

Publications

Thesis

T1. Sotiris Ioannidis, “**Security Policy Consistency and Distributed Evaluation in Heterogeneous Systems**”, University of Pennsylvania, 2005.

Book Chapters

B1. Jonathan M. Smith, Michael B. Greenwald, Sotiris Ioannidis, Angelos D. Keromytis, Ben Laurie, Douglas Maughan, Dale Rahn, Jason L. Wright, “**Experiences Enhancing Open Source Security in the POSSE Project**”, in *Free/Open Source Software Development*, ed. Stefan Koch, IGP, December 2003.

B2. Sotiris Ioannidis, Athanasios E. Papathanasiou, Grigorios I. Magklis, Evangelos P. Markatos, Dionisios N. Pnevmatikatos, and Julia Sevaslidou, “**On using Reliable Network RAM in Networks of Workstations**”, in *Cluster Computing*, pp. 109-121, Chapter 10, 2001, ISBN 1-59033-113-3, Nova Science Publishers, USA, 2001.

Journal Publications

J1. Andreas Makridakis, Elias Athanasopoulos, Spiros Antonatos, Demetres Antoniadis, Sotiris Ioannidis, Evangelos P. Markatos, “**Understanding the Behavior of Malicious Applications in Social Networks**”, in *IEEE Network Special Issue on Online Social Networks*, September/October 2010.

J2. Stefan Miltchev, Jonathan M. Smith, Vassilis Prevelakis, Angelos D. Keromytis, Sotiris Ioannidis, “**Decentralized Access Control in Distributed File Systems**”, in *ACM Computing Surveys*, vol. 40, no. 3, September 2008.

J3. K. G. Anagnostakis, M. B. Greenwald, S. Ioannidis, Angelos Keromytis, “**COVERAGE: Detecting and Reacting to Worm Epidemics Using Cooperation and Validation**”, in *Springer International Journal of Information Security (IJIS)*, Special Issue, 2007.

J4. Sotiris Ioannidis, Steven M. Bellovin, John Ioannidis, Angelos D. Keromytis, Kostas Anagnostakis, Jonathan M. Smith, “**Virtual Private Services: Coordinated Policy Enforcement for Distributed Applications**”, in *International Journal of Network Security*, Vol. 4, No. 1, 2007, pp. 69-80, January 2007.

J5. K. G. Anagnostakis, M. B. Greenwald, S. Ioannidis, D. Li, J. M. Smith, “**Flexible Network Monitoring with FLAME**”, in *Computer Networks Journal (Special Issue on Active Networks – Elsevier Science)*, Vol. 50, No. 14, pp. 2548-2563, October 2006.

J6. Sotiris Ioannidis, Umit Rencuzogullari, Robert Stets, Sandhya Dwarkadas, “**CRAUL: Compiler and Run-Time Integration for Adaptation Under Load**”, in *Journal of Scientific Programming*, pp. 261-273, Spring 1999.

J7. Dionisios Pnevmatikatos, Evangelos P. Markatos, Gregory Maglis, Sotiris Ioannidis, “**On using Network RAM as a non-volatile Buffer**”, in *Cluster Computing, Special Issue on I/O in Shared-Storage Clusters*, 2(4), pp. 295-303, Baltzer Science Publishers, 1999.

J8. Sotiris Ioannidis, Athanasios E. Papathanasiou, Grigorios I. Magklis, Evangelos P. Markatos, Dionisios N. Pnevmatikatos, Julia Sevaslidou, “**On using Reliable Network RAM in Networks of Workstations**”, in *Special Issue on High Performance Computing on Clusters Parallel and*

Distributed Computing Practices (PDCP), Vol. 2, No. 2, Nova Science Publishers, USA, February 1999.

J9. N. Hardavellas, G. C. Hunt, S. Ioannidis, R. Stets, S. Dwarkadas, L. Kontothanassis, M. L. Scott, “**Efficient Use of Memory Mapped Interfaces for Shared Memory Computing**”, in *IEEE Technical Committee on Computer Architecture (TCCA) Newsletter Special Issue*, pp. 28-33, March 1997.

Conference Publications

C1. Alexandros Kapravelos, Iasonas Polakis, Elias Athanasopoulos, Sotiris Ioannidis, Evangelos P. Markatos, “**D(e)aling with VoIP: Robust Prevention of DIAL Attacks**”, in *Proceedings of the 15th European Symposium on Research in Computer Security (ESORICS)*, Athens, Greece, September 2010.

