

- Personal Details** Name: Giorgos Vasiliadis
Gender: Male
Date of Birth: January 31, 1985
Nationality: Greek
Languages: English, Greek
Military Service: Fulfilled (Feb 2009 - Jan 2010)
- Education**
- Ph.D. in Computer Science Feb. 2010 – May 2015
Computer Science Department, University of Crete, Greece
Thesis: *Accelerating Stateful Network Packet Processing Using Graphics Hardware*
- M.Sc. in Computer Science Oct. 2006 – Nov. 2008
Computer Science Department, University of Crete, Greece
GPA: 9.20 (out of 10)
Major: Parallel and Distributed Systems
Minor: Information Systems
Thesis: *Improving the Performance of Network Intrusion Detection Systems Using Graphics Processors*
- B.Sc. Degree in Computer Science Sep. 2002 – Jul. 2006
Computer Science Department, University of Crete, Greece
GPA: 8.21 (out of 10); ranked *second* in class
- Work Experience**
- Assistant Professor May 2022 – now
Department of Management Science and Technology, Hellenic Mediterranean University
• Tenure-track Assistant Professor with focus on computational modelling and simulation.
- Research Associate August 2022 – now
Institute of Computer Science, Foundation for Research and Technology - Hellas (FORTH)
• Member of the Computer Architecture and VLSI Systems (CARV) Laboratory.
- Research Engineering Staff / Postdoc Researcher April 2017 – May 2022
(Non-tenured track)
Institute of Computer Science, Foundation for Research and Technology - Hellas (FORTH)
• Devised methods and techniques for abusing modern HTML5 APIs in order to deploy persistent and stealthy browser-based botnets, as well as proposing possible defenses.
• Devised methods for enabling trusted execution environments for the edge (i.e., mobile devices, web browsers, commodity operating systems) and the cloud.
• Designed and implemented high-performance tools for the sentiment analysis of transcripts that are derived from the call centers of telco providers at real-time.
- University Lecturer (Non-tenured track) September 2019 – May 2022
Department of Management Science and Technology, Hellenic Mediterranean University
• Research scholar fellowship for teaching the classes of “Network Programming” and “Object-oriented Programming”.
- Research Scientist (Tenured position) January 2016 – April 2017

Cyber Security Lab, Qatar Computing Research Institute (QCRI)

- Participated on designing, implementing and deploying a scalable platform for network security analytics. The platform has been used to process data from locally deployed honeypots at real-time and visualizing analytics about DRDoS attacks that go through Qatar.

Consulting Software Engineer

June 2015 – December 2015

StealthSec Inc., Berkeley, CA

- As a part-time full stack developer, I worked remotely on the development of SSL/TLS interception techniques and applications, that were integrated in the main products of the company.

Research Intern

March 2013 – June 2013

Symantec Research Labs, Los Angeles, CA

Supervisor: Petros Efstathopoulos

- Designed, implemented, and evaluated portable and robust security features in open-source web proxies, such as Apache Traffic Server, Squid, and Nginx.

R&D Engineer / Research Assistant

March 2010 – December 2015

Institute of Computer Science, Foundation for Research and Technology - Hellas (FORTH)

- During my PhD studies, I worked as a research assistant, doing research on improving the performance of network packet processing applications using commodity heterogeneous commodity processors. Parts of this work, included the implementation of fast pattern matching algorithms on highly-parallel processors, in order to increase the performance of network intrusion detection systems and antiviruses, as well as the design of zero-copy network packet capturing techniques. Besides that, I also explored different ways on utilizing graphics processors (GPUs) for security applications.

R&D Engineer / Research Assistant

July 2005 – Sep. 2008

Institute of Computer Science, Foundation for Research and Technology - Hellas (FORTH)

Honors and Awards

Recipient of the Maria M. Manassaki Bequest Scholarship, University of Crete. Given to the *best* Ph.D. student of the Computer Science Department, 2013.

Recipient of the Symantec Research Labs Graduate Fellowship, 2012. Given annually to 2–4 outstanding Ph.D. students worldwide.

<https://www.nortonlifelock.com/us/en/careers/graduate-fellowship/>

Scholarship and award by the State Scholarships Foundation of Greece for ranking *first* in average grade during the third year of my undergraduate studies, 2005.

