

ARTEMIOS G. VOYIATZIS (ΑΡΤΕΜΙΟΣ Γ. ΒΟΥΙΑΤΖΗΣ)

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Employment Summary

Athena Research and Innovation Center in ICT and Knowledge Technologies, Greece (2026–today).

Collaborating senior researcher with the Industrial Systems Institute.

Self-employed, Patras, Greece (2024–2025).

Principal architect for migrating a multi-RDBMS infrastructure into a unified national social insurance one.

Coached and mentored new analysts and developers.

Self-employed, Vienna, Austria (2017–2023).

Lead technical analyst (LTA) and technical project manager (TPM) in data warehouse projects for Bank Austria, member of UniCredit.

Lead data product (WitBoost, Dremio, Apache Iceberg) and SVN-to-git version control migration initiatives.

Train, on-board, and mentor new technical analysts and developers.

Open University of Cyprus, Cyprus (2017–2018).

Adjunct Faculty.

SBA Research, Austria (2015–2017).

Key Researcher (8/2015–8/2017). Shaped the strategic R&D program on networked systems security for 2017–2025.

Senior Researcher (2–7/2015); on sabbatical leave from Athena Research and Innovation Center in ICT and Knowledge Technologies.

Technische Universität Wien, Austria (9/2015–8/2017)

Universitätslektor, Institut für Softwaretechnik und Interaktive Systeme, Fakultät für Informatik.

Athena Research and Innovation Center in ICT and Knowledge Technologies, Greece (2011–2018).

Scientific Advisory Board member, Industrial Systems Institute (2012–2015).

Principal Researcher (tenured), Industrial Systems Institute (2015–2018). On leave of absence (9/2015–11/2018).

Associate Researcher (tenure-track), Industrial Systems Institute (2011–2014).

University of Patras, Greece (2006–2010).

SAP R/3 support: (i) BASIS, ITS 6.20, SAP Front End Installation Server, (ii) ERP modules: FI, CO, AM, PS, and (iii) Application and report development in ABAP, SAPScript, and LSMW.

Envision and advocate “Digital Leap”, a large-scale digital transformation initiative based on a unified information system for all University’s operations.

Signal Corps, Greek Army (2005–2006).

National service as an Analyst/Programmer.

University of Patras, Greece (2001–2005).

Design LDAP-based directory services architecture; develop full-stack applications serving 25.000+ users, still in production use; implement IPTV and VoD services; prototype University’s PKI, prepare proposals and participate in R&D projects.

Sigma Securities, Athens, Greece (1999).

Develop tailored software for supporting stock market activities.

University of Crete, Greece (1994–1999).

System administrator for School of Sciences.

Education

M.Sc. in Innovation Management and Entrepreneurship, Hellenic Open University, Greece (2024).

Ph.D. in Electrical and Computer Engineering, University of Patras, Greece (2009).

M.Sc. in Computer Science, University of Crete, Greece (2001).

B.Sc. in Computer Science, University of Crete, Greece (2000).

B.Sc. in Mathematics, University of Crete, Greece (1998).

Awards & Honors

ACM Senior Member Award (2015).

IEEE Senior Member Award (2015).

First Award for Excellence in Telecommunications by Ericsson Hellas (1999).

Honorary scholarship by Greek State Scholarships Foundation (1994–1995). Ranked 2nd on class of 100.

Honorary scholarship by Greek State Scholarships Foundation (1993–1994). Ranked 3rd on class of 100.

R&D Projects

“PISTIS: Promoting and Incentivising Federated, Trusted, and Fair Sharing and Trading of Interoperable Data ASsets”, HORIZON Innovation Actions, European Union (3–6/2026). Senior researcher.

“HERIT-ADAPT: Heritage and territory Resilience through Sustainable tourism, Climate change Adaptation and citizen eNgagement”, Interreg Euro-MED Programme (3–6/2026). Senior researcher.

“SENDER: Strengthening European Network Centres of Excellence in Cybercrime”, Internal Security Fund-Police 2014-2020, European Union (10/2016–8/2017). Senior researcher.

