

ELIAS ATHANASOPOULOS

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Computer Science Department
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Education

- 2011: Ph.D. in Computer Science, University of Crete.
Modern Techniques for the Detection and Prevention of Web2.0 Attacks.
Advisor: Prof. Evangelos P. Markatos.
- 2006: M.Sc. in Computer Science, University of Crete.
Using Unstructured Peer-to-Peer Systems as Denial of Service Attack Platforms.
Advisor: Prof. Evangelos P. Markatos.
- 2005: B.Sc. in Physics, University of Athens.

Employment

- May 2022 - now: University of Cyprus, Associate Professor.
- September 2016 - April 2022: University of Cyprus, Assistant Professor.
- October 2015 - August 2016: VU University, Amsterdam, Assistant Professor.
- November 2014 - August 2015: FORTH, Collaborating Researcher.
- December 2013 - October 2014: FORTH, Marie Curie Fellow.
- November 2011 - November 2013: Columbia University, Marie Curie Fellow.
- February 2005 - August 2011: FORTH, Research Assistant.
- August 2007 - October 2007: Microsoft Research Cambridge, Research Intern.
- February 2005 - August 2011: FORTH, Research Assistant.
- 2005-2007: Attica Media Group, Editor.
- 2003-2004: Liberis Media Group, IT.
- 2000-2002: Flash Multimedia (Flash.gr), Editor.

Teaching

Instructor

- CS326: Systems Security, University of Cyprus, Spring 2019-2023.
- CS451: Software Analysis, University of Cyprus, Spring 2021-22.
- DSC517: Data Security, University of Cyprus, Fall 2022.
- CS682: Advanced Security Topics, University of Cyprus, Spring 2018-2020.
- CS133: Object Oriented Programming, Fall 2020.
- CS222: Operating Systems, University of Cyprus, Fall 2019.

- CS475: Network and Information Security, University of Cyprus, Fall 2017.
- CS371: Systems Programming, University of Cyprus, Spring 2017.
- CS323: Theory and Practice of Compilers, University of Cyprus, Spring 2017-2018.
- CS132: Programming Principles II (C programming), University of Cyprus, Fall 2016.
- Secure Programming, VU University, Amsterdam, Period 1, 2016-2017.
- CS457: Introduction to Information Systems Security, University of Crete, Fall 2014.
- CS345: Operating Systems, University of Crete, Fall 2012.

Teaching Assistant

- CS345: Operating Systems, Univ. of Crete, Fall 2009, 2008 and Spring 2006.
- CS558: Internet Technologies, University of Crete, Spring 2009, 2007.
- CS459: Internet Measurements, University of Crete, Fall 2010.
- CS556: Distributed Systems, University of Crete, Spring 2008.
- CS554: Peer-to-Peer Systems, University of Crete, Fall 2007.
- CS555: Parallel Systems and Grids, University of Crete, Fall 2006.
- CS457: Information Systems Security, University of Crete, Fall 2005.
- CS255: Software Engineering Laboratory, University of Crete, Spring 2005.

Scholarships

- XHUNTER. IOF Marie Curie Fellowship (FP7-PEOPLE-2010-IOF),
- 2012-2015. Microsoft Research Ph.D. Scholarship Program, 100,000 euros (2008-2011).
- Graduate Research Fellowship, FORTH, Prof. Evangelos P. Markatos, 2005-2011.

Awards

- Distinguished paper award finalist (*IEEE ESSP 2022*).
- Best paper award (*IEEE ESSP 2020*).
- Outstanding paper award (*CODASPY 2016*).
- Best student paper award (*ACSAC 2015*).
- Dutch Cyber Security Research best paper award (*Out Of Control: Overcoming Control-Flow Integrity, IEEE Security and Privacy 2014*).
- Maria M. Manassaki Bequest Scholarship, University of Crete. Given to the two best Ph.D. students of the Computer Science Department, 2009-2010.

Editorial Boards

- Deputy Editor, IET Information Security, December 2021 - March 2023.
- Associate Editor, IET Information Security, March 2018 - November 2021.

Service

- Publicity Chair - Applied Cryptography and Network Security (ACNS), 2024.
- Program Co-chair - Information Security Conference (ISC), 2023.
- General Chair - International Symposium on Research in Attacks, Intrusions and Defenses (RAID), 2022.
- Publication Chair - International Symposium on Engineering Secure Software and Systems (ESSoS), 2016, 2017.

