internet Incident Response

July, 1996 - Internet Lightning Rods

June, 1996 - UDP Viruses

May, 1996 - Eliminating IP Address Forgery

April, 1996 - Spam

March, 1996 - Bonus: Incident at All.Net

March, 1996 - The Human Element

January, 1996 - Automated Attack and Defense

1995

December, 1995 - 50 Ways to Attack Your World Wide Web Systems

November, 1995 - Network News Transfer Protocol

October, 1995 - The Sendmail Maelstrom

September, 1995 - Packet Fragmentation Attacks

August, 1995 - ICMP

Professional magazine articles:

F. Cohen, "Managing Network Security" Nov. 2002, Breaking In... to test security?

F. Cohen, "Managing Network Security" Oct., 2002 - Reworking Your Firewalls

F. Cohen, "Managing Network Security" Sept, 2002 - Deception Rising

F. Cohen, "Managing Network Security" Aug, 2002 - You're in a Bind!

- F. Cohen, "Managing Network Security" July, 2002 Smashed Again by Stupid Security (appears in Computer Frauds and Security Bulletin)
- F. Cohen, "Managing Network Security" July, 2002 Is Open Source More or Less Secure?
- F. Cohen, "Managing Network Security" June, 2002 Academia's Vital Role in Information Protection
- F. Cohen, "Managing Network Security" May, 2002 Terrorism and Cyberspace
- F. Cohen, "Managing Network Security" April, 2002 Misimpressions We Need to Extinguish
- F. Cohen, "Managing Network Security" March, 2002 Embedded Security
- F. Cohen, "Managing Network Security" February, 2002 How to Get Around Your ISP
- F. Cohen, "Managing Network Security" January, 2002 The End of the Internet as we Know it
- F. Cohen, " 2001: Red Teaming Experiments with Deception Technologies"
- F. Cohen, " 2001: A Framework for Deception"
- F. Cohen, "Managing Network Security The World Doesn't Want to be Fixed", Network Security,
- F. Cohen, "Managing Network Security: The Deception Defense", Network Security, Nov., 2001.
- F. Cohen, "Managing Network Security: The DMCA", Network Security, Oct., 2001.
- F. Cohen, "Managing Network Security: The Best Security Book Ever Written", Network Security,
- F. Cohen, "Managing Network Security: Special Issue The Balancing Act ", Network Security, Sep., 2001.
- F. Cohen, "Managing Network Security: Bootable CDs", Network Security, Aug., 2001.
- F. Cohen, "Managing Network Security: A Matter of Power", Network Security, Jul., 2001.
- F. Cohen. "Managing Network Security: The Wireless Revolution". Network Security. Jun., 2001.
- F. Cohen, "Managing Network Security: The New Cyber Gang A Real Threat Profile ", Network Security, May., 2001.
- F. Cohen, "Managing Network Security: To Prosecute or Not to Prosecute", Network Security, Apr.,
- F. Cohen, "Managing Network Security: Corporate Security Intelligence", Network Security, Mar.,
- F. Cohen, "Managing Network Security: Testing Your Security by Breaking In NOT", Network Security, Feb., 2001.
- F. Cohen, "Managing Network Security: Marketing Hyperbole at its Finest", Network Security, Jan.,
- F. Cohen, "Managing Network Security: The Millennium Article Yet Again! The Bots are Coming!!! The Bots are Coming!!!", Network Security, Dec., 2000.
- F. Cohen, "Managing Network Security: Why Everything Keeps Failing", Network Security, Nov.,
- F. Cohen, "Managing Network Security: The Threat", Network Security, Oct., 2000.
- F. Cohen, "Managing Network Security: Chipping", Network Security, Sep., 2000.
- F. Cohen, "Managing Network Security: Understanding Viruses Bio-logically", Network Security, Aug., 2000.
- F. Cohen, "Managing Network Security: What does it do behind your back?", Network Security, Jul., 2000.
- F. Cohen, "Managing Network Security: Why Can't We Do DNS Right?", Network Security, June, 2000.
- F. Cohen, "Managing Network Security: Eliminating IP Address Forgery 5 Years Old and Going Strong ", Network Security, May, 2000.
- F. Cohen, "Managing Network Security: Countering DCAs", Network Security, Apr., 2000.
- F. Cohen, "Managing Network Security: Collaborative Defense", Network Security, Mar., 2000.
- F. Cohen, "Managing Network Security: Worker Monitoring", Network Security, Feb., 2000. F. Cohen, "Managing Network Security: Digital Forensics", Network Security, Jan., 2000.
- F. Cohen, "Managing Network Security: Why it was done that way", Network Security, Dec., 1999.

