

Dimitris Mitropoulos

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Current Position(s)

- *Assistant Professor*, National and Kapodistrian University of Athens
 - *Head of the Reliability Engineering*, National Infrastructures for Research and Technology (GRNET)
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Areas of Specialization

- Software Engineering
 - Computer Security
 - Business Analytics
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Education

Sep. 2008 - Mar. 2014	PhD in Computer Security, Athens University of Economics and Business Thesis: Secure Software Development Technologies Advisor: Prof. Diomidis Spinellis
Sep. 2005 - Feb. 2007	MSc in Information Systems, Athens University of Economics and Business Thesis: Countering SQL Injection Attacks with a Database Driver Advisor: Prof. Diomidis Spinellis
Sep. 2000 - Sep. 2005	BSc in Informatics and Telecommunications, National and Kapodistrian University of Athens Thesis: A Prediction Algorithm in Mobile Computing Advisor: Prof. Stathes Hadjiefthymiades

Work Experience

Apr. 2021 - Today	Assistant Professor, National and Kapodistrian University of Athens <i>Department of Business Administration.</i>
Oct. 2020 - Apr. 2021	Adjunct Faculty, National and Kapodistrian University of Athens Teaching the “Introduction to Informatics” undergraduate course at the <i>Department of Business Administration.</i>
Oct. 2016 - Today	Head of the Reliability Engineering Directorate, GRNET SA Leading GRNET’s Reliability Engineering directorate. The directorate is responsible for the reliable and secure operation of the entire infrastructure and includes several teams such as the <i>Site</i> and <i>Network</i> Reliability Engineering groups, the organization’s CERT (Computer Emergency Response Team), the <i>Identity</i> management team, and the HPC (High-performance Computing) group. Also involved in various R&D projects including:

- **essif-Lab**: European Self Sovereign Identity Framework Laboratory (HORIZON 2020, ref. number: 871932).
- **PRIVILEGE**: Privacy-Enhancing Cryptography in Distributed Ledgers (HORIZON 2020, ref. number: 780477).
URL: <http://priviledge-project.eu>
- **CERTCOOP**: Trans-European and Greek CERTS collaboration project (CEF-TC-2016-3, ref. number: 2016-EL-IA-0123).
URL: <http://certcoop.eu/>
- **PANORAMIX**: Privacy and Accountability in Networks via Optimized Randomized Mix-nets (HORIZON 2020, ref. number: 653497).
URL: <https://panoramix-project.eu/>
- **TREDISEC**: Trust-aware, Reliable and Distributed Information Security in the Cloud (HORIZON 2020, ref. number: 644412).
URL: <http://www.tredisec.eu/>

Oct. 2016 - Today

Researcher, Adjunct Faculty, Athens University of Economics and Business

Research on various topics in the area of computer security and software engineering. Teaching two undergraduate courses, namely “Introduction to Informatics” and “Software Robustness and Security”, at the *Department of Management Science and Technology*. Also involved in the following research project:

- **FASTEN**: Fine-Grained Analysis of Software Ecosystems as Networks. (HORIZON 2020, ref. number: 825328).
URL: <https://www.fasten-project.eu/>

Feb. 2017 - Sep. 2018

Adjunct Faculty, National and Kapodistrian University of Athens

Teaching the “Computer Security” undergraduate course at the *Department of Informatics and Telecommunications*.

Sep. 2014 - Sept. 2016

Post-doctoral Researcher, Columbia University in the City of New York

Research on various topics in the areas of computer security.

Also participated in the following projects:

- **VPSN**: Virtual Private Social Networks (National Science Foundation – NSF, ref. number: 1318415),
URL: <http://nsl.cs.columbia.edu/projects/vpsn/>
- **MEERKATS**: Maintaining Enterprise Resiliency via Kaleidoscopic Adaptation and Transformation of Software Services (Defense Advanced Research Projects Agency – DARPA, ref. number: FA8650-11-C-7190),
URL: <http://nsl.cs.columbia.edu/projects/meerkats/>

Mar. 2014 - Aug. 2014

Post-doctoral Researcher, Athens University of Economics and Business

Research on various topics in the areas of computer security and software engineering.