Program Committee

- Usenix Security, 2021, 2022, 2024.
- IEEE European Security and Privacy (IEEE EuroS&P), 2024.
- The Web Conference (ACM WWW), 2024.
- SECRIPT, 2023, 2024.
- IEEE International Conference on Distributed Computing Systems (ICDCS), 2023.
- IEEE/IFIP Network Operations and Management Symposium (NOMS), 2022.
- Annual Computer Security Applications Conference (ACSAC), 2017, 2018, 2019, 2020, 2021, 2022.
- Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA), 2018, 2020.
- European Workshop on System Security (EuroSec), 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023.
- EAI International Conference on Security and Privacy in Communication Networks (SecureComm), 2021, 2022.
- Australasian Conference on Information Security and Privacy (ACISP), 2020.
- International Workshop on Security in Mobile Technologies (co-located with ACNS), 2020.
- Usenix WOOT, 2018.
- Workshop on Speculative Side-Channel Analysis (WoSSCA, co-located with ECOOP), 2018.
- ACM Student Research Competition as part of the International Conference on Parallel Architectures and Compilation Techniques (PACT), 2018
- ERCIM Blockchain, 2018.
- International workshop on Information & Operational Technology (IT & OT) security systems (IOSec, co-located with ESORICS), 2019.
- International workshop on Information & Operational Technology (IT & OT) security systems (IOSec, co-located with RAID), 2018.
- ACM Conference on Computer and Communications Security (CCS), 2017.
- Information Security Conference (ISC), 2016, 2019.
- IEEE Symposium on Computers and Communications (ISCC), 2017, 2018.
- International Conference on Applied Cryptography and Network Security (ACNS), 2016.
- Passive and Active Measurement Conference (PAM), 2016.
- International Workshop on Security and Trust Management (STM, co-located with ESORICS), 2016.
- IEEE TrustCom, 2016.
- International Symposium on Research in Attacks, Intrusions and Defenses (RAID), 2015.
- International Conference on Trust and Trustworthy Computing (TRUST), 2014, 2015.
- International Workshop on Future Scenarios for Cyber Crime and Cyber Terrorism (FCCT), 2015.
- International Symposium on Engineering Secure Software and Systems (ESSoS), 2015.
- International Conference on Information Systems Security and Privacy (ICISSP), 2014.
- International Workshop on Building Analysis Datasets and Gathering Experience Returns for Security (BADGERS), 2014.
- IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), 2011.

Ph.D. Thesis Committee Service

- Eva Papadogiannaki, *Identification of Events on Encrypted Network Traffic and Characterization of Malicious Servers on the Internet*, University of Crete, July 2023.
- Argyris Constantinidis, *Personalized Cued-Recall Graphical User Authentication Based on Image Content Familiarity*, University of Cyprus, April 2022.

- Despoina Antonakaki, *Analysis of Evolution, Dynamics and Vulnerabilities of Online Social Networks*, University of Crete, January 2020.
- Zacharias Hadjilambrou, *Harnessing Electromagnetic Emanations for Power-Delivery Network Characterization*, University of Cyprus, November 2019.
- Lucian Cojocar, *Between a Hard and a Soft Place: The (In)secure Interplay of Hardware and Software*, Vrije Universiteit, Amsterdam, September 2019.
- Hariton Efstathiades, *Online Social Networks Analysis: Extracting Insights and Evolution Trends*, University of Cyprus, March 2018.
- Dimitris Trihinas, *Low-Cost Approximate and Adaptive Monitoring Techniques for the Internet of Things*, University of Cyprus, December 2017.

Support for Research

PI

- SecOPERA: Secure Open-source softwarE and hardwaRe Adaptable framework (HORIZON-CL3-2021-CS-01). Duration 2023-2025.
- CyberSecPro: Collaborative, Multi-modal and Agile Professional Cybersecurity Training Program for a Skilled Workforce In the European Digital Single Market and Industries (Horizon Digital Europe). Duration 2022-2025.
- RESPECT: Secure and Privacy-preserving Indoor Robotics for Healthcare Environments. Funded by the The European Commission (H2020/MSCA-RISE-2020). Duration 2021-2023.
- CyberSec4Europe: Establishing and operating a pilot for a Cybersecurity Competence Network to develop and implement a common Cybersecurity Research and Innovation Roadmap. Funded by The European Commission (H2020/SU-ICT-03-2018). Duration 2019-2022.
- REACT: REactively Defending against Advanced Cybersecurity Threats. Funded by The European Commission (H2020/DS-07-2017). Duration 2018-2021.
- PERSONAS: Situational Awareness, Control and Security Policies Enforcement on Multiple Virtualization Personas of Personal Devices. Funded by Research Promotion Foundation (RESTART/ENTERPRISES). Duration 2018-2020.

