

ΣΤΕΡΓΙΟΠΟΥΛΟΣ Γιώργος

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I. Σπουδές

Οικονομικό Πανεπιστήμιο Αθηνών

Νοε. 2015

Διδακτορικό (Ph.D.) - Security and Critical Infrastructure Protection

- Ερευνητικές Περιοχές: Ασφάλεια πληροφοριών, ασφάλεια δικτύου, ανάλυση αλληλεξάρτησης δικτύων πληροφοριών, κρυπτογραφία και ανωνυμία δικτύου, ασφάλεια λογισμικού, μηχανική λογισμικού, ανάλυση και διαχείριση κινδύνου πληροφοριακών συστημάτων, ασφάλεια πηγαίου κώδικα, προστασία κρίσιμων υποδομών, θεωρία γράφων.

Οικονομικό Πανεπιστήμιο Αθηνών

Ιαν. 2011

Μεταπτυχιακό @ Πληροφοριακά Συστήματα (Βαθμός: 8.34/10 - Υποτροφία)

- Μαθήματα: Εφαρμοσμένη κρυπτογραφία, ασφάλεια υπολογιστών και δικτύων, ανάπτυξη λογισμικού και αρχιτεκτονική συστημάτων, ασφάλεια πληροφοριών και προστασία υποδομών ζωτικής σημασίας, ανάπτυξη συστημάτων πληροφορικής και μεγάλων βάσεων δεδομένων, ασφάλεια υπολογιστών και δικτύων.

Πανεπιστήμιο Πειραιώς

Ιούλ. 2008

Πτυχίο Πληροφορικής @ Τμήμα Πληροφορικής (Βαθμός: 7.01/10)

- Μαθήματα: Αντικειμενοστραφής προγραμματισμός, Δίκτυα Υπολογιστών, Τεχνολογίες Διαδικτύου, Σχεδιασμός και αρχιτεκτονική υπολογιστών, Κρυπτογραφία, Ασφάλεια Πληροφοριακών Συστημάτων, Λογική σχεδίαση ψηφιακών κυκλωμάτων κ.α.

II. Ακαδημαϊκή - Διδακτική Προϋπηρεσία

Πανεπιστήμιο Αιγαίου

Επίκουρος Καθηγητής – Ασφάλεια Πληροφοριακών Συστημάτων και Επικοινωνιών

(ΦΕΚ - Αρ. Φύλλου 634 - ΤΕΥΧΟΣ ΤΡΙΤΟ - 22-3-2021)

Μάρ. 2021 – Σήμερα

Διδασκαλία μαθημάτων:

- (**BSc**) Ασφάλεια Πληροφοριακών Συστημάτων, Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2021-2022, 2023-2024)
- (**BSc**) Ασφάλεια Δικτύων και Προστασίας της Ιδιωτικότητας, Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2021, 2022)
- (**BSc**) Ασφάλεια Κινητών και Ασυρμάτων Δικτύων Επικοινωνιών (ΚΑΔΕ), Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2022)
- (**MSc**) Ασφάλεια Δικτύων Υπολογιστών και Επικοινωνιών, Ασφάλεια Π.Ε.Σ., Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2020-2021, 2021-2022, 2023-2024)
- (**MSc**) ΠΜΣ Ασφάλεια Βάσεων Δεδομένων, Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2023-2024)

- (MSc) ΠΜΣ Ασφάλεια και Ιδιωτικότητα στο Διαδίκτυο του Μέλλοντος, Ασφάλεια Π.Ε.Σ. - IOT, Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2021-2022)
- (MSc) Ασφάλεια Πληροφοριακών και Επικοινωνιακών Συστημάτων, Ασφάλεια Π.Ε.Σ. – ΗΔ, Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2021-2022)
- (MSc) Διοίκηση Ασφάλειας ΠΣ, Ασφάλεια Π.Ε.Σ., Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων (2020-2021)

Οικονομικό Πανεπιστήμιο Αθηνών

Εντεταλμένος Λέκτορας Πανεπιστημιακός Υπότροφος

Σεπτ. 2016 – Σήμερα

Αυτοδύναμη διδασκαλία μαθημάτων:

- (MSc) Έλεγχος Ασφάλειας (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, σειρές: 2021, 2022, 2023, 2024)
- (MSc) Κρυπτογραφία και Εφαρμογές (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, σειρές: 2016 – 2024)
- (MSc) Ανάπτυξη Εφαρμογών στον Ιστό (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, σειρές: 2018-2022)
- (MSc) Διαχείριση Ασφάλειας Πληροφοριών και Προστασίας Υποδομών (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, σειρές: 2020)

