

## 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 15<sup>th</sup> 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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