Publications

1. Antonis Louka, Antreas Dionysiou, and Elias Athanasopoulos. Validating Memory Safety in Rust Binaries. *In Proceedings of the 17th European Workshop on Systems Security (EuroSec)*, April 2024. Athens, Greece.
2. Pantelina Ioannou and Elias Athanasopoulos. Been here already? Detecting Synchronized Browsers in the Wild. *In Proceedings of the 8th IEEE European Symposium on Security and Privacy*, July 2023. Delft, Netherlands.
3. Antreas Dionysiou and Elias Athanasopoulos. SoK: Membership Inference is Harder than Previously Thought. *In Proceedings of the 23rd Privacy Enhancing Technologies Symposium (PETS)*, June 2023. Lausanne, Switzerland.
4. Antreas Dionysiou, Vassilis Vassiliades, and Elias Athanasopoulos. Exploring Model Inversion Attacks in the Black-box Setting. *In Proceedings of the 23rd Privacy Enhancing Technologies Symposium (PETS)*, June 2023. Lausanne, Switzerland.
5. Antreas Dionysiou and Elias Athanasopoulos. Lethe: Practical Data Breach Detection with Zero Persistent Secret State. *In Proceedings of the 7th IEEE European Symposium on Security and Privacy*, June, 2022. Genoa, Italy.
6. Antreas Dionysiou and Elias Athanasopoulos. Unicode Evil: Evading NLP Systems Using Visual Similarities of Text Characters. *In Proceedings of the 14th ACM Workshop on Artificial Intelligence and Security (AISEC)*, November, 2021. Virtual.
7. Orpheas van Rooij, Marcos Charalambous, Demetris Kaizer, Michalis Papaevripides, and Elias Athanasopoulos. webFuzz: Grey-box Fuzzing for Web Applications. *In Proceedings of the 26th European Symposium on Research in Computer Security (ESORICS)*, October 2021. Darmstadt, Germany (virtual).
8. George Christou, Giorgos Vasiliadis, Elias Athanasopoulos and Sotiris Ioannidis. Hard edges: Hardware-based Control-Flow Integrity for Embedded Devices. *In Proceedings of the 21st International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation (SAMOS)*, July 2021. Virtual.