Πανεπιστημιακός Υπότροφος (N.4009/2001) (N.4009/2001)

Σεπτ. 2016 – Σεπτ. 2020

- (BSc) Ασφάλεια Πληροφοριακών Συστημάτων (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, 2017, 2018, 2019, 2020)
- (BSc) Τεχνολογίες και προγραμματισμός στον Ιστό (Οικονομικό Πανεπιστήμιο Αθηνών, τμήμα Πληροφορικής, 2018, 2019, 2020)

Πανεπιστήμιο Πειραιά

Εντεταλμένος Λέκτορας (Adjunct Lecturer)

Φεβρ. 2016 – Δεκ. 2020

Συν-διδασκαλία μαθημάτων:

- (MSc) Ασφάλεια Κρυπτογραφικών Πρωτοκόλλων (Προηγμένα συστήματα πληροφορικής, Πανεπιστήμιο Πειραιά 2016-2018)
- (MSc) Ασφάλεια Δικτύων και Επικοινωνιών (Πανεπιστήμιο Πειραιά, 2016-2020)
- (MSc) Ασφάλεια Πληροφοριών (Πληροφορική, Πανεπιστήμιο Πειραιά, 2016-2019)

IV. Δημοσιευμένο έργο

IV.1. Αξιοποίηση επιστημονικού έργου από άλλους ερευνητές

Στατιστικά στοιχεία (Πηγή scholar.google.com, 06/04/2023)	
Σύνολο citations	1193
h-Index:	18
i10-index:	33

IV.2. Σύνοψη περιοδικών και συνεδρίων με υψηλή βαθμολογία – επιστημονική έκθεση

Περιοδικό ή Συνέδριο	Impact Factor (journal) ή Acceptance Rate (%) (conference)
IEEE SYSTEMS Journal	4.802 (2023)
Idaho National Laboratory 2021 Resilience Week (RWS), IEEE	N/A (US National laboratory conference)
ACM SIGMETRICS PER	2.77 (2016)
Computers and Security (COSE)	5.105 (2023)
Computer Networks	6.710 (2022)
International Journal of Critical Infrastructure Protection	3.683 (2023)
International Journal of Information Security (Springer)	2.8 (2022)
IEEE ACCESS	3.9 (2022)
European Symposium on Research in Computer Security (ESORICS)	16% (2017)
International Conference on Security and Cryptography (SECRYPT)	~20% (2018)
Engineering Secure Software and Systems (ESSOS)	26,4% (2012)

IV.3. Επιμέλεια πρακτικών συνεδρίων και περιοδικών

- [Ed-1] Gritzalis D, Theocharidou M, Stergiopoulos G. Critical Infrastructure Security and Resilience. Springer, Cham; 2019.
- [Ed-2] Guest Editor, Machine Learning in Intrusions Detection and Attacks for Smart IoT Ecosystem, Special Issue - Internet of Things Journal, Elsevier, 2023 (**accepted invitation, pending approval**)

IV.4. Διατριβές

- [Δ-1] Γ. Στεργιόπουλος, «Ασφάλεια Κρίσιμων Υποδομών σε επίπεδα αλληλοεξαρτήσεων και λογισμικού», Διδακτορική Διατριβή, Τμήμα Πληροφορικής, Οικονομικό Πανεπιστήμιο Αθηνών, Δεκέμβριος 2015.

IV.5. Συγγραφή κεφαλαίων σε συλλογικούς τόμους

- [B-3] “Ασφάλεια Πληροφοριών και Συστημάτων στον Κυβερνοχώρο”, ΕΚΔΟΣΕΙΣ ΝΕΩΝ ΤΕΧΝΟΛΟΓΙΩΝ, Μάρτιος 2021, Σωκράτης Κ. Κάτσικας – Στέφανος Γκρίτζαλης – Κωνσταντίνος Λαμπρινουδάκης (Ed.), ISBN13: 9789605780647.
- [B-2] Stergiopoulos G., Katsaros P., Gritzalis D., "Execution path classification for vulnerability analysis and detection", in E-Business and Telecommunications, Obaidat M., et al. (Eds.), pp. 293-317, Springer (CCIS 585), 2016.
- [B-1] Stergiopoulos G., Theocharidou M., Kotzanikolaou P., Gritzalis D., "Using centrality measures in dependency risk graphs for efficient risk mitigation", in Critical Infrastructure Protection IX, Sheno S. (Ed.), pp. 25-40, Springer, 2015.