Apr. 2011 - Oct. 2014

Project Manager, Researcher, Athens University of Economics and Business

- **TRACER**: Identifying Software Vulnerabilities and Securing Legacy Systems (General Secretariat of Research and Technology, GR, ref. number: 09SYN-72-942).
URL: <http://www.tracer-project.gr/>

Feb. 2011 - May 2011

Software Engineer, GRNET SA

Developed a “What You See Is What You Get” (WYSIWYG) editor for Wikipedia. Also attended the Wikimedia Hackathon 2011, held at Berlin.

URL: <https://code.grnet.gr/projects/wikipedia-wysiwyg/wiki>

Dec. 2010

Security Engineer, GRNET SA

Tested the security and usability of the Greek portal for educational, open source software.

URL: <http://opensci.grnet.gr/>

Nov. 2009 - Nov. 2010

Security Consultant, Hellenic National Defense General Staff, Department of Cyber Defense

Participation and security incident analysis in NATO’s international cyber defense exercise (November 2009) and in the national cyber defense exercise “Panoptis 2010”.

Jul. 2008 - Jul. 2010

Software Engineer, SingularLogic SA

- SOPRANO: Service Oriented Programmable Smart Environments for Older Europeans (FP6-IST, ref. number: 045212).
URL: http://cordis.europa.eu/project/rcn/80527_en.html

Aug. 2007 – Aug. 2008

Software Engineer, Research and Informatics Corps
Greek army informatics corps - *mandatory conscription service*. Participated in the development of the main portal of the Hellenic national defense general staff and the unified automated system of information of the Greek military.

Feb. 2007 - Jul. 2007

Researcher, Athens University of Economics and Business

- sqo-oss: Software Quality Observatory for Open Source Software (FP6-IST, ref. number: 033331).
URL: http://cordis.europa.eu/project/rcn/79362_en.html

Grants, Honors and Awards

May 2021

Best Artifact Award. Our replication package for the paper “Data-oriented differential testing of object-relational mapping systems” was awarded by the organizing committee of the 43rd International Conference on Software Engineering (ICSE '21): Artifact Evaluation Track, with the “Best Artifact Award” distinction.

July 2020

Attending the 46th anniversary of the restoration of democracy in Greece. Representing GRNET at the anniversary of the restoration of democracy that took place at the Presidential Palace. The invitation was sent to honor the organization for its major role in Greece’s digital transformation during the COVID-19 outbreak.

May 2018

Best Data Showcase Award. The paper “Vulinoss: A Dataset of Security Vulnerabilities in Open-source Systems” was awarded by the organizing committee of the Mining Software Repositories (MSR) Conference 2018, with the “Best Data Showcase Award” distinction.

Nov. 2016

Postdoctoral Research Funding Scholarship: Action II. Financed by the Athens University of Economics and Business (AUEB) to support postdoctoral research. Ref. number: EP-2606-01/00-01.

Jul. 2014

Postdoctoral Research Funding Scholarship: Action II. Financed by the Athens University of Economics and Business (AUEB) to support postdoctoral research. Ref. number: EP-2166-01/01-01.

Oct. 2013

LASER Workshop Scholarship. The award was given by the organizing committee of the “Learning from Authoritative Security Experiment Results” (LASER) Workshop 2013. The committee makes available to students a limited number of scholarships to participate in the workshop and present their work (covering registration fee, travel costs and others).

Apr. 2012

Highly Commended Paper Award Winner 2012. The paper “Countering code injection attacks: a unified approach” (Information Management and Computer Security, 19(3):177-194, 2011) was awarded by Emerald publishers with the “Highly Commended Award” distinction. The award was given by the journal’s editorial board to three papers as part of the “Literati Network Awards for Excellence 2012”.

Sep. 2010

PhD Scholarship / Research Funding Program: Heracleitus II. Co-financed by the European Union (European Social Fund | ESF) and Greek national funds through the Operational Program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF). Ref. number: 4-15-6.