9. Antreas Dionysiou, Vassilis Vassiliades, and Elias Athanasopoulos. HoneyGen: Generating Honeywords Using Representation Learning. *In Proceedings of the 16th ACM Asia Conference on Computer and Communications Security (AsiaCCS)*, June 2021. Hong Kong, China (virtual).
10. Michalis Papaevripides and Elias Athanasopoulos. Exploiting Mixed Binaries. *In Proceedings of the ACM Transactions on Privacy and Security (TOPS)*, January 2021. Article No.: 7, pp 1-29.
11. Christos Avraam and Elias Athanasopoulos. Evaluation of the Adoption and Privacy Risks of Google Prompts. *In Proceedings of the 1st Workshop on Security in Mobile Technologies (co-located with ACNS)*, October 2020. Rome, Italy (virtual).
12. Radhesh K. Konoth, Björn Fischer, Wan Fokkink, Elias Athanasopoulos, Kaveh Razavi, Herbert Bos. SecurePay: Strengthening Two-Factor Authentication for Arbitrary Transactions. *In Proceedings of the 5th IEEE European Symposium on Security and Privacy 2020*, September 2020. Genova, Italy (virtual).
13. Neophytos Christou and Elias Athanasopoulos. auth.js: Advanced Authentication for the Web. *In Proceedings of the 3rd International Workshop on Emerging Technologies for Authorization and Authentication (co-located with ESORICS)*, September 2020. Guildford, UK (virtual).
14. Antreas Dionysiou and Elias Athanasopoulos. SoK: Machine vs. Machine - A Systematic Classification of Automated Machine Learning-based CAPTCHA Solvers. *In Proceedings of the Computers & Security 97, 101947*, July 2020.
15. Constantinos Diomedous and Elias Athanasopoulos. Practical Password Hardening based on TLS. *In Proceedings of the 16th Conference on Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA)*, June 2019. Gothenburg, Sweden.
16. Panayiotis Charalambous, Marios Karapetris, and Elias Athanasopoulos. KAuth: A Strong Single Sign-On Service based on PKI. *In Proceedings of the International Conference on Security and Cryptography (SECRYPT)*, July 2018. Porto, Portugal.
17. Andrei Tatar, Radhesh Krishnan, Elias Athanasopoulos, Cristiano Giuffrida, Herbert Bos, Kaveh Razavi. Throwhammer: Rowhammer Attacks over the Network and Defenses. *In Proceedings of the Annual Usenix Technical Conference (ATC)*, June 2018. Boston, MA, US.
18. Panagiotis Papadopoulos, Antonios A. Chariton, Elias Athanasopoulos, Evangelos P. Markatos. Where's Wally? How to Privately Discover your Friends on the Internet (short paper). *In Proceedings of the 13th ACM Asia Conference on Computer and Communications Security (AsiaCCS)*, June 2018. Songdo, Incheon, South Korea.
19. Giannis Tzagarakis, Panagiotis Papadopoulos, Antonios A. Chariton, Elias Athanasopoulos, Evangelos P. Markatos. Opass: Zero-storage Password Management Based on Password Reminders. *In Proceedings of the 11th European Workshop on Systems Security (EuroSec)*, April 2018. Porto, Portugal.
20. Georgios Tsirantonakis, Panagiotis Iliia, Sotiris Ioannidis, Elias Athanasopoulos, and Michalis Polychronakis. A Large-scale Analysis of Content Modification by Open HTTP Proxies. *In Proceedings of the 24th Network and Distributed System Security Symposium (NDSS)*, February 2018. San Diego, CA, US.
21. Manolis Stamatogiannakis, Elias Athanasopoulos, Herbert Bos, and Paul Groth. PROV2R: Practical Provenance Analysis of Unstructured Processes. *In Proceedings of the ACM Transactions on Internet Technology*, August 2017.
22. Koen Koning, Xi Chen, Herbert Bos, Cristiano Giuffrida, and Elias Athanasopoulos. No Need to Hide: Protecting Safe Regions on Commodity Hardware. *In Proceedings of the European Conference on Computer Systems (EuroSys)*, April 2017. Belgrade, Serbia.
23. Andre Pawloski, Moritz Contag, Thorsten Holz, Victor van der Veen, Chris Ouwehand, Herbert Bos, Elias Athanasopoulos, and Cristiano Giuffrida. MARX: Uncovering Class Hierarchies in C++ Programs. *In Proceedings of the 24th Network and Distributed System Security Symposium (NDSS)*, February 2017. San Diego, CA, US.
24. Pawel Sarbinowski, Vasileios P. Kemerlis, Cristiano Giuffrida, and Elias Athanasopoulos. VTPin: Practical VTable Hijacking Protection for Binaries. *In Proceedings of the 32nd Annual Computer Security Applications Conference (ACSAC)*, December 2016. Los Angeles, CA, US.
25. Elias Athanasopoulos, Vasileios P. Kemerlis, Georgios Portokalidis, and Angelos D. Keromytis. NaCIDroid: Native Code Isolation for Android Applications. *In Proceedings of the 21st European Symposium on Research in Computer Security (ESORICS)*, September 2016. Heraklion, Crete, Greece.
26. Panagiotis Papadopoulos, Elias Athanasopoulos, Eleni Kosta, George Siganos, Angelos D. Keromytis, and Evangelos P. Markatos. Provable Network Activity for Protecting Users against False Accusation. *In Proceedings*

of the 10th WISTP Conference in Information Security Theory and Practice (WISTP), September 2016. Heraklion, Crete, Greece.