IV.6. Επιστημονικά Περιοδικά

- [J-29] Stergiopoulos G., Raptaki, M., Gritzalis D., Automated event log analysis with causal dependency graphs for impact assessment of business processes, IEEE ACCESS, 2024 (**under review**)

7. [J-28] Leventopoulos S., Gritzalis D., Stergiopoulos G., "Malware as a geopolitical tool", in *Malware - Handbook of Prevention and Detection*, Gritzalis D., Choo K.-K. R., Patsakis C. (Eds.), Springer (Advances in Information Security), 2024.
8. [J-27] K. Pipyros, M. Gounari, G. Stergiopoulos, D. Gritzalis, "Harmonizing Open Banking in the European Union: A Comprehensive Analysis of PSD2 Compliance, Security Frameworks, and Data Protection Standards", *International Cybersecurity Law Review*, Springer, 2023.
9. [J-26] Stergiopoulos, G., Kotzanikolaou, P., Adamos, K., & Mitrou, L. "Scaling Private Proximity Testing Protocols for Geofenced Information Exchange: A Metropolitan-Wide Case Study", *Computer Networks*, Elsevier, 2023, Available at SSRN 4500629 (under revision).
10. [J-25] P. Dedousis, G. Stergiopoulos, G. Arampatzis and D. Gritzalis, "Enhancing Operational Resilience of Critical Infrastructure Processes through Chaos Engineering," in *IEEE Access*, DOI: 10.1109/ACCESS.2023.3316028.
11. [J-24] Adamos, K., Stergiopoulos, G., Karamousadakis, M., & Gritzalis, D. (2023). "Enhancing attack resilience of cyber-physical systems through state dependency graph models". *International Journal of Information Security*, Springer, 1-12.
12. [J-23] George Stergiopoulos, Panayiotis Kotzanikolaou, Charalambos Konstantinou, and Achilleas Tsoukalis, "Process-Aware Attacks on Medication Control of Type-I Diabetics using Infusion Pumps", *IEEE Systems Journal*, 2023.
13. [J-22] Lygerou I., Srinivasa S., Vasilomanolakis E., Stergiopoulos G., Gritzalis D., "A decentralized honeypot for IoT Protocols based on Android devices", *International Journal of Information Security*, July 2022.
14. [J-21] Dedousis P., Stergiopoulos G., Arampatzis G. and Gritzalis D., A security-aware framework for designing industrial engineering processes, *IEEE ACCESS*, November 2021.
15. [J-20] Xarhoulacos C.-G., Anagnostopoulou A., Stergiopoulos G., Gritzalis D., "Misinformation vs. situational awareness: The art of deception and the need for cross-domain detection", *Sensors* (Special Issue: Cyber Situational Awareness), August 2021.
16. [J-19] Stergiopoulos G., Gritzalis D., Anagnostopoulou A., Vasilellis E., "Dropping malware through sound injection: A comparative analysis on Android operating systems", *Computers & Security*, February 2021.
17. [J-18] G. Lykou, P. Dedousis, G. Stergiopoulos, D. Gritzalis, "Assessing Interdependencies and Congestion Delays in the Aviation Network", *IEEE Access*, 2020
18. [J-17] Gkotsis I., Gazi A., Gritzalis D., Stergiopoulos G., Limneos V., Vassiliou V., Koutiva E., Petrantonakis D., Lefkokilos E., Agrafioti E., Chalkidou A., Drakoulis D., Eleftheriou A., Skalidi A., Demestichas P., Fuggini C. (2020) Securing the European Gas Network, the Greek Business Case. Special Issue "Technology Advances and Support for Security Practitioners" of *Security Informatics and Law Enforcement*, Springer, ISSN: 2523-8507, 2021
19. [J-16] Dedousis P., Stergiopoulos G., Gritzalis D., "An improved bit masking technique to enhance covert channel attacks in everyday IT systems", in *ICETE-2020*, Obaidat M., et al. (Eds.), Springer, 2021
20. [J-15] Stergiopoulos G., Dedousis P., Gritzalis D. "Automatic analysis of attack graphs for risk mitigation and prioritization on large-scale and complex networks in Industry 4.0", *International Journal of Information Security*, Springer, 2022, <https://link.springer.com/article/10.1007/s10207-020-00533-4>
21. [J-14] Dimitris Koutras, George Stergiopoulos, Thomas Dasaklis, Panayiotis Kotzanikolaou, Dimitrios Glynos, Christos Douligeris, "Security in IoMT Communications: A survey", *SENSORS Journal*, MDPI, 2020.
22. [J-13] Stergiopoulos G., Gritzalis D., Limnaios E., "Cyber-attacks on the Oil & Gas sector: A survey on incident assessment and attack patterns", *IEEE Access*, 2020.