Scientific, Professional, and Technical activities

MEMBERSHIPS OF PROFESSIONAL AND LEARNED SOCIETIES

- ACM Member
- IEEE Member
- Official reviewer for the ACM Computing Reviews

- SysSec (the Network of Excellence in the field of Systems Security for Europe) Member
- OWASP (Open Web Application Security Project) Member
- GRNOG (Greek Network Operators Group) Member

TEACHING

2020-2021, Fall	Adjunct Lecturer, “Introduction to Informatics”, Undergraduate Course. Department of Business Administration, National and Kapodistrian University of Athens.
2019-2020, Spring	Adjunct Lecturer, “Software Robustness and Security”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2019-2020, Fall	Adjunct Lecturer, “Introduction to Informatics”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2018-2019, Spring	Adjunct Lecturer, “Software Robustness and Security”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2018-2019, Fall	Adjunct Lecturer, “Introduction to Informatics”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2017-2018, Spring	Adjunct Lecturer, “Computer Security”, Undergraduate Course. Department of Informatics and Telecommunications, National and Kapodistrian University of Athens.
2017-2018, Spring	Adjunct Lecturer, “Software Robustness and Security”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2017-2018, Fall	Adjunct Lecturer, “Introduction to Informatics”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2016-2017, Spring	Adjunct Lecturer, “Computer Security”, Undergraduate Course. Department of Informatics and Telecommunications, National and Kapodistrian University of Athens.
2016-2017, Spring	Adjunct Lecturer, “Software Robustness and Security”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2017	Senior Instructor, 2nd Coding Bootcamp for Professionals. Teaching data structures, concurrent programming and secure programming. Organized by the Athens University of Economics and Business, the Council of European Professional Informatics Societies and the Hellenic Professionals Informatics Society.
2016	Senior Instructor, 1st Coding Bootcamp for Professionals. Teaching data structures, concurrent programming and secure programming. Organized by the Athens University of Economics and Business, the Council of European Professional Informatics Societies and the Hellenic Professionals Informatics Society.
2013-2014, Fall	Teaching Assistant, “Information Systems Design and Implementation”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.
2012-2013, Fall	Teaching Assistant, “Information Systems Design and Implementation”, Undergraduate Course. Department of Management Science and Technology, Athens University of Economics and Business.

CONFERENCE PROGRAM COMMITTEE MEMBER

Aug. 2021	The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Student Volunteer Chair.
Aug. 2021	The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Industry Track. Athens, Greece.
Aug. 2021	The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Doctoral Symposium. Athens, Greece.
June 2021	The ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), Artifact Track. Virtual Conference.
May 2021	Mining Software Repositories (MSR) Conference, Technical Track. Madrid, Spain.

Apr. 2021	European Workshop on Systems Security (EuroSec). Edinburgh, Scotland, UK.
Nov. 2020	The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Artifact Track. Sacramento, USA.
Aug. 2020	Euromicro Conference on Software Engineering and Advanced Applications (SEAA). Chalkidiki, Greece.
Apr. 2020	European Workshop on Systems Security (EuroSec). Heraklion, Crete, Greece.
May 2020	Mining Software Repositories (MSR) Conference, Technical Track. Seoul, South Korea.
May 2020	Mining Software Repositories (MSR) Conference, Data Showcase Track. Seoul, South Korea.
Nov. 2016	The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Tool Demonstrations Track. Seattle, USA.
Jul. 2012	Open Web Application Security Project (OWASP) AppSec Research Conference. Athens, Greece
Jun. 2010	AthCon Highly Technical Security Conference in Athens, Greece.