C2. Giorgos Vasiliadis, Sotiris Ioannidis, “**GrAVity: A Massively Parallel Antivirus Engine**”, in *Proceedings of the 13th International Symposium on Recent Advances in Intrusion Detection (RAID)*, Ottawa, Ontario, Canada, September 2010.

C3. Periklis Akritidis, W. Y. Chin, Evangelos Markatos, Sotiris Ioannidis, Spiros Antonatos, Kostas Anagnostakis, “**HoneyLab: Large-scale Honeypot Deployment and Resource Sharing**”, in *Proceedings of the 3rd International Conference on Network and Systems Security (NSS)*, Gold Coast, Australia, October 2009.

C4. Eleni Gessiou, Alexandros Lambrinidis, Sotiris Ioannidis, “**A Greek (Privacy) Tragedy: The Introduction of Social Security Numbers in Greece**”, in *Proceedings of the 8th ACM CCS Workshop on Privacy in the Electronic Society (WPES)*, Chicago, Illinois, USA, November 2009.

C5. Giorgos Vasiliadis, Spiros Antonatos, Michalis Polychronakis, Evangelos P. Markatos, Sotiris Ioannidis, “**Regular Expression Matching on Graphics Hardware for Intrusion Detection**”, in *Proceedings of the 12th International Symposium on Recent Advances in Intrusion Detection (RAID)*, Saint-Malo, France, September 2009.

C6. Lazaros Koromilas, George Chinis, Irimi Fundulaki, Sotiris Ioannidis, “**Controlling Access to XML Documents over XML Native and Relational Databases**”, in *Proceedings of the 6th VLDB Workshop on Secure Data Management (SDM)*, Lyon, France, August 2009.

C7. Giorgos Vasiliadis, Spiros Antonatos, Michalis Polychronakis, Evangelos P. Markatos, Sotiris Ioannidis, “**Gnort: High Performance Network Intrusion Detection Using Graphics Processors**”, in *Proceedings of the 11th International Symposium on Recent Advances in Intrusion Detection (RAID)*, Boston, MA, USA, September 2008.

C8. E. Athanasopoulos, A. Makridakis, S. Antonatos, D. Antoniadis, S. Ioannidis, K. G. Anagnostakis, E. P. Markatos, “**Antisocial Networks: Turning a Social Network into a Botnet**”, in *Proceedings of the 11th Information Security Conference (ISC)*, Taipei, Taiwan, September 2008.

C9. Vasilis Pappas, Elias Athanasopoulos, Sotiris Ioannidis, Evangelos P. Markatos, “**Compromising Anonymity Using Packet Spinning**”, in *Proceedings of the 11th Information Security Conference (ISC)*, Taipei, Taiwan, September 2008.

C10. Herbert Bos, Sotiris Ioannidis, Erland Jonsson, Engin Kirda, Chris Kruegel, “**Future Threats to Future Trust**”, in *Proceedings of the Future of Trust in Computing Conference*, Berlin, Germany, July 2008.

C11. S. Antonatos, M. Athanatos, G. Kondaxis, J. Velegrakis, N. Hatzibodozis, S. Ioannidis, E. P. Markatos, "**Honey@home: A New Approach to Large-Scale Threat Monitoring**", in *Proceedings of the 1st WOMBAT Workshop*, Amsterdam, The Netherlands, April 2008.

C12. Peter I. Politopoulos, Evangelos P. Markatos, Sotiris Ioannidis, "**Evaluation of Compression of Remote Network Monitoring Data Streams**", in *Proceedings of the 6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon)*, Salvador, Bahia, Brazil, April 2008.

C13. Nikos Nikiforakis, Demetres Antoniadis, Evangelos P. Markatos, Sotiris Ioannidis, Arne Olesbo, "**When AppMon met Stager**", in *Proceedings of the 6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon)* (short paper), Salvador, Bahia, Brazil, April 2008.

C14. Stelios Sidiroglou, Sotiris Ioannidis, Angelos Keromytis, "**Band-aid Patching**", in *Proceedings of the USENIX 3rd Workshop on Hot Topics in System Dependability (HotDep)* (short paper), Edinburgh, UK, June 2007.

C15. Jonathan Voris, Sotiris Ioannidis, Susanne Wetzel, Ulrike Meyer, "**Performance Evaluation of a Privacy-Preserving Policy Reconciliation Protocol**", in *Proceedings of the IEEE Workshop on Policies for Distributed Systems and Networks (Policy)*, Rome, Italy, June 2007.