23. [J-12] D Gritzalis, G Stergiopoulos, E Vasilellis, A Anagnostopoulou, "Readiness exercises: Are risk assessment methodologies ready for the Cloud?", *Learning and Analytics in Intelligent Systems*, Vol. 14, pp. 177-192, Springer, June 2020.
24. [J-11] George Stergiopoulos, Panagiotis Dedousis, Dimitris Gritzalis, Automatic network restructuring and risk mitigation through business process asset dependency analysis, *Computers and Security (CoSe)*, Volume 96, 101869, ISSN 0167-4048, 2020.
25. [J-10] Malamas V., Dasaklis T., Chantzis F., Stergiopoulos G., Kotzanikolaou P., Douligeris C., "Risk Assessment Methodologies for the Internet of Medical Things: A Survey and Comparative Appraisal," in *IEEE Access*, vol. 9, pp. 40049-40075, 2021.
26. [J-9] Stergiopoulos G., Chronopoulou G., Bitsikas E., Tsalis N., Gritzalis D., "Using side channel TCP features for real-time detection of malware connections", In: *Journal of Computer Security*, Vol. 27, no. 5, pp. 507-520, 2019.
27. [J-8] Stergiopoulos G., Kapetanias N., Vasilellis E., Gritzalis D., "Leaking SCADA commands over unpadded TCP/IP encryption through differential packet size analysis", *Security & Privacy*, April 2019.
28. [J-7] Stergiopoulos, G., Valvis, E., Mitrodimas, D., Lekkas, D., & Gritzalis, D. (2018). Analyzing congestion interdependencies of ports and container ship routes in the maritime network infrastructure. In: *IEEE Access*, 6, 63823-63832.
29. [J-6] Stergiopoulos, G., Gritzalis, D., & Kouktzoglou, V. (2018). Using formal distributions for threat likelihood estimation in cloud-enabled IT risk assessment. In *Computer Networks*, Elsevier, 134, 23-45.
30. [J-5] Stergiopoulos, G., Valvis, E., Anagnou-Misyris, F., Bozovic, N., & Gritzalis, D. (2017). Interdependency analysis of junctions for congestion mitigation in transportation infrastructures. In *ACM SIGMETRICS Performance Evaluation Review*, 45(2), 119-124.
31. [J-4] Stergiopoulos, G., Kouktzoglou, V., Theocharidou, M., & Gritzalis, D. (2017). A process-based dependency risk analysis methodology for critical infrastructures. In: *International Journal of Critical Infrastructures (Special Issue)*, 13(2/3), 184-205.
32. [J-3] Stergiopoulos, G., Katsaros, P., & Gritzalis, D. (2017). Program analysis with risk-based classification of dynamic invariants for logical error detection. In: *Computers & Security (CoSe)*, Elsevier, 71, 36-50.
33. [J-2] Stergiopoulos, G., Kotzanikolaou, P., Theocharidou, M., Lykou, G., & Gritzalis, D. (2016). Time-based critical infrastructure dependency analysis for large-scale and cross-sectoral failures. In: *International Journal of Critical Infrastructure Protection*, Elsevier, 12, 46-60.
34. [J-1] Stergiopoulos, G., Kotzanikolaou, P., Theocharidou, M., & Gritzalis, D. (2015). Risk mitigation strategies for critical infrastructures based on graph centrality analysis. In: *International Journal of Critical Infrastructure Protection*, Elsevier, 10, 34-44.

IV.7. Ανακοινώσεις σε Επιστημονικά Συνέδρια

35. [C-26] G. Stergiopoulos, S. Leventopoulos, D. Gritzalis, "A Machine Learning approach to optimizing cybersecurity spending in critical infrastructures", in /Proc. of the 21st International Conference on Security and Cryptography/ (SECRYPT-2024), ScitePress, France, July 2024 (to appear).
36. [C-25] A. Anagnostopoulou, T. Papaloukas, G. Stergiopoulos, D. Gritzalis, "From plant to lab: Evaluating and comparing industrial emulation tools for real-world testing in Industrial Control Systems", in Proc. of the 21st International Conference on Security and Cryptography (SECRYPT-2024), ScitePress, France, July 2024
37. [C-24] Antonio Di Pietro, Francesco Cavedon, Vittorio Rosato and George Stergiopoulos, "Modeling Networks of Interdependent Infrastructure in Complex Urban Environments using Open-data", COMPLEXIS 2024.