27. Lazaros Koromilas, Giorgos Vasiliadis, Elias Athanasopoulos, and Sotiris Ioannidis. GRIM: Leveraging GPUs for Kernel Integrity Monitoring. In *Proceedings of the 19th International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, September 2016. France, Paris.
28. Aggelos Oikonomopoulos, Elias Athanasopoulos, Herbert Bos, and Cristiano Giuffrida. Poking Holes in Information Hiding. In *Proceedings of the 25th USENIX Security Symposium*, August 2016. Austin, TX, US.
29. Enes Göktaş, Robert Gawlik, Benjamin Kollenda, Elias Athanasopoulos, Georgios Portokalidis, Cristiano Giuffrida, and Herbert Bos. Undermining Information Hiding (And What to do About it). In *Proceedings of the 25th USENIX Security Symposium*, August 2016. Austin, TX, US.
30. Victor van der Veen, Enes Göktaş, Moritz Contag, Andre Pawloski, Xi Chen, Sanjay Rawat, Herbert Bos, Thorsten Holz, Elias Athanasopoulos, and Cristiano Giuffrida. A Tough call: Mitigating Advanced Code-Reuse Attacks At The Binary Level. In *Proceedings of the 37th Symposium on Security and Privacy (Oakland)*, May 2016. San Jose, CA, US.
31. Nick Christoulakis, George Christou, Elias Athanasopoulos, and Sotiris Ioannidis. HCFI: Hardware-enforced Control-Flow Integrity. In *Proceedings of the 6th ACM Conference on Data and Applications Security and Privacy (CODASPY)*, March 2016. New Orleans, LA, US.
32. Istvan Haller, Enes Göktaş, Elias Athanasopoulos, Georgios Portokalidis, and Herbert Bos. ShrinkWrap: VTable Protection without Loose Ends. In *Proceedings of the 31st Annual Computer Security Applications Conference (ACSAC)*, December 2015. Los Angeles, CA, US.
33. Panagiotis Ilia, Iasonas Polakis, Elias Athanasopoulos, Federico Maggi, Sotiris Ioannidis. Face/Off: Preventing Privacy Leakage From Photos in Social Networks. In *Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS)*, October 2015. Denver, CO, US.
34. Thanasis Petsas, Giorgos Tsirantonakis, Elias Athanasopoulos, and Sotiris Ioannidis. Two-factor Authentication: Is the World Ready? Quantifying 2FA Adoption. In *Proceedings of the 8th European Workshop on System Security (EUROSEC 2015)*, April 2015. Bordeaux, France.
35. Michalis Athanasakis, Elias Athanasopoulos, Michalis Polychronakis, Georgios Portokalidis, and Sotiris Ioannidis. The Devil is in the Constants: Bypassing Defenses in Browser JIT Engines. In *Proceedings of the 22nd Network and Distributed System Security Symposium (NDSS 2015)*, February 2015. San Diego, CA, US.
36. Giorgos Vasiliadis, Elias Athanasopoulos, Michalis Polychronakis, and Sotiris Ioannidis. PixelVault: Using GPUs for Securing Cryptographic Operations. In *Proceedings of the 21st ACM Conference on Computer and Communications Security (CCS)*, November 2014. Scottsdale, Arizona, US.
37. Dimitris Deyannis, Lazaros Koromilas, Giorgos Vasiliadis, Elias Athanasopoulos, and Sotiris Ioannidis. Flying Memcache: Lessons Learned from Different Acceleration Strategies. In *Proceedings of the International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD)*, October 2014. Paris, France.
38. Enes Göktaş, Elias Athanasopoulos, Michalis Polychronakis, Herbert Bos, and Georgios Portokalidis. Size Does Matter - Why Using Gadget-Chain Length to Prevent Code-reuse Attacks is Hard. In *Proceedings of the 23rd USENIX Security Symposium*, August 2014. San Diego, CA, US.
39. Martina Lindorfer, Stamatis Volanis, Alessandro Sisto, Matthias Neugschwandtner, Elias Athanasopoulos, Federico Maggi, Christian Platzer, Stefano Zanero, and Sotiris Ioannidis. AndRadar: Fast Discovery of Android Applications in Alternative Markets. In *Proceedings of the 11th Conference on Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA)*, July 2014. Egham, UK.
40. Enes Göktaş, Elias Athanasopoulos, Herbert Bos, and Georgios Portokalidis. Out Of Control: Overcoming Control-Flow Integrity. In *Proceedings of the 35th IEEE Symposium on Security and Privacy (Oakland)*, May 2014. San Jose, CA, US.
41. Thanasis Petsas, Giannis Voyatzis, Elias Athanasopoulos, Michalis Polychronakis, and Sotiris Ioannidis. Rage Against the Virtual Machine: Hindering Dynamic Analysis of Android Malware. In *Proceedings of the 7th ACM European Workshop on System Security (EUROSEC)*, April 2014. Amsterdam, The Netherlands.
42. Iasonas Polakis, Stamatis Volanis, Elias Athanasopoulos, and Evangelos P. Markatos. The man who was there: Fortifying the Economy of Location-Based Services. In *Proceedings of the 29th Annual Computer Security Applications Conference (ACSAC)*, December 2013. New Orleans, LA, US.