External Service

Program Committee member for the 33rd Euromicro International Conference on Parallel, Distributed, and Network-Based Processing (PDP 2025).

Program Committee member for the Excellence in Artificial Intelligence and Edge Computing (ExcelAIEdge25).

Program Committee member for the 16th International Conference on Ambient Systems, Networks, and Technologies (ANT-25).

Program Committee member for the 2024 ACM Cloud Computing Security Workshop (CCSW 2024).

Program Committee member for the 15th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-24).

Program Committee member for the 23rd International Conference on Cryptology and Network Security (CANS 2024)

Program Committee member for the 27th Information Security Conference (ISC 2024).

Program Committee member for the 4th Workshop on Cybersecurity in Healthcare 4.0 (SecHealth 2024).

Program Committee member for the 19th International Workshop on Security (IWSEC 2024).

Program Committee member for the 17th European Workshop on System Security (EuroSec 2024).

Program Committee member for the 38th International Conference on Advanced Information Networking and Applications (AINA-2024).

Program Committee member for the 6th International Conference on Frontiers in Cyber Security (FCS 2023)

Program Committee member for the 22nd International Conference on Cryptology and Network Security (CANS 2023)

Program Committee member for the 4th International Workshop on Security in Mobile Technologies (SecMT 2023).

Program Committee member for the 26th Information Security Conference (ISC 2023).

Program Committee member for the 18th International Workshop on Security (IWSEC 2023).

Program Committee member for the 3rd Workshop on Cybersecurity in Healthcare 4.0 (SecHealth 2023).

Program Committee member for the 16th European Workshop on System Security (EuroSec 2023).

Program Committee member for the 2022 ACM Cloud Computing Security Workshop (CCSW 2022).

Program Committee member for the 13th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-22).

Program Committee member for the 21st International Conference on Cryptology And Network Security (CANS 2022).

Program Committee member for the 17th International Workshop on Security (IWSEC 2022).

Program Committee member for the International workshop on Information & Operational Technology (IT & OT) security systems (IOSec 2022).

Program Committee member for the 2nd Workshop on Cybersecurity in Healthcare 4.0 (SecHealth2022).

Publicity Chair for the 3rd ACNS Workshop on Security in Mobile Technologies (SecMT 2022).

Program Committee member for the 3rd International Workshop on Security in Mobile Technologies (SecMT 2022).

Program Committee member for the 15th European Workshop on System Security (EuroSec 2022).

Program Committee member for the 2021 ACM Cloud Computing Security Workshop (CCSW 2021).

Program Committee member for the 16th International Workshop on Security (IWSEC 2021).

Program Committee member for the 14th European Workshop on System Security (EuroSec 2021).

Program Committee member for the 35th International Conference on Advanced Information Networking and Applications (AINA-2021).

Program Committee member for the 12th IEEE International Workshop on Information Forensics and Security (WIFS 2020).

Program Committee member for the 2020 ACM Cloud Computing Security Workshop (CCSW 2020).

Program Committee member for the 15th International Workshop on Security (IWSEC 2020).

Program Committee member for the 13th European Workshop on System Security (EuroSec 2020).

Program Committee member for the 2019 ACM Cloud Computing Security Workshop (CCSW 2019).

Program Committee member for the International workshop on Information & Operational Technology (IT & OT) security systems (IOSec 2019).

Program Committee member for the 14th International Workshop on Security (IWSEC 2019).

Program Committee member for the 12th European Workshop on System Security (EuroSec 2019).

Program Committee member for the 10th IEEE International Workshop on Information Forensics and Security (WIFS'18).

Program Committee member for the 13th International Workshop on Security (IWSEC 2018).

Program Committee member for the 11th European Workshop on System Security (EuroSec 2018).

Program Committee member for the 9th IEEE International Workshop on Information Forensics and Security (WIFS'17).

Program Committee member for 22nd IEEE Symposium on Computers and Communications (ISCC 2017).

Program Committee member for the 12th International Workshop on Security (IWSEC 2017).