38. [C-23] Adamos, K., Filippopoulos, I., Stergiopoulos, G., & Gritzalis, D. (2023, June). A Survey on National Cyber Emergency Plans. In *European Conference on Cyber Warfare and Security 2023* (Vol. 22, No. 1, pp. 1-11).
39. [C-22] Dedousis P., Raptaki M., Stergiopoulos G., Gritzalis D., "Towards an automated business process model risk assessment: A process mining approach", in *Proc. of the 19th International Conference on Security & Cryptography (SECRYPT-2022)*, Portugal, July 2022.
40. [C-21] Konstantinou, C., Stergiopoulos, G., Parvania, M., & Esteves-Verissimo, P. (2021). Chaos engineering for enhanced resilience of cyber-physical systems. *Resilience Week (RWS) 2021*, INL Idaho National Laboratory, Washington D.C., October 2021.
41. [C-20] Dedousis P., Stergiopoulos G., Gritzalis D., "Towards integrating security in industrial engineering design practices", in *Proc. of the 18th International Conference on Security & Cryptography (SECRYPT-2021)*, July 2021.
42. [C-19] K. Nomikos, A. Papadimitriou, G. Stergiopoulos, D. Koutras, M. Psarakis and P. Kotzanikolaou, "On a Security-oriented Design Framework for Medical IoT Devices: The Hardware Security Perspective," 2020 23rd Euromicro Conference on Digital System Design (DSD), Kranj, Slovenia, 2020, pp. 301-308, doi: 10.1109/DSD51259.2020.00056.
43. [C-18] Stergiopoulos G., Lygerou E., Tsalis N., Tomaras D., Gritzalis D., Avoiding network and host detection using packet bit-masking, In *Proc. of the 17th International Conference Security and Cryptography (SECRYPT-2020)*, ICETE, 2020.
44. [C-17] Lykou, G., Anagnostopoulou, A., Stergiopoulos, G., & Gritzalis, D. (2018, September). Cybersecurity Self-assessment Tools: Evaluating the Importance for Securing Industrial Control Systems in Critical Infrastructures. In *International Conference on Critical Information Infrastructures Security (CRITIS 2018)*, pp. 129-142. Springer, Cham.
45. [C-16] G. Stergiopoulos, A. Talavari, E. Bitsikas, D. Gritzalis, "Automatic detection of multiple types of malicious traffic using timing attacks and differential size analysis", in *Proc. of the 23rd European Symposium on Research in Computer Security (ESORICS-2018)*, Springer, Spain, September 2018.
46. [C-15] Tsalis, N., Stergiopoulos, G., Bitsikas, E., Gritzalis, D., & Apostolopoulos, T. K. (2018). Side Channel Attacks over Encrypted TCP/IP Modbus Reveal Functionality Leaks. In: *Proc. of the 15th International Conference Security and Cryptography (SECRYPT-2018)*, ICETE (2) (pp. 219-229).
47. [C-14] Stergiopoulos G., Valvis E., Anagnou-Misyris F., Bozovic N., Gritzalis D., "Interdependency analysis of junctions for congestion mitigation in Transportation Infrastructures", In *1st ACM SIGMETRICS International Workshop on Critical Infrastructure Network Security (CINS-2017)*, USA, June 2017.
48. [C-13] Lykou G., Stergiopoulos G., Papachrysanthou A., Gritzalis D., "Climate adaption: Addressing risks and impacts of climate change on Transport Sector", In *11th International Conference on Critical Infrastructure Protection (IFIP WG 11.0 2017)*, USA, March 2017.
49. [C-12] Gritzalis, D., Stergiopoulos, G., Kotzanikolaou, P., Magkos, E., & Lykou, G. (2016, September). Critical infrastructure protection: a holistic methodology for Greece. In *International Workshop on the Security of Industrial Control Systems and Cyber-Physical Systems* (pp. 19-34). Springer, Cham.
50. [C-11] Stergiopoulos G, Katsaros P., Gritzalis D., Apostolopoulos T., "Combining invariant violation with execution path classification for detecting multiple types of logical errors and race conditions", in *Proc. of the 13th International Conference on Security & Cryptography (SECRYPT-2016)*, ICETE, Vol. 4, pp. 28-40, Portugal, July 2016.