43. Georgios Kontaxis, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis. SAAuth: Protecting User Accounts from Password Database Leaks. *In Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS)*, November 2013. Berlin, Germany.
44. Georgios Chinis, Polyvios Pratikakis, Elias Athanasopoulos, and Sotiris Ioannidis. Practical Information Flow for Legacy Web Applications. *In Proceedings of the International Workshop on Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems (ICOOOLPS)*, co-located with ECOOP, July 2013. Montpellier, France.
45. Vasileios P. Kemerlis, Georgios Portokalidis, Elias Athanasopoulos, and Angelos D. Keromytis. kGuard: Lightweight Kernel Protection. *In Proceedings of the USENIX ;login: Magazine*, vol. 37, no. 6, pp. 7 - 14, December 2012.
46. Eleni Gessiou, Stamatis Volanis, Elias Athanasopoulos, Evangelos P. Markatos, and Sotiris Ioannidis. Digging up Social Structures from Documents on the Web. *In Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, December 2012. Anaheim, California, USA.
47. Angeliki Zavou, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis. Exploiting Split Browsers for Efficiently Protecting User Data. *In Proceedings of the ACM Cloud Computing Security Workshop (CCSW)*, October 2012. Raleigh, NC, USA.
48. Elias Athanasopoulos, Vasileios P. Kemerlis, Michalis Polychronakis, and Evangelos P. Markatos. ARC: Protecting against HTTP Parameter Pollution Attacks Using Application Request Caches. *In Proceedings of the 10th International Conference on Applied Cryptography and Network Security (ACNS)*, June 2012. Singapore.
49. Eleni Gessiou, Vasilis Pappas, Elias Athanasopoulos, Angelos D. Keromytis, and Sotiris Ioannidis. Towards a Universal Data Provenance Framework using Dynamic Instrumentation. *In Proceedings of the 27th IFIP International Information Security and Privacy Conference (IFIP SEC)*, June 2012. Heraklion, Crete, Greece.
50. Andreas Sfakianakis, Elias Athanasopoulos, and Sotiris Ioannidis. CensMon: A Web Censorship Monitor. *In Proceedings of the 1st USENIX Workshop on Free and Open Communications on the Internet (FOCI)*, co-located with USENIX Security, August 2011. San Francisco, CA, US.
51. Demetris Antoniadis, Iasonas Polakis, Giorgos Kontaxis, Elias Athanasopoulos, Sotiris Ioannidis, Evangelos P. Markatos, and Thomas Karagiannis. we.b: The Web of Short URLs. *In Proceedings of the 20th International World Wide Web Conference (WWW)*, March 2011. Hyderabad, India.
52. Andreas Makridakis, Elias Athanasopoulos, Spyros Antonatos, Demetris Antoniadis, Sotiris Ioannidis, and Evangelos P. Markatos. Understanding The Behavior of Malicious Applications in Social Networks. *In Proceedings of the IEEE Network*, September-October 2010.
53. Elias Athanasopoulos, Antonis Krithinakis, and Evangelos P. Markatos. An Architecture For Enforcing JavaScript Randomization in Web2.0 Applications (short paper). *In Proceedings of the 13th Information Security Conference (ISC)*, October 2010. Boca Raton, Florida.
54. Alexandros Kapravelos, Iasonas Polakis, Elias Athanasopoulos, Sotiris Ioannidis, and Evangelos P. Markatos. D(e|i)aling with VoIP: Robust Prevention of DIAL Attacks. *In Proceedings of the 15th European Symposium on Research in Computer Security (ESORICS)*, September 2010. Athens, Greece.
55. Elias Athanasopoulos, Vasilis Pappas, Antonis Krithinakis, Spyros Ligouras, Evangelos P. Markatos, and Thomas Karagiannis. xJS: Practical XSS Prevention for Web Application Development. *In Proceedings of the 1st USENIX Conference on Web Application Development (WebApps)*, June 2010. Boston, Massachusetts.
56. Antonis Krithinakis, Elias Athanasopoulos, and Evangelos P. Markatos. Isolating JavaScript in Dynamic Code Environments. *In Proceedings of the 1st Workshop on Analysis and Programming Languages for Web Applications and Cloud Applications (APLWACA)*, co-located with PLDI, June 2010. Toronto, Canada.
57. Elias Athanasopoulos, Antonis Krithinakis, and Evangelos P. Markatos. Hunting Cross-Site Scripting Attacks in the Network. *In Proceedings of the 4th Workshop on Web 2.0 Security & Privacy (W2SP)*, May 2010. Oakland, California.
58. Elias Athanasopoulos, Vasilis Pappas, and Evangelos P. Markatos. Code-Injection Attacks in Browsers Supporting Policies. *In Proceedings of the 3rd Workshop on Web 2.0 Security & Privacy (W2SP)*, May 2009. Oakland, California.
59. Elias Athanasopoulos, Antonis Krithinakis, Georgios Kopidakis, Graeme Maxwell, Alistair Poustie, Bob Manning, Rod Webb, Martin Koyabe, Carla Di Cairano-Gilfedder. WISDOM: Security-Aware Fibres. *In Proceedings of the 2nd ACM European Workshop on System Security (EUROSEC)*, March 2009. Nuremberg, Germany.