SELECTED PUBLIC SOFTWARE CONTRIBUTIONS

- The following is a list of software authored and made available over the Web as open-source software:
 1. *nsign* is a mechanism that is placed in the JavaScript engine of Mozilla Firefox and protects Web users from Cross-site Scripting attacks. To do so, it generates unique identifiers for each script that reaches the engine during a training phase. Specifically, it collects and combines elements coming from either the script that is about to be executed or from the execution environment. After the generation of the identifier is done, the identifier is stored in an auxiliary table. During production, *nsign* follows the same steps until it generates the identifier. Then, it checks if the identifier exist in the aforementioned table. If it does not the script is malicious and the Web user is under attack.
URL: <https://github.com/istlab/nsign>
 2. *VirusTotalBridge* is a collection of Python scripts that help users to perform bulk uploads to (and retrieve the corresponding results from) the VirusTotal¹ service.
URL: <https://github.com/dimitrop/VirusTotalBridge>
 3. *schemeInterp* is a small and efficient Lisp interpreter, written in Scheme.
URL: <https://github.com/dimitrop/schemeInterp>
 4. *Inline Editor* is a WYSIWYG editor for modifying wiki pages. Such editors provide the ability to directly manipulate the layout of a wiki page without having to type or remember the layout commands needed for the editing.
URL: <https://code.grnet.gr/projects/wikipedia-wysiwyg/wiki>
 5. *SDriver* is a type 4 JDBC driver and it must be placed between the application and its underlying database. To prevent an attack, the driver uses stripped-down queries and stack traces to create unique identifiers that are then used to distinguish between injected and legitimate queries. It depends neither on the application nor on the RDBMS and can be easily retrofitted to any system.
URL: <https://github.com/dimitrop/SDriver>
- Also contributed to the implementations of several mix networks (a.k.a mix-nets):
 1. Took part in the implementation of a mix-net presented by Fauzi et al. in their paper: “An Efficient Pairing-Based Shuffle Argument” appeared in the Proceedings of ASIACRYPT 2017.
URL: https://github.com/grnet/hat_shuffle
 2. Served as a mentor for the Google Summer of Code (GSoC) program (2017) and supervised the implementation of a re-encryption mix-net.
URL: <https://github.com/eellak/gsoc17module-zeus>

¹<https://www.virustotal.com/>

Publications

JOURNAL ARTICLES

1. Dimitris Mitropoulos, Thodoris Sotiropoulos, Nikos Koutsovasilis and Diomidis Spinellis. PDGuard: An architecture for the control and secure processing of personal data. *International Journal of Information Security*, 19(4):479–498, 2020.
2. Dimitris Mitropoulos, Panos Louridas, Michalis Polychronakis, and Angelos D. Keromytis. Defending against Web application attacks: Approaches, challenges and implications. *IEEE Transactions on Dependable and Secure Computing*, 16(2):188–203, March 2019.
3. Konstantina Dritsa, Dimitris Mitropoulos, and Diomidis Spinellis. Aspects of the history of computing in modern Greece. *IEEE Annals of the History of Computing*, 40(1):47–60, May 2018.
4. Dimitris Mitropoulos and Diomidis Spinellis. Fatal injection: A survey of modern code injection attack countermeasures. *PeerJ Computer Science* journal, pages e136, November 2017.
5. Vaggelis Atlidakis, Jeremy Andrus, Roxana Geambasu, Dimitris Mitropoulos, and Jason Nieh. Is POSIX becoming outdated? *USENIX ;login: Magazine*, 41(3), Fall 2016.
6. Dimitris Mitropoulos, Kostantinos Stroggylos, Diomidis Spinellis, and Angelos D. Keromytis. How to train your browser: Preventing xss attacks using contextual script fingerprints. *ACM Transactions on Privacy and Security*. 19(1):2:1–2:31, August 2016.
7. Maria Kechagia, Dimitris Mitropoulos and Diomidis Spinellis. Charting the API minefield using software telemetry data. *Empirical Software Engineering*, 20(6):1785–1830, December 2015.
8. Vassilios Karakoidas, Dimitris Mitropoulos, Panagiotis Louridas and Diomidis Spinellis. A type-safe embedding of SQL into Java using the extensible compiler framework j%. *Computer Languages, Systems and Structures*, 41:1–20, April 2015.
9. Dimitris Mitropoulos, Vassilios Karakoidas, Panagiotis Louridas, and Diomidis Spinellis. Countering code injection attacks: A unified approach. *Information Management and Computer Security*, 19(3): 177–194, 2011. Highly Commended Paper Award.
10. Dimitris Mitropoulos and Diomidis Spinellis. sdriver: Location-specific signatures prevent SQL injection attacks. *Computers & Security*, 28:121–129, May 2009.

BOOK CHAPTERS

1. Dimitris Mitropoulos, Theodosios Tsaklanos and Diomidis Spinellis, Secure Software Technologies, In Sokratis Katsikas, Stefanos Gritzalis and Konstantinos Lambrinouidakis, editors, *Information and System Security in the Cyberspace*. NewTech Pub, 2021. In Greek.
2. Dimitris Mitropoulos, Securing software, In Phillip A. Laplante, editor, *Encyclopedia of Computer Science and Technology, Second Edition*. CRC Press, Taylor and Francis Group, 2016.