51. [C-10] Stergiopoulos G., Vasilellis E., Lykou G., Kotzanikolaou P., Gritzalis D., "Critical Infrastructure Protection tools: Classification and comparison", in *Proc. of the 10th International Conference on Critical Infrastructure Protection* (IFIP WG 11.10 2016), USA, March 2016
52. [C-9] Faily S., Stergiopoulos G., Katos V., Gritzalis D., "Water, water, everywhere: Nuances for a Water Industry Critical Infrastructure specification exemplar", in *Proc. of the 10th International Conference on Critical Infrastructures Security (CRITIS-2015)*, pp. 243-246, Springer (LNCS 9578), Germany, October 2015.
53. [C-8] Stergiopoulos G., Theoharidou M., Gritzalis D., "Using logical error detection in Remote-Terminal Units to predict initiating events of Critical Infrastructures failures", in *Proc. of the 3rd International Conference on Human Aspects of Information Security, Privacy and Trust (HCI-2015)*, pp. 672-683, Springer (LNCS 9190), USA, August 2015.
54. [C-7] Stergiopoulos G., Petsanas P., Katsaros P., Gritzalis D., "Automated exploit detection using path profiling: The disposition should matter, not the position", in *Proc. of the 12th International Conference on Security and Cryptography (SECRYPT-2015)*, pp. 100-111, ICETE, France, July 2015.
55. [C-6] Stergiopoulos G., Kotzanikolaou P., Theoharidou M., Gritzalis D., "Using centrality metrics in CI dependency risk graphs for efficient risk mitigation", in *Proc. of the 9th IFIP International Conference on Critical Infrastructure Protection (IFIP WG 11.0 2015)*, Springer, USA, March 2015.
56. [C-5] Stergiopoulos, G., Katsaros, P., & Gritzalis, D. Automated detection of logical errors in programs. In *International Conference on Risks and Security of Internet and Systems* (pp. 35-51). Springer, Cham, August 2014.
57. [C-4] Gritzalis, D., Stavrou, V., Kandias, M., & Stergiopoulos, G.. Insider threat: enhancing BPM through social media. In *2014 6th International Conference on New Technologies, Mobility and Security (NTMS)* (pp. 1-6). IEEE, March 2014.
58. [C-3] Stergiopoulos, George, Miltiadis Kandias, and Dimitris Gritzalis. "Approaching encryption through complex number logarithms." In *2013 International Conference on Security and Cryptography (SECRYPT)*, pp. 1-6. IEEE, 2013.
59. [C-2] Stergiopoulos, G., Tsoumas, B., & Gritzalis, D.. On business logic vulnerabilities hunting: the APP_LogGIC framework. In *International Conference on Network and System Security* (pp. 236-249). Springer, Berlin, Heidelberg, June 2013.
60. [C-1] Stergiopoulos, G., Tsoumas, B., & Gritzalis, D. Hunting application-level logical errors. In *International Symposium on Engineering Secure Software and Systems* (pp. 135-142). Springer, Berlin, Heidelberg, February 2012.

IV.8. Άλλες ανακοινώσεις και δημοσιεύσεις

1. Rosato V, Di Pietro A, Kotzanikolaou P, Stergiopoulos G, Smedile G. *Integrating Resilience in Time-based Dependency Analysis: A Large-Scale Case Study for Urban Critical Infrastructures*.
2. G. Stergiopoulos, *Power Sector Dependency on Time Service: Attacks against time sensitive services*, European Union Agency for Cybersecurity (ENISA), April 2020.
3. Stergiopoulos, G., Katsaros, P., & Gritzalis, D. (2014, July). Source code profiling and classification for automated detection of logical errors. In *3rd International Seminar on Program Verification, Automated Debugging and Symbolic Computation*, Germany.
4. Προσκεκλημένος ομιλητής στο συνέδριο ICT Security World 2017, για διάλεξη με θέμα "WORD-OF-MOUTH: Private Gossiping of Geolocation News", Ιούνιος 2017.
5. Stergiopoulos G., Mentzelioti D., "Security in the Internet of Things: A primer", 3rd ICT Security Forum, Athens, Greece, June 2017.