Program Committee member for the 10th European Workshop on System Security (EuroSec 2017).
Program Committee member for the 8th IEEE International Workshop on Information Forensics and Security (WIFS'16).
Program Committee member for the 22nd IEEE International Conference on Parallel and Distributed Systems (ICPADS 2016).
Program Committee member for the 11th International Workshop on Security (IWSEC 2016).
Program Committee member for the 9th European Workshop on System Security (EuroSec 2016).
Publicity Chair for the 18th International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2015).
Technical Program Committee member for the 2015 IEEE JSAC Special issue on Measuring and Troubleshooting the Internet (JSAC-SI-MT).
Program Committee member for the 6th European Workshop on System Security (EuroSec 2013).
Program Committee member for the 5th European Workshop on System Security (EuroSec 2012).
Program Committee member for the 7th European Conference on Computer Network Defense (ec2nd 2011).

**Peer-reviewed
Conference
Publications**

Manos Pavlidakis, Giorgos Vasiliadis, Anargyros Argyros, Stelios Mavridis, Antony Chazapis, Angelos Bilas. Guardian: Safe GPU Sharing in Multi-Tenant Environments. In *Proceedings of the 25th ACM/IFIP International Middleware Conference (Middleware'24)*. December 2024, Hong Kong, China.

George Christou, Giorgos Vasiliadis, Apostolis Zarras, Sotiris Ioannidis. iVault: Architectural Code Concealing Techniques to Protect Cryptographic Keys. In *Proceedings of the International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation (SAMOS XXIV)*. July 2024, Samos, Greece.

Manos Pavlidakis, Stelios Mavridis, Antony Chazapis, Giorgos Vasiliadis, and Angelos Bilas. Arax: A Runtime Framework for Decoupling Applications from Heterogeneous Accelerators. In *Proceedings of the ACM Symposium on Cloud Computing (ACM SoCC)*. San Francisco, CA, USA. November 8-10, 2022.

Giorgos Vasiliadis, Rafail Tsirbas, and Sotiris Ioannidis. The Best of Many Worlds: Scheduling Machine Learning Inference on CPU-GPU Integrated Architectures. In *Proceedings of the 2022 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW2022)*. May 2022, Virtual Conference.

Dimitris Deyannis, Dimitris Karnikis, Giorgos Vasiliadis and Sotiris Ioannidis. Andromeda: Enabling Secure Enclaves For The Android Ecosystem. In *Proceedings of the 24th Information Security Conference (ISC)*. November 2021, Bali, Indonesia.

George Christou, Giorgos Vasiliadis, Elias Athanasopoulos and Sotiris Ioannidis. Hard edges: Hardware-based Control-Flow Integrity for Embedded Devices. In *International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation (SAMOS XXI)*. July 2021, Virtual Conference.

Nikolaos Chalkiadakis, Dimitris Deyannis, Dimitris Karnikis, Giorgos Vasiliadis and Sotiris Ioannidis. The Million Dollar Handshake: Secure and Attested Communications in the Cloud. In *2020 IEEE International Conference on Cloud Computing (IEEE CLOUD)*. October 2020, Beijing, China.

Giannis Giakoumakis, Eva Papadogiannaki, Giorgos Vasiliadis, Sotiris Ioannidis. Pythia: Scheduling of Concurrent Network Packet Processing Applications on Heterogeneous Devices. In *Proceedings of the 6th IEEE International Conference on Network Softwarization (NetSoft)*. July 2020, Ghent, Belgium.

Dimitris Deyannis, Dimitris Karnikis, Giorgos Vasiliadis, Sotiris Ioannidis. An Enclave Assisted Snapshot-based Kernel Integrity Monitor. In *Proceedings of the 3rd International Workshop on Edge Systems, Analytics and Networking (EdgeSys)*. April 2020, Heraklion, Greece.

Dimitris Deyannis, Eva Papadogiannaki, George Kalivianakis, Giorgos Vasiliadis, and Sotiris Ioannidis. TrustAV: Practical and Privacy Preserving Malware Analysis in the Cloud. In *Proceedings of the 10th ACM Conference on Data Application Security and Privacy (CODASPY)*. March 2020, New Orleans, LA, USA.