CONFERENCE AND WORKSHOP PUBLICATIONS

1. Thodoris Sotiropoulos, Stefanos Chaliasos, Vaggelis Atlidakis, Dimitris Mitropoulos and Diomidis Spinellis. Data-oriented differential testing of object-relational mapping systems. In *Proceedings of the 43rd International Conference on Software Engineering (ICSE '21): Technical Track*. To appear.
2. Vitalis Salis, Thodoris Sotiropoulos, Panos Louridas, Diomidis Spinellis, Dimitris Mitropoulos. PyCG: Practical call graph generation in Python. In *Proceedings of the 43rd International Conference on Software Engineering (ICSE '21): Technical Track*. To appear.
3. Thodoris Sotiropoulos, Stefanos Chaliasos, Dimitris Mitropoulos and Diomidis Spinellis. A Model for Detecting Faults in Build Specifications. In *Proceedings of the ACM on Programming Languages*, Volume 4, Issue OOPSLA (part of SPLASH 2020). Article No. 144. November 2020.

4. Thodoris Sotiropoulos, Dimitris Mitropoulos and Diomidis Spinellis. Practical fault detection in Puppet programs. In *Proceedings of the 42nd International Conference on Software Engineering (ICSE '20)*: Technical Track. Pages 26–37. ACM, June 2020.
5. Stefanos Chaliasos, George Metaxopoulos, George Argyros and Dimitris Mitropoulos. Mime artist: Bypassing whitelisting for the Web with JavaScript mimicry attacks. In *Proceedings of the 24th European Symposium on Research in Computer Security (ESORICS '19)*, pages 565–585. Springer, September 2019.
6. Dimitris Mitropoulos, Panos Louridas, Vitalis Salis and Diomidis Spinellis. Time present and time past: Analyzing the evolution of JavaScript code in the wild. In *Proceedings of the 16th International Conference on Mining Software Repositories (MSR '19)*: Technical Track, pages 126–137. IEEE, May 2019.
7. Linos Giannopoulos, Eirini Degkleri, Panayiotis Tsanakas and Dimitris Mitropoulos. Pythia: Identifying dangerous data-flows in Django-based applications. In *Proceedings of the 12th European Workshop on Systems Security (EuroSec '19)*, Article No. 5. ACM, March 2019.
8. Antonios Gkortzis, Dimitris Mitropoulos, and Diomidis Spinellis. Vulinoss: A dataset of security vulnerabilities in open-source systems. In *Proceedings of the 15th International Conference on Mining Software Repositories (MSR '18)*: Data Showcase Track. ACM, May 2018. Best Data Showcase Award
9. Vaggelis Atlidakis, Jeremy Andrus, Roxana Geambasu, Dimitris Mitropoulos, and Jason Nieh. posix abstractions in modern operating systems: The old, the new, and the missing. In *Proceedings of the 11th European Conference on Computer Systems (EuroSys '16)*, pages 19:1–19:17. ACM, April 2016.
10. Vassilios Karakoidas, Dimitris Mitropoulos, Panos Louridas, Georgios Gousios and Diomidis Spinellis. Generating the blueprints of the Java ecosystem. In *Proceedings of the 2015 International Working Conference on Mining Software Repositories (MSR '15)*: Data Showcase Track, pages 510–513. IEEE Computer Society, May 2015.
11. Dimitrios Mitropoulos, Georgios Gousios, Panagiotis Papadopoulos, Vasilios Karakoidas, Panos Louridas, and Diomidis Spinellis. The vulnerability dataset of a large software ecosystem. In *Proceedings of the 3rd International Workshop on Building Analysis Datasets and Gathering Experience Returns for Security (BADGERS '14)*. IEEE Computer Society, September 2014.
12. Konstantinos Stroggylos, Dimitris Mitropoulos, Zacharias Tzermias, Panagiotis Papadopoulos, Fotios Rafailidis, Diomidis Spinellis, Panagiotis Katsaros, and Sotiris Ioannidis. Securing legacy code with the TRACER platform. In *Proceedings of 18th Panhellenic Conference on Informatics (PCI '14)*, pages 25:1–25:6. ACM, October 2014.
13. Konstantinos Stroggylos, Dimitris Mitropoulos, Zacharias Tzermias, Panagiotis Papadopoulos, Fotios Rafailidis, Diomidis Spinellis, Panagiotis Katsaros, and Sotiris Ioannidis. TRACER: A platform for securing legacy code. In *Proceedings of 7th International Conference on Trust & Trustworthy Computing (TRUST '14)*: Poster Presentation Track, pages 218–219. Springer, June 2014.
14. Dimitris Mitropoulos, Vassilios Karakoidas, Panos Louridas, Georgios Gousios, and Diomidis Spinellis. The bug catalog of the Maven ecosystem. In *Proceedings of the 2014 International Working Conference on Mining Software Repositories (MSR '14)*: Data Showcase Track, pages 372–365. ACM, May 2014.
15. Maria Kechagia, Dimitris Mitropoulos, and Diomidis Spinellis. Improving the quality of APIs through the analysis of software crash reports. In *2013 Imperial College Computing Student Workshop (OASICS '13)*, pages 57–64, September 2013.
16. Dimitris Mitropoulos, Vassilios Karakoidas, Panos Louridas, Georgios Gousios, and Diomidis Spinellis. Dismal code: Studying the evolution of security bugs. In *Proceedings of the LASER Workshop 2013, Learning from Authoritative Security Experiment Results*, pages 37–48. Usenix Association, October 2013.
17. Dimitris Mitropoulos, Georgios Gousios, and Diomidis Spinellis. Measuring the occurrence of security-related bugs through software evolution. In *Proceedings of 16th Panhellenic Conference*