6. Stergiopoulos G., Gritzalis D., "Critical Infrastructure: The Nervous System of any Welfare State", 4th Information Security Conference, Athens, February 2017.
7. Stergiopoulos G., Kotzanikolaou P., Theocharidou M., Gritzalis D., "Risk Mitigation for Critical Infrastructures: AUEB INFOSEC Lab Initiatives", Risk-Tea Workshop, Athens, January 2017.
8. Stergiopoulos G., Gritzalis D., "Critical Infrastructure Protection: A Policy Proposal and Action Plan for Greece", NATO 1st NMOTC Cyber Security Conference, Greece, October 2016.
9. Stergiopoulos G., "Critical infrastructure interdependencies: The nervous system of a technologically developed country and how to protect it", 4th International e-Life Congress (eLife-2015), Athens, November 2015.
10. Stergiopoulos G., Kotzanikolaou P., Theocharidou M., Gritzalis D., "Topics and Research Initiatives in Risk Mitigation for Critical Infrastructures", *19th Panhellenic Conference on Informatics (PCI-2015)*, Workshop on Security in Critical Information Infrastructures, October 2015.

IV.9. Μέλος επιτροπών διεθνών συνεδρίων

- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου **30th IEEE International Symposium on On-Line Testing and Robust System Design (IOLTS 2024)**
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου **29th IEEE International Symposium on On-Line Testing and Robust System Design (IOLTS 2023)**
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου ***Joint Workshop on CPS & IoT Security and Privacy (CPSIoTSec 2023)***, in conjunction with the *ACM Conference on Computer and Communications Security 2023*.
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου ***Joint Workshop on CPS & IoT Security and Privacy (CPSIoTSec 2022)***, in conjunction with the *ACM Conference on Computer and Communications Security 2022*.
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου **International Conference on Information Security Practice and Experience (ISPEC 2022)**.
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου ***Joint Workshop on CPS & IoT Security and Privacy (CPSIoTSec 2021)***, in conjunction with the *ACM Conference on Computer and Communications Security 2021*.
- Μέλος στην Τεχνική Επιτροπή του Επιστημονικού συνεδρίου **11th International Conference on Critical Information Infrastructures Security (CRITIS 2016)**.

IV.10. Μέλος συντακτικών επιτροπών διεθνών περιοδικών έρευνας

- Associate Editor, International Journal of Critical Infrastructure Protection (IJCIP), Elsevier.

IV.11. Κριτής σε επιστημονικά περιοδικά

1. IBM Journal of Research and Development
2. European Symposium on Research in Computer Security (ESORICS)
3. Elsevier, International Journal of Critical Infrastructure Protection (IJCIP)
4. Elsevier, Computers and Security, Elsevier (COSE)
5. Critical Infrastructure Protection (IFIP WG 11.10)
6. Elsevier Computer Networks (COMNET)
7. Elsevier Computers & Security (COSE)
8. International Conference on Critical Information Infrastructures Security (CRITIS)
9. International Conference on Security & Cryptography (SECRYPT)
10. Journal of Computer Security, IOS press

IV.12. Εκδοτικός Σύμβουλος Βιβλίων Έρευνας (Editor / Co-editor)

- Book, “*Critical Infrastructure Security and Resilience - Theories, Methods, Tools and Technologies*”, Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland.

IV.13. Συμμετοχή σε βιβλιο-κριτικές

- T. Klein, "A Bug Hunter's Diary", In Computers and Security, Vol. 43.
- P. Polstra, "Hacking and Penetration Testing with Low Power Devices", Computers and Security, Vol. 49.

IV.14. Συντονιστής συνόδου ερευνητικού συνεδρίου (Session Chair)

- International Conference on Security and Cryptography (SECRYPT) 2016, Λισαβόνα, Πορτογαλία
- International Conference on Security and Cryptography (SECRYPT) 2020, Online (e-conference).

V. Επαγγελματική Εμπειρία

V.1. NIS Expert (εξωτερικός συνεργάτης)

European Union Agency for Network and Information Security (ENISA)

- | | |
|---|-----------------------|
| • <i>NIS Expert consultant on Support on activities for InfoHub v.2</i> | Σεπτ 2023 – Παρόν |
| • <i>NIS Expert consultant on Support on activities for ECSF</i> | Δεκ 2022 – Ιουν 2023 |
| • <i>NIS Expert consultant on Support on activities for InfoHub prototype</i> | Σεπτ 2022 – Νοεμ 2022 |
| • <i>NIS Expert consultant on stock taking of good cyber security practices under NIS 2.0</i> | Φεβ 2021 – Απρ 2021 |
| • <i>NIS Expert consultant for “Cyber security in the aviation sector”</i> | Απρ 2020 – Ιούλ 2020 |

V.2. Subject Matter Expert - Cybersecurity and Safety

Δημόσια Επιχείρηση Αερίου (ΔΕΠΑ. Α.Ε.)