C16. Ulrike Meyer, Susanne Wetzel, Sotiris Ioannidis, "**Distributed Privacy-Preserving Policy Reconciliation**", in *Proceedings of the IEEE International Conference on Communications (ICC)*, Glasgow, UK, June 2007.

C17. Vasilis Prevelakis, Sotiris Ioannidis, "**Preserving TCP Connections Across Host Address Changes**", in *Proceedings of the 9th Information Security Conference (ISC)*, Samos, Greece, August - September 2006.

C18. K. G. Anagnostakis, M. B. Greenwald, S. Ioannidis, Angelos Keromytis, "**Robust Reactions to Potential Day-Zero Worms through Cooperation and Validation**", in *Proceedings of the 9th Information Security Conference (ISC)*, Samos, Greece, August-September 2006.

C19. Sotiris Ioannidis, Stelios Sidiroglou, Angelos Keromytis, "**Privacy as an Operating System Service**", in *Proceedings of the USENIX 1st Workshop on Hot Topics in Security (HotSec)*, Vancouver, BC, Canada, July 2006.

C20. A. D. Keromytis, K. Anagnostakis, S. Ioannidis, M. Greenwald, J. M. Smith, "**Managing Access Control in Large Scale Heterogeneous Networks**", in *Proceedings of the NATO C3 Symposium on Interoperable Networks for Secure Communications (INSC)*, The Hague, Netherlands, November 2003.

C21. K. G. Anagnostakis, M. B. Greenwald, S. Ioannidis, A. D. Keromytis, D. Li, "**A Cooperative Immunization System for an Untrusting Internet**", in *Proceedings of the 11th IEEE International Conference on Networks (ICON)*, pp. 403-408, Sydney, Australia, October 2003.

C22. Matt Blaze, John Ioannidis, Sotiris Ioannidis, Angelos D. Keromytis, Pekka Nikander, Vassilis Prevelakis, "**TAPI: Transactions for Accessing Public Infrastructure**", in *Proceedings of the 8th IFIP Personal Wireless Communications (PWC) Conference*, Venice, Italy, September 2003.

C23. Stefan Miltchev, Vassilis Prevelakis, Sotiris Ioannidis, John Ioannidis, Angelos D. Keromytis, Jonathan M. Smith, "**Secure and Flexible Global File Sharing**", in *Proceedings of the USENIX Annual Technical Conference, Freenix Track*, pp. 165 - 178, San Antonio, TX, June 2003.

C24. Sotiris Ioannidis, Steven M. Bellovin, John Ioannidis, Angelos D. Keromytis, Jonathan M.

Smith, "**Design and Implementation of Virtual Private Services**", in *Proceedings of the IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), Workshop on Enterprise Security, Special Session on Trust Management in Collaborative Global Computing*, Linz, Austria, June 2003.

C25. Alexander Levine, Vassilis Prevelakis, John Ioannidis, Sotiris Ioannidis, Angelos D. Keromytis, "**WebDAVA: An Administrator-Free Approach To Web File-Sharing**", in *Proceedings of the IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), Workshop on Distributed and Mobile Collaboration*, Linz, Austria, June 2003.

C26. Angelos D. Keromytis, Sotiris Ioannidis, Michael B. Greenwald, Jonathan M. Smith, "**The STRONGMAN Architecture**", in *Proceedings of the Third DARPA Information Survivability Conference and Exposition (DISCEX III)*, Washington DC, April 2003.

C27. K. G. Anagnostakis, M. Greenwald, S. Ioannidis, S. Miltchev, "**Open Packet Monitoring on FLAME: Safety, Performance and Applications**", in *Proceedings of the 4th IFIP International Working Conference on Active Networks (IWAN)*, pp. 120-131, Zurich, Switzerland, December 2002.

C28. Sotiris Ioannidis, Steven M. Bellovin, Jonathan M. Smith, "**Sub-Operating Systems: A New Approach to Application Security**", in *Proceedings of the ACM SIGOPS European Workshop*, France, September 2002.

C29. Stefan Miltchev, Sotiris Ioannidis, Angelos Keromytis, "**A Study of the Relative Costs of Network Security Proto-cols**", in *Proceedings of USENIX 2002 Annual Technical Conference, Freenix Track*, Monterey, CA, June 2002.

C30. S. Ioannidis, K. G. Anagnostakis, J. Ioannidis, A. D. Keromytis, "**xPF: Packet Filtering for Low - Cost Network Monitoring**", in *Proceedings of the IEEE Workshop on High-Performance Switching and Routing (HPSR)*, pp. 121-126, Kobe, Japan, May 2002.