- F. Cohen, "So Much Evidence... So Little Time", Information Security Magazine, November. 1999. Special issue with articles by "The 20 Most Influential Figures in Information Security Today."
- F. Cohen, "50 Ways to Defeat Your PKI and Other Cryptosystems", The 50 Ways Series at all.net. (/journal/50/index.html)
- F. Cohen, "50 Ways to Defeat Your Firewall", The 50 Ways Series at all.net. (/journal/50/index.html)
- F. Cohen, "Managing Network Security: The Limits of Cryptography", Network Security, Nov., 1999
- F. Cohen, "Managing Network Security: Security Education in the Information Age", Network Security, Oct., 1999.
- F. Cohen, "Managing Network Security: In Your Face Information Warfare", Network Security, Sep., 1999.
- F. Cohen, "Managing Network Security: What's Happening Out There", Network Security, Aug., 1999.
- F. Cohen, "Managing Network Security: Attack and Defense Strategies", Network Security, July, 1999.
- F. Cohen, "Managing Network Security: The Limits of Awareness", Network Security, June, 1999.
- F. Cohen, "Managing Network Security: Watching the World", Network Security, May, 1999.
- F. Cohen, "Managing Network Security: Simulating Network Security ", Network Security, Apr., 1999.
- F. Cohen, "Managing Network Security: The Millisecond Fantasy", Network Security, Mar., 1999.
- F. Cohen, Eli Dart "DARE: Distributed Analysis and REsponse", SANS conference, San Diego, 1999.
- F. Cohen, "Managing Network Security: Returning Fire", Network Security, Feb., 1999.
- F. Cohen, "Managing Network Security: Anatomy of a Successful Sophisticated Attack", Network Security, Jan., 1999.
- F. Cohen, "Managing Network Security: Balancing Risk", Network Security, Dec., 1998.
- F. Cohen, "Managing Network Security: The Real Y2K Issue?", Network Security, Nov., 1998.
- F. Cohen, "Managing Network Security: Time-Based Security?", Network Security, Oct., 1998.
- F. Cohen, "Managing Network Security: What Should I Report to Whom?", Network Security, Sep., 1998.
- F. Cohen, "Managing Network Security: Third Anniversary Article The Seedy Side of Security", Network Security, Aug., 1998.
- F. Cohen, "Managing Network Security: How Does a Typical IT Audit Work?", Network Security, Jul., 1998.
- F. Cohen, "Managing Network Security: Technical Protection for the Joint Venture", Network Security, Jun., 1998.
- F. Cohen, "Managing Network Security: Risk Staging", Network Security, May., 1998.
- F. Cohen, "Managing Network Security: The Unpredictability Defense", Network Security, Apr., 1998.
- F. Cohen, "Managing Network Security: Red Teaming", Network Security, Mar., 1998.
- F. Cohen, "Managing Network Security: The Management of Fear", Network Security, Feb., 1998.
- F. Cohen, "Managing Network Security: Y2K Alternative Solutions", Network Security, Jan., 1998.
- F. Cohen, "Managing Network Security: 50 Ways to Defeat Your Intrusion Detection System", Network Security, Dec., 1997.
- F. Cohen, "Managing Network Security: To Outsource or Not to Outsource That is the Question.", Network Security, Nov., 1997.
- F. Cohen, "Managing Network Security: The Network Security Game", Network Security, Oct., 1997.
- F. Cohen, "Managing Network Security: Change Your Password Doe See Doe", Network Security, Sep., 1997.
- F. Cohen, "Managing Network Security: Penetration Testing?", Network Security, Aug., 1997.
- F. Cohen, "Managing Network Security: Relativistic Risk Analysis", Network Security, Jun., 1997.