- on *Informatics*, pages 117–122. IEEE Computer Society, October 2012.
18. Konstantinos Kravvaritis, Dimitris Mitropoulos, and Diomidis Spinellis. Cyberdiversity: Measures and initial results. In *Proceedings of 14th Panhellenic Conference on Informatics (PCI '10)*, pages 135–140. IEEE Computer Society, September 2010.
 19. Dimitris Mitropoulos and Diomidis Spinellis. Securing e-voting against MITM attacks. In *Proceedings of 14th Panhellenic Conference on Informatics*, September 2009.
 20. Dimitris Mitropoulos, Vassilios Karakoidas, and Diomidis Spinellis. Fortifying applications against xpath injection attacks. In *Proceedings of the 4th Mediterranean Conference on Information Systems, (MCIS '09)*, pages 1169–1179, September 2009.
 21. Dimitris Mitropoulos and Diomidis Spinellis. Countering SQL injection attacks with a database driver. In *Proceedings of 11th Panhellenic Conference on Informatics (PCI '07)*, volume B, pages 105–115. New Technologies Publications, May 2007.

MAGAZINE ARTICLES

1. Dimitris Mitropoulos. How 1 million app calls can tell you a bit about malware. *XRDS: Crossroads, The ACM Magazine for Students* 24(1):17–19, 2017.
2. Dimitris Mitropoulos, On the evolution of security bugs. *XRDS: Crossroads, The ACM Magazine for Students*, 21(3):18–19, 2015.
3. Dimitris Mitropoulos, Data security in the cloud environment. *XRDS: Crossroads, The ACM Magazine for Students*, 19(3):11–11, 2013.
4. Dimitris Mitropoulos, Security bugs in large software ecosystems. *XRDS: Crossroads, The ACM Magazine for Students*, 20(2):15–16, 2013.
5. Dimitris Mitropoulos, Fatal injection: the server’s side. *XRDS: Crossroads, The ACM Magazine for Students*, 19(2):12–14, 2012.
6. Dimitris Mitropoulos, How secure is your software? *XRDS: Crossroads, The ACM Magazine for Students*, 19(1):11–13, 2012.
7. Dimitris Mitropoulos, Better safe than sorry: Backup your backups. *XRDS: Crossroads, The ACM Magazine for Students*, 18(2):6–6, 2012.