Ioannis Arapakis, Yolanda Becerra, Omer Boehm, George Bravos, Vassilis Chatzigiannakis, Cesare Cugnasco, Giorgos Demetriou, Iliada Eleftheriou, Julien Etienne Mascolo, Lidija Fodor, Sotiris Ioannidis, Dusan Jakovetic, Leonidas Kallipolitis, Evangelia Kavakli, Despina Kopanaki, Nicolas Kourtellis, Mario Maawad Marcos, Ramon Martin de Pozuelo, Nemanja Milosevic, Giuditta Morandi, Enric Pages Montanera, Gerald Ristow, Rizos Sakellariou, Raul Sirvent, Srdjan Skrbic, Ilias Spais, Giorgos Vasiliadis, and Michael Vinov. Towards Specification of a Software Architecture for Cross-Sectoral Big Data Applications. In *Proceedings of the 2019 IEEE World Congress on Services (SERVICES)*. July 2019, Milan, Italy.

Panagiotis Papadopoulos, Panagiotis Ilija, Michalis Polychronakis, Evangelos P. Markatos, Sotiris Ioannidis, Giorgos Vasiliadis. Master of Web Puppets: Abusing Web Browsers for Persistent and Stealthy Computation. In *Proceedings of the Network and Distributed System Security Symposium (NDSS)*. February 2019, San Diego, CA, USA.

Giorgos Vasiliadis, Dusan Jakovetic, Ilias Spais and Sotiris Ioannidis. I-BiDaaS: Industrial-Driven Big Data as a Self-Service Solution. In *Proceedings of the 7th European Conference on Service-Oriented and Cloud Computing (ESOCC)*. September 2018, Como, Italy.

Dimitris Deyannis, Rafail Tsirbas, Giorgos Vasiliadis, Raffaele Montella, Sokol Kosta, and Sotiris Ioannidis. Enabling GPU-assisted Antivirus Protection on Android Devices through Edge Offloading. In *Proceedings of the 1st International Workshop on Edge Systems, Analytics and Networking (EdgeSys)*. June 2018, Munich, Germany.

Panagiotis Papadopoulos, Giorgos Vasiliadis, George Christou, Evangelos Markatos and Sotiris Ioannidis. No sugar but all the taste! Memory Encryption without Architectural Support. In *Proceedings of the 22nd European Symposium on Research in Computer Security (ESORICS)*. September 2017, Oslo, Norway.

Michael Aupetit, Yury Zhauniarovich, Giorgos Vasiliadis, Marc Dacier, Yazan Boshmaf. Visualization of actionable knowledge to mitigate DRDoS attacks. In *Proceedings of the 13th IEEE Symposium on Visualization for Cyber Security (VizSec)*. October 2016, Baltimore, MD, USA.

Lazaros Koromilas, Giorgos Vasiliadis, Elias Athanasopoulos, 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, Paris, France.

Panagiotis Papadopoulos, Thanasis Petsas, Giorgos Christou and Giorgos Vasiliadis. MAD: A Middleware Framework for Multi-Step Attack Detection. In *Proceedings of the 4th International Workshop on Building Analysis Datasets and Gathering Experience Returns for Security (BADGERS)*. November 2015, Kyoto, Japan.

Evangelos Ladakis, Giorgos Vasiliadis, Michalis Polychronakis, Sotiris Ioannidis, and Georgios Portokalidis. GPU-Disasm: A GPU-based x86 Disassembler. In *Proceedings of the 18th Information Security Conference (ISC)*. September 2015, Trondheim, Norway.

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, AZ, USA.

Dimitris Deyannis, Lazaros Koromilas, Giorgos Vasiliadis, Elias Athanasopoulos and Sotiris Ioannidis. Flying Memcache: Lessons Learned from Different Acceleration Strategies. In *Proceedings of the 26th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD)*. October 2014, Paris, France.

Lazaros Koromilas, Giorgos Vasiliadis, Ioannis Manousakis and Sotiris Ioannidis. Efficient Software Packet Processing on Heterogeneous and Asymmetric Hardware Architectures. In *Proceedings of the 10th ACM/IEEE Symposium on Architecture for Networking and Communications Systems (ANCS)*. October 2014, Los Angeles, CA, USA.

Giorgos Vasiliadis, Lazaros Koromilas, Michalis Polychronakis, and Sotiris Ioannidis. GASPP: A GPU-Accelerated Stateful Packet Processing Framework. In *Proceedings of the USENIX Annual Technical Conference (USENIX ATC)*. June 2014, Philadelphia, PA, USA.