60. Antonis Krithinakis, Lubomir Stroetmann, Elias Athanasopoulos, Georgios Kopidakis, Evangelos P. Markatos. WSIM: A software platform to simulate all-optical security operations. *In Proceedings of the 2nd European Conference on Computer Network Defense (EC2ND)*, December 2008. Dublin, Ireland.
61. Antonis Theocharides, Demetres Antoniadis, Michalis Polychronakis, Elias Athanasopoulos, and Evangelos P. Markatos. Topnet: A Network-aware top(1). *In Proceedings of the 22nd USENIX Large Installation Systems Administration (LISA) Conference*, November 2008. San Diego, California.
62. Elias Athanasopoulos, Andreas Makridakis, Spyros Antonatos, Demetres Antoniadis, Sotiris Ioannidis, Kostas G. Anagnostakis, and Evangelos P. Markatos. Antisocial Networks: Turning a Social Network into a Botnet. *In Proceedings of the 11th Information Security Conference (ISC)*, September 2008. Taipei, Taiwan.
63. Vasilis Pappas, Elias Athanasopoulos, Sotiris Ioannidis, and Evangelos P. Markatos. Compromising Anonymity Using Packet Spinning. *In Proceedings of the 11th Information Security Conference (ISC)*, September 2008. Taipei, Taiwan.
64. Elias Athanasopoulos, Mema Roussopoulos, Kostas G. Anagnostakis, Evangelos P. Markatos. GAS: Overloading a File Sharing Network as an Anonymizing System. *In Proceedings of the 2nd International Workshop on Security (IWSEC)*, October 2007. Nara, Japan.
65. Nikos Nikiforakis, Andreas Makridakis, Elias Athanasopoulos, and Evangelos P. Markatos. Alice, what did you do last time? Fighting Phishing Using Past Activity Tests. *In Proceedings of the 3rd European Conference on Computer Network Defense (EC2ND)*, October 2007. Heraklion, Greece.
66. Elias Athanasopoulos and Spiros Antonatos . Enhanced CAPTCHAs: Using Animation To Tell Humans And Computers Apart. *In Proceedings of the 10th IFIP Open Conference on Communications and Multimedia Security*, October 2006. Heraklion, Crete.
67. Elias Athanasopoulos, Kostas G. Anagnostakis and Evangelos P. Markatos. Misusing Unstructured P2P Systems to Perform DoS Attacks: The Network that Never Forgets. *In Proceedings of the 4th International Conference on Applied Cryptography and Network Security (ACNS)*, June 2006. Singapore.
68. Charis Papadakis, Paraskevi Fragopoulou, Elias Athanasopoulos, Marios Dikaiakos, Alexandros Labrinidis, Evangelos Markatos. A Feedback-based Approach to Reduce Duplicate Messages in Unstructured Peer-to-Peer Networks. *In Proceedings of the CoreGRID Integration Workshop*, November 2005. Pisa, Italy.