TECHNICAL REPORTS

1. Theofilos Petsios, Adrian Tang, Dimitris Mitropoulos, Salvatore J. Stolfo, Angelos D. Keromytis, Suman Jana. Tug-of-War: Observations on unified content handling. Technical Report. [CORR abs/1708.09334](https://arxiv.org/abs/1708.09334) (2017).
2. Roxana Geambasu, Dimitris Mitropoulos, Simha Sethumadhavan Junfeng Yang, Angelos Stravrou, Dan Fleck, Matthew Elder and Azzedine Benameur. Maintaining Enterprise Resiliency via Kaleidoscopic Adaption and Transformation of Software Services (MEERKATS). Technical Report. Air Force Research Laboratory, Sensors Directorate, Wright-Patterson, Air Force Base, OH 45433-7320, Air Force Materiel Command, United States Air Force. April 2016

ACADEMIC REVIEWS

Reviews have been provided for the following conferences and journals:

1. Journal of Systems and Software *JSS*, Elsevier, 2020.
2. European Symposium on Research in Computer Security (ESORICS), 2020.
3. Journal of Systems and Software, Elsevier, 2020.
4. IEEE Cloud Computing, 2020.
5. IEEE Software, 2019.
6. International Journal of Information Security, Springer, 2019.
7. IEEE Cloud Computing, 2019.

8. ACM Transactions on Privacy and Security, ACM, 2017.
9. IEEE International Conference on Software Analysis, Evolution, and Re-engineering (SANER), 2017.
10. FSE 2016: ACM SIGSOFT International Symposium on the Foundations of Software Engineering, 2016.
11. International Journal of Information Security, Springer, 2016.
12. ACM Computing Surveys, ACM, 2015.
13. International Journal of Information Security, Springer, 2015.
14. Conference on Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA), 2015.
15. IEEE Communications Letters, IEEE, 2015.
16. IET Information Security, Institution of Engineering and Technology, 2015.
17. Encyclopedia of Computer Science and Technology, Taylor and Francis, 2014.
18. IEEE Communications Letters, IEEE, 2014.
19. IET Information Security, Institution of Engineering and Technology, 2014.
20. European Conference on Software Maintenance and Re-engineering (CSMR), 2013.
21. Panhellenic Conference on Informatics (PCI), 2013.
22. Open Web Application Security Project (OWASP), AppSec Research Conference, 2012.
23. Panhellenic Conference on Informatics (PCI), 2011.
24. Panhellenic Conference on Informatics (PCI), 2010.
25. European Conference on Object-Oriented Programming (ECOOP), 2009.
26. International Conference on Software Engineering (ICSE), 2009.
27. European Conference on Computer Network Defense (EC2DN), 2008.
28. International Symposium on Information Security (IS) under the umbrella “On-TheMove”, 2008.
29. Panhellenic Conference on Informatics (PCI), 2008.
30. Cluster Computing, Springer, 2008.

INVITED TALKS

Feb. 2020	Application security: Vulnerabilities and countermeasures. Hellenic Republic - Ministry of Foreign Affairs.
Apr. 2019	Time present and time past: Analyzing the evolution of JavaScript code in the wild. National Technical University of Athens, School of Electrical and Computer Engineering. Athens, GR.
Mar. 2019	Securing the operations and services of the Greek research and technology network. National Centre of Scientific Research Demokritos, Institute of Informatics and Telecommunications. Athens, GR.
Feb. 2019	Time present and time past: Analyzing the evolution of JavaScript code in the wild. University of the Aegean, Department of Information and Communication Systems Engineering. Athens, GR.
Dec. 2016	How to train your browser: Preventing xss attacks using contextual script fingerprints. Athens University of Economics and Business, Department of Management Science and Technology, Athens, GR.
Nov. 2016	How to train your browser: Preventing xss attacks using contextual script fingerprints. National and Kapodistrian University, Department of Informatics and Telecommunications, Athens, GR.
May 2016	Ethics Collide: Security and Disobedience over the Web. TEDx University of Piraeus, Athens, GR.
Jan. 2016	Malware and Cryptography. University of Piraeus, Department of Informatics, Athens, GR.
Dec. 2012	Countering code injection attacks: A unified approach. Hellenic Air Force (HAF), Athens, GR.
Apr. 2011	Web application attacks: Categories and countermeasures. National and Kapodistrian University, Department of Informatics and Telecommunications, Athens, GR.

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