Evangelos Ladakis, Lazaros Koromilas, Giorgos Vasiliadis, Michalis Polychronakis, and Sotiris Ioannidis. You Can Type, but You Can't Hide: A Stealthy GPU-based Keylogger. In *Proceedings of the European Workshop on System Security (EuroSec)*. April 2013, Prague, Czech Republic.

Giorgos Vasiliadis, Michalis Polychronakis, and Sotiris Ioannidis. Parallelization and Characterization of Pattern Matching using GPUs. In *Proceedings of the IEEE International Symposium on Workload Characterization (IISWC)*. November 2011, Austin, TX, USA.

Giorgos Vasiliadis, Michalis Polychronakis, and Sotiris Ioannidis. MIDeA: A Multi-Parallel Intrusion Detection Architecture. In *Proceedings of the 18th ACM/SIGSAC Computer and Communications Security Conference (CCS)*. October 2011, Chicago, IL, USA.

Giorgos Vasiliadis, Michalis Polychronakis, and Sotiris Ioannidis. GPU-assisted Malware. In *Proceedings of the 5th IEEE International Conference on Malicious and Unwanted Software (MALWARE)*. October 2010, Nancy, France.

Giorgos Vasiliadis and Sotiris Ioannidis. GrAVity: A Massively Parallel Antivirus Engine. In *Proceedings of the 13th International Symposium On Recent Advances In Intrusion Detection (RAID)*. September 2010, Ottawa, Canada.

Giorgos Vasiliadis, Michalis Polychronakis, Spiros Antonatos, Evangelos P. Markatos and 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)*. September 2009, Saint-Malo, France.

Grigoris Antoniou, Antonis Bikakis, Polyvios Damianakis, Mixalhs Foukarakis, Giorgos Iacovidis, Marianna Karmazi, Haridimos Kondylakis, Antreas Makridakis, Giorgos Nikiforos, Grigoris Papadourakis, Manolis Papoutsakis, Aggeliki Psyharaki, Giorgos Stratakis, Panagiotis Tourlakis, Petros Tsialiamanis, Giorgos Vasiliadis, Gerd Wagner and Dimitris Velegrakis. A Multi-agent Environment for Serving Proof Explanations in the Semantic Web. In *Proceedings of the 5th Hellenic Conference on Artificial Intelligent (SETN)*, October 2008, Syros, Greece.

Giorgos Vasiliadis, Spiros Antonatos, Michalis Polychronakis, Evangelos P. Markatos and 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)*, September 2008, Boston, MA, USA.

**Peer-reviewed
Journal
Publications**

Giorgos Vasiliadis, Apostolis Karampelas, Alexandros Shevtsov, Panagiotis Papadopoulos, Sotiris Ioannidis and Alexandros Kapravelos. WRIT: Web Request Integrity and Attestation against Malicious Browser Extensions. In *IEEE Transactions on Dependable and Secure Computing*, vol. 21, no. 04, pp. 3082-3095, Jul.-Aug. 2024.

Giorgos Vasiliadis, Eleytheria Kiriakidi, and Costas Panagiotakis. A Worldwide Analysis of Top Scientists across Scientific Fields. In *Journal of Scientometric Research*, 13(1), 192-200, April 2024.

Giorgos Vasiliadis, Costas Panagiotakis, Iliana Stenaki, and John Fanourgiakis. The impact of brain-drain in country ranking: the case of computer science. In *Scientometrics* 128, no. 2 (2023): 1441-1450.

George Bravos, Antonio J. Cabrera, Camilo Correa, Dragan Danilovic, Nikolaos Evangeliou, Gilad Ezov, Zoran Gajica, Dusan Jakoveti, Leonidas Kallipolitis, Milan Lukic, Julien Mascolo, Davide Masera, Raul Mazo, Ivan Mezei, Andreas Miaoudakis, Nemanja Milosevic, William Oliff, Jacques Robin, Michail Smyrlis, Georgia Sakellari, Giorgos Stamatis, Dusan Stamenkovic, Srdan Skrbic, Carine Souveyet, Spyridon Vantolas, Giorgos Vasiliadis, Dejan Vukobratovic. Cybersecurity for Industrial Internet of Things: Architecture, Models and Lessons Learned. In *IEEE Access*, Volume 10, Pages 124747-124765, November 2022.