C31. John Ioannidis, Sotiris Ioannidis, Angelos D. Keromytis, Vassilis Prevelakis, "**Fileteller: Paying and Getting Paid for File Storage**", in *Proceedings of Financial Cryptography (FC)*, Bermuda, March 2002.

C32. K. G. Anagnostakis, S. Ioannidis, S. Miltchev, J. Ioannidis, M. Greenwald, J. M. Smith, "**Efficient Packet Monitoring for Network Management**", in *Proceedings of the 8th IEEE/IFIP Network Operations and Management Symposium (NOMS)*, pp. 423-436, Florence, Italy, April 2002.

C33. K. G. Anagnostakis, S. Ioannidis, S. Miltchev, J. M. Smith, "**Practical Network Applications on a Lightweight Active Management Environment**", in *Proceedings of the 3rd IFIP International Working Conference on Active Networks (IWAN)*, pp. 101-115, Philadelphia, USA, October 2001.

C34. Sotiris Ioannidis, Steven M. Bellovin, "**Building a Secure Web Browser**", in *Proceedings of USENIX Annual Technical Conference, Freenix Track*, Boston, June 2001.

C35. Sotiris Ioannidis, Angelos D. Keromytis, Steven M. Bellovin, Jonathan M. Smith, "**Implementing a Distributed Firewall**", in *Proceedings of the ACM Computer and Communications Security (CCS)*, pp. 190-199, Athens, Greece, November 2000.

C36. K. G. Anagnostakis, M. W. Hicks, S. Ioannidis, A. D. Keromytis, J. M. Smith, "**Scalable Resource Control in Active Networks**", in *Proceedings of the 2nd IFIP International Working Conference on Active Networks (IWAN)*, pp. 343-357, Tokyo, Japan, October 2000.

C37. Sotiris Ioannidis, Evangelos P. Markatos, Julia Sevaslidou, “**Using Network Memory to Improve the Performance of Transaction-Based Systems**”, in *Proceedings of International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)*, Las Vegas, NV, July 1998.

C38. Sotiris Ioannidis, Sandhya Dwarkadas, “**Compiler and Run-Time Support for Adaptive Load Balancing in Software Distributed Shared Memory Systems**”, in *Proceedings of the ACM Fourth Workshop on Languages, Compilers, and Run-time Systems for Scalable Computers (LCR)*, pp. 107-122, Pittsburg, PA, May 1998.

Articles (non peer reviewed)

A1. Sotiris Ioannidis, Evangelos Markatos, Engin Kirda, Christopher Kruegel, “**Drivers of Emerging and Future Threats in ICT Infrastructures**”, in *ENISA Quarterly, Vol. 5, No. 3*, July-September 2009.

A2. Sotiris Ioannidis, Evangelos Markatos, Christopher Kruegel, “**On looking FORWARD**”, in *ERCIM News, No. 76*, January 2009

A3. Sotiris Ioannidis, Evangelos Markatos, Engin Kirda, Christopher Kruegel, “**Tracing the Changing Nature of Cyberattacks**”, in *ENISA Quarterly, Vol. 4, No. 4*, October-December 2008.

Selected Invited Talks

1. “**Cloud Computing Threats (real and perceived)**”, Free and Open Source Software Workshop, University of Crete, May 2010.

2. “**Web Security**,” W3C Workshop, Foundation for Research and Technology – Hellas, September 2009.

3. “**Gnort: High Performance Intrusion Detection Using Graphics Processors**,” AIT Workshop on Practical aspects of security (PRACSE), June 2009.

4. “**Security and Privacy in a Networked and Mobile World**,” FIDIS Interdisciplinary Doctoral Consortium, June 2008.

5. “**Consistent Security Policy Evaluation**,” Stevens, Columbia, and IBM Research, Security and Privacy Day, November 2005.

6. “**Consistent Security Policy for Decentralized Systems**,” Institute of Computer Science, Foundation for Research and Technology Hellas, February 2004.

7. “**Abstraction, Specification and Enforcement of Security Policies for Decentralized Systems**,” TACL Seminar, Princeton University, November 2003.

8. “**Consistent Security Policy for Decentralized Systems**,” Rutgers University, July 2003.

9. “**Abstraction, Specification and Enforcement of Security Policies for Decentralized Systems**,” Secure Systems Research Department, AT&T Labs Research, September 2002.

10. “**Fine-Grain Policy-Based Access Control for Distributed Systems**,” SDL–LCS Seminar Series, Carnegie-Mellon University, April 2002.

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