- F. Cohen, "Managing Network Security: Prevent, Detect, and React", Network Security, May., 1997.
- F. Cohen, "Managing Network Security: Would you like to play a game?", Network Security, Apr., 1997.
- F. Cohen, "Protection Issues in ASCII Red Based on a Limited Unclassified Briefing" (C).
- F. Cohen, "Managing Network Security: Risk Management or Risk Analysis?", Network Security, Mar., 1997.
- F. Cohen, "Managing Network Security: Network Security as a Control Issue?", Network Security, Feb., 1997.
- F. Cohen, "Managing Network Security: Integrity First Usually", Network Security, Jan., 1997.
- F. Cohen, S. Cooper, et. al. "Intrusion Detection and Response", National InfoSec Technical Baseline, October, 1996. (Also appearing in SecureNet 97, March, 1997 and Computers and Security as cited above)
- F. Cohen, "Managing Network Security: Where Should We Concentrate Protection?", Network Security, Dec., 1996.
- F. Cohen, "Managing Network Security: How Good Do You Have to Be?", Network Security, Nov., 1996.
- F. Cohen, "Managing Network Security: Why Bother?", Network Security, Oct., 1996.
- F. Cohen, "Internet Holes The SYN Flood", Network Security, Sep., 1996.
- F. Cohen, "Internet Holes Internet Incident Response", Network Security, Aug., 1996.
- F. Cohen, "Internet Holes Internet Lightning Rods", Network Security, July, 1996.
- F. Cohen, "Internet Holes UDP Viruses", Network Security, June, 1996.
- F. Cohen, "Internet Holes Eliminating IP Address Forgery", Network Security, May, 1996.
- F. Cohen, "Internet Holes Spam", Network Security, April , 1996.
- F. Cohen, "Internet Holes The Human Element", Network Security, March, 1996.
- F. Cohen, "Internet Holes Automated Attack and Defense", Network Security, February, 1996.
- F. Cohen, "Internet Holes 50 Ways to Attack Your World Wide Web Systems", Network Security, December, 1995 January, 1996.
- F. Cohen, "Internet Holes Network News Transfer Protocol", Network Security. November. 1995.
- F. Cohen, "Internet Holes Sendmail Attacks", Network Security, October, 1995.
- F. Cohen, "Internet Holes Packet Fragmentation Attacks", Network Security, September, 1995.
- F. Cohen, "Internet Holes Internet Control Message Protocol", Network Security, August, 1995.

Software products developed:

- F. Cohen Cognos, 2023
- F. Cohen PsychoMetrics, 2022
- F. Cohen GTM, 2022
- F. Cohen Sales Sieves 2022
- F. Cohen Decider, (Web version) 2020
- F. Cohen GWiz™ Governance/Growth Wizards
- F. Cohen DiliVer FinTech M&A Advanced Laboratory Environment 2019
- F. Cohen iZen CyberLabs 2018
- F. Cohen Park University CyberLabs 2018
- F. Cohen Cash Flow Simulator (Web version) 2017
- F. Cohen Gigs (Web version), 2016
- F. Cohen JDM (Web version), 2015
- F. Cohen Webster University Cyber Labs, 2014
- F. Cohen Forensic Fonts, 2009
- F. Cohen Decider, 2007
- F. Cohen JDM, 2006
- F. Cohen Security Decisions. 2006
- F. Cohen Surveyor, 2006
- F. Cohen Influence, 2006

- F. Cohen and Garrett Gee, 2002 White Glove Bootable Linux CD
- F. Cohen, 2002 Responder large-scale network deception system
- F. Cohen and Garrett Gee, 2002 White Glove developer platform
- F. Cohen, Darrian Hale, et. al., 2002 Resilience Resilient network infrastructure
- F. Cohen, Anthony Carathemus, et. al. 2001 Secure DNS Server
- F. Cohen, Anthony Carathemus, et. al. 2001 Partition Dump
- F. Cohen, Eric Thomas, and Anthony Carathemus, 2001 Invisible Router
- F. Cohen, 2000 D-Wall Large-scale high fidelity deception system
- F. Cohen, 1999 ForensiX Digital Forensics ToolKit for Linux and Unix
- F. Cohen, 1999 Network Security Simulator
- F. Cohen and E. Dart, 1998 DARE Distributed Analysis and Response
- F. Cohen, 1998 Deception Toolkit
- F. Cohen, 1998 The Security Maze
- F. Cohen, 1997 The Cracking Game
- F. Cohen, 1997 Automated Threat, Attack, and Defense Analysis Tool
- F. Cohen, 1996 CID Database Analysis Tool
- F. Cohen, 1996 ManAlMail SMTP email server
- F. Cohen, 1995 Auditor Internal Audit Tool
- F. Cohen, 1995 Analyzer Network Audit Tool
- F. Cohen, 1995 Trivial HTTP Daemon provably secure web server
- F. Cohen, 1995 Secure Gopher Server provably secure gopher server
- F. Cohen, 1993 Calendar Supplement
- F. Cohen, 1992 PayBack Automated Bill Collection Software
- F. Cohen, 1989 Integrity ToolKit Integrity Shell and Access Control System
- F. Cohen, 1988 Advanced Software Protection Scanner Virus Scanner
- F. Cohen, 1987 Advanced Software Protection Crypto-Checksum Integrity Checker
- F. Cohen, 1987 TRP Small business office software
- F. Cohen, 1986 VCE Viral Computing Environment
- F. Cohen, 1985 Legal Assistant Law Office Software