Giannis Giakoumakis, Eva Papadogiannaki, Giorgos Vasiliadis, Sotiris Ioannidis. Scheduling of multiple network packet processing applications using Pythia. In *Computer Networks*, Volume 212, July 2022.

George Christou, Giorgos Vasiliadis, Vassilis Papaefstathiou, Antonis Papadogiannakis, Sotiris Ioannidis. On Architectural Support for Instruction Set Randomization. In *ACM Transactions on Architecture and Code Optimization*, Volume 17, Issue 4, Article 36, December 2020.

Eva Papadogiannaki, Lazaros Koromilas, Giorgos Vasiliadis, Sotiris Ioannidis. Efficient Software Packet Processing on Heterogeneous and Asymmetric Hardware Architectures. In *IEEE/ACM Transactions on Networking*, Volume 25, Issue 3, June 2017.

Giorgos Vasiliadis, Lazaros Koromilas, Michalis Polychronakis, Sotiris Ioannidis. Design and Implementation of a Stateful Network Packet Processing Framework for GPUs. In *IEEE/ACM Transactions on Networking*, Volume 25, Issue 1, February 2017.

Giorgos Vasiliadis, Michalis Polychronakis, and Sotiris Ioannidis. GPU-assisted Malware. In *International Journal of Information Security*, Volume 14, Issue 3, Page 289-297, 2015.

Antonis Papadogiannakis, Giorgos Vasiliadis, Demetres Antoniadis, Michalis Polychronakis, Evangelos P. Markatos. Improving the Performance of Passive Network Monitoring Applications with Memory Locality Enhancements. In *Computer Communications*, Volume 35, Issue 1, Pages 129-140, January 2012.

Book Chapters

Big Data Analytics in the Banking Sector: Guidelines and Lessons Learned from the CaixaBank Case. Andreas Alexopoulos, Yolanda Becerra, Omer Boehm, George Bravos, Vasilis Chatzigiannakis, Cesare Cugnasco, Giorgos Demetriou, Iliada Eleftheriou, Lidija Fodor, Spiros Fotis, Sotiris Ioannidis, Dusan Jakovetic, Leonidas Kallipolitis, Vlatka Katusic, Evangelia Kavakli, Despina Kopanaki, Christoforos Leventis, Mario Maawad Marcos, Ramon Martin de Pozuelo, Miquel Martnez, Nemanja Milosevic, Enric Pere Pages Montanera, Gerald Ristow, Hernan Ruiz-Ocampo, Rizos Sakellariou, Ral Sirvent, Srdjan Skrbic, Ilias Spais, Giorgos Vasiliadis and Michael Vinov. In Ed. Curry et al. (eds) *Technologies and Applications for Big Data Value Open Access Book*, 2022.

Big Data Analytics in the Manufacturing Sector: Guidelines and Lessons Learned through the CRF

Case. Andreas Alexopoulos, Yolanda Becerra, Omer Boehm, George Bravos, Vasilis Chatzigiannakis, Cesare Cugnasco, Giorgos Demetriou, Iliada Eleftheriou, Spiros Fotis, Gianmarco Genchi, Sotiris Ioannidis, Dusan Jakovetic, Leonidas Kallipolitis, Vlatka Katusic, Evangelia Kavakli, Despina Kopanaki, Christoforos Leventis, Miquel Martinez, Julien Mascolo, Nemanja Milosevic, Enric Pere Pages Montanera, Gerald Ristow, Hernan Ruiz-Ocampo, Rizos Sakellariou, Ral Sirvent, Srdjan Skrbic, Ilias Spais, Giuseppe Danilo Spennacchio, Dusan Stamenkovic, Giorgos Vasiliadis and Michael Vinov. In Ed. Curry et al. (eds) Technologies and Applications for Big Data Value Open Access Book, 2022.

The Evolution of Hardware-Assisted Security. Giorgos Christou, Giorgos Vasiliadis, Elias Athanopoulos, and Sotiris Ioannidis. In Leandros Maglaras and Ioanna Kantzavelou (eds) Cybersecurity Issues in Emerging Technologies. CRC Press ISBN 9780367626174, October 15, 2021.