Ιούλ 2019 – Νοέμ 2021

- Cybersecurity and safety project expert.

V.3. Cybersecurity and Data Privacy Consultant

Mar 2012 – Present

Contractor - Expert

- Delivered more than **40 projects** for both the public and private sector, including banks, startups, finance companies, industrial system providers and public healthcare organisations.
- More than ten (**10**) **years** of experience in IT/OT and Telecommunications cybersecurity projects, including Penetration Tests, Risk assessments and consulting for ISO 27001 ISMS development, IEC 62443, NIST 800 and relevant standardization using internationally approved methodologies (ITSRM, ITSMTES3, Pilar, MAGERIT, Octave).
 - Audits based on ISO27001, 62443-2, 62443-3 and relevant US NIST standards.
 - Solutions architect for mitigating cybersecurity vulnerabilities. Disaster Recovery and Business Continuity plan development for deploying within an Information Security Management System.
 - Assessing/consulting IT and dev teams during implementation of security measures based on OWASP, NIST and ISO 27000 series by identifying risks and proposing acceptable and mitigation strategies and technical solutions.

- Risk analysis using MDCG 2019-16 Guidance on Cybersecurity for medical devices¹ includes a separate Annex specifically for mapping IT security requirements to NIS Directive Cooperation Group measures. The MDCG includes comprehensive references to risk assessment and impact assessment for operating environments that utilise medical devices.
- Analysis of cyber-physical systems involving IT and building security management.
- GDPR compliance consultant
 - Managed and conducted more than 15 projects regarding Data Privacy and GDPR compliance for companies.
 - Data mapping, Data Impact Assessments (DPIA) and preparedness in accordance with GDPR.
- Penetration testing of information systems.
 - Red Teaming, binary exploitation, exploit & privilege escalation, web and mobile APIs.

V.4. Interim Agent – Network and Information Security Assistant

European Union Agency for Network and Information Security (ENISA)

Ιαν. 2019 – Ιουλ. 2019

V.5. Principal Investigator – Κύριος Ερευνητής

Οικονομικό Πανεπιστήμιο Αθηνών

Οκτ. 2016 – Παρόν

Πανεπιστήμιο Πειραιά

Οκτ. 2018 – Σεπτ. 2019

Google Digital News Innovation (DNI) Fund – University of Piraeus

Φεβρ. 2017 – Αυγ. 2017

- Implementation of secure proximity testing cryptographic protocols for online mobile users.
- Lead researcher and R&D project manager for “Word of Mouth” (WoM) project at the University of Piraeus.
- Business Analysis & development (Android), business Impact analysis
- Technology utilization and implementation.

V.6. IT Network Administrator

Athens University of Economics and Business

Σεπτ 2012 - Ιουλ. 2015

Σεπτ 2016 - Παρόν

V.7. Software analyst - Software developer

Hellenic National Defense General Staff, Cyber Defense Division March 2011 – Nov. 2011

V. Πιστοποιητικά

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- | | |
|--|------|
| • Certified Information Security Manager (CISM), ISACA, Certificate Nr.: 242426677 | 2024 |
| • Πιστοποίηση ISO/IEC 27001 Lead Auditor (ISO LA), TuV Austria, Certificate Nr.: ΕΚΠ 2019 0094 | 2019 |
| • Πιστοποίηση Data Protection Officer, Ελληνικό Ινστιτούτο Πιστοποιήσεων (κατά ISO 17024) | 2018 |
| • TOEFL degree, Score 114/120 | 2008 |
| • Cambridge English: Proficiency (CPE) qualification | 2000 |

¹ <https://ec.europa.eu/docsroom/documents/41863>

VI. Βραβεία - Διακρίσεις

- Postdoctoral Research Scholarship: Action II. Athens University of Economics and Business support postdoctoral research. 2018
- Postdoctoral Research Scholarship: Action II. Athens University of Economics and Business support postdoctoral research. 2017
- Scholarship, M.Sc. in Information Systems, Athens University of Economics and Business 2011
- Excellence, M.Sc. in Information Systems, Athens University of Economics and Business 2011