Giorgos Vasiliadis (March 13th 2019). Security Applications of GPUs, High Performance Parallel Computing, Satyadhyan Chickerur, IntechOpen, DOI: 10.5772/intechopen.81885. Available from: <https://www.intechopen.com/books/high-performance-parallel-computing/security-applications-of-gpus>

Theses and Technical Reports Giorgos Vasiliadis. Accelerating Network Packet Processing Using Graphics Hardware. *Doctoral Dissertation, University of Crete*, December 2014.

Giorgos Vasiliadis. Improving the Performance of Network Intrusion Detection Systems Using Graphics Processors. *Master Thesis, University of Crete*, November 2008.

Panagiotis Papadakis, Giorgos Vasiliadis, Yannis Theoharis, Nikos Armenatzoglou, Stella Kopidaki, Yannis Marketakis, Manos Daskalakis, Kostas Karamaroudis, Giorgos Linardakis, Giannis Makrydakis, Vangelis Papathanasiou, Lefteris Sardis, Petros Tsialiamanis, Georgia Troullinou, Kostas Vandikas, Dimitris Velegrakis and Yannis Tzitzikas. The Anatomy of Mitos Web Search Engine. In *CoRR, Information Retrieval, abs/0803.2220*, March 2008.

Invited Talks C4IIoT - Cyber security 4.0: protecting the Industrial Internet Of Things. Talk at the 3rd Workshop on Cyber-Security Arms Race (CYSARM). November 2021. Virtual Conference.

Security applications of GPUs. Seminar talk at the Cybersecurity and Privacy (CySeP) Summer School, June 2018, Stockholm, Sweden.

Security applications of GPUs: The Good, the Bad, and the Ugly. Keynote Talk. European Workshop on System Security (EuroSec), April 2015, Bordeaux, France.

PixelVault: Using GPUs for securing cryptographic operations. Free and Open Source Software Developers' European Meeting (FOSDEM), February 2015, Brussels, Belgium.

Signature-based Malware Detection using GPUs. Symantec Research Labs, April 2013, Culver City, CA, USA.

Press Selected Articles on our HTML5 Browser-based botnet

- ZDNet. New browser attack lets hackers run bad code even after users leave a web page. Catalin Cimpanu, February 2019.
- DARKReading. Researchers Build Framework for Browser-Based Botnets: HTML5 used to build persistent malware on victims' computers. Curtis Franklin Jr., February 2019.

Selected Articles on our stealthy GPU-based keylogger

- BLEEPINGCOMPUTER. Cybercriminal sells tool to hide malware in AMD, NVIDIA GPUs. Ionut Ilascu, August 2021.
- PCGAMER. AMD, Nvidia, and Intel GPUs could be capable of hosting malicious code. Jacob Ridley, August 2021.
- The Register. Infosec bods demo GPU keylogger. Don't tell the NS... oh, wait. John Leyden, May 2015.
- Ars Technica. GPU-based rootkit and keylogger offer superior stealth and computing power. Dan Goodin, May 2015.
- ComputerWorld. New Linux rootkit leverages GPUs to hide. Lucian Constantin, May 2015.
- PCWorld. New Linux rootkit leverages graphics cards for stealth. Lucian Constantin, May 2015.
- ExtremeTech. Proof-of-concept GPU rootkit hides in VRAM, snoops system activities. Joel Hruska, May 2015.
- SecurityAffaris. GPU-based malware, the evolution of rootkits and keyloggers. Pierluigi Paganini, May 2015.

Selected Articles on using GPUs for Intrusion Detection and Malware Scanning

- The Inquirer. Sotiris Ioannidis of FORTH-ICS on using GPUs for intrusion detection. Wendy M. Grossman, January 2011.
- ICAEW. Using GrAVity to defeat viruses. Leo Waldock, August 2010.

Selected Articles on our GPU-assisted Malware study

- The Register. Researchers up evilness ante with GPU-assisted malware - Coming to a PC near you. Dan Goodin, September 2010.
- Slashdot. Malware Running On Graphics Cards. September 2010.
- HotHardware. New Whitepaper Claims GPUs Threaten Malware Security. Joel Hruska, September 2010.
- HardOCP. GPU Assisted Malware.