“u’smile: Josef Ressel Center for User-friendly Secure Mobile Environments”, JRZ, CDG, Austria (7/2016–8/2017). Senior researcher.

“SBA2”, COMET K1-Centres, FFG, Austria (2/2015–8/2017). Senior researcher.

“ISRTDI: Industrial Systems for Sustainable Development and Well-being - Research, Technological Development, and Innovation”, National Action “KRIPIS”, General Secretariat for Research and Technology, Greece (1/2013–10/2015). Senior researcher, work package leader.

“DYNACARGO: Dynamic Cargo Routing on-the-Go”, National Action “Cooperation 2011”, General Secretariat for Research and Technology, Greece (4/2013–6/2015). Associate researcher.

“WelCOM: Wireless Sensors for Engineering Asset Lifecycle Optimal Management”, National Action “Cooperation 2009”, General Secretariat for Research and Technology, Greece (3/2012–12/2013). Associate researcher.

“FORSEE: Regional ICT foresight exercise for Southeast European countries”, South East Europe Transnational Cooperation Programme (12/2011–5/2014). Partner project manager.

“SPICE: Space Internetworking Center”, Democritus University of Thrace, Xanthi, Greece (4–5/2012). Research on disruption- and delay-tolerant networking. Visiting researcher.

“DISCOS: Distributed Information Storage and Communication in Outer Space”, European Space Agency (ESA) Greece Industry Incentive Scheme Call (6/2011–6/2012). Associate researcher.

“WidetheSEEbySuccMod: Widening the Thermal Solar Energy Exploitation by the Successful Models”, South East Europe Transnational Cooperation Programme (1/2011–6/2012). Associate researcher.

“PRoMPt: Proactive Human Response to Wildfires Outbreak: Measure and Prepare for it”, South East Europe Transnational Cooperation Programme (7–12/2011). Associate researcher.

“Electronic Lottery System for Technical Chamber of Greece”, subcontracted by Industrial Systems Institute (5–8/2009). Collaborating researcher.

“InterMedia: Interactive Media with Personal Networked Devices”, European Commission FP6 Network of Excellence (2006–2010). Collaborating researcher.

«ΠΙΕΝΕΔ 2003: Ανάπτυξη φερέγγυας (trusted) υπολογιστικής και δικτυακής υποδομής για παροχή ασφαλών υπηρεσιών», General Secretariat for Research and Technology, Greece (2005–2008). Senior researcher.

“E-NEXT: Emerging Networking eXperiments and Technologies”, European Commission FP6 Network of Excellence (2004–2006). Senior researcher.

“INNO-UTILITIES: Innovation-Friendly Public Procurement & Fight Against Telecommunications Fraud and Security Threats”, European Commission FP5 project (2003–2005). Researcher.

“ASPIS: Development of a DDoS-protection system for networks”, Research Committee, University of Patras, Funding Programme “K. Karatheodori” (2002–2004). Researcher.

“Consulting services for system security”, General Secretariat of Information Systems, Ministry of Economy and Economics, Greece (7–11/2002). Researcher.

“SOPHOCLES: Development of a testing methodology for digital systems using a small number of test vectors”, ATMEL Hellas (2001–2003). Researcher.

“TELCRYPTO-01: Support for Research in the Area of Security”, Telcordia Technologies, USA (2000–2002). Researcher.

“Eurescom Study P1150: E-voting - Opportunities and Challenges for Network Operators”, Eurescom, Germany (10–12/2001). Researcher.

“SecurePhone: Analysis of Attack Methods for Secure Telephone Systems”, Intracom S.A., Greece (1999–2001). Researcher.

“CRYPTO: Research in Cryptography”, Bellcore (now Telcordia Technologies), USA (1998–1999). Researcher.

Telecommunications and Networks Division, Computer Science Institute, Foundation for Research and Technology, Hellas (ICS-FORTH), Greece (1995–1997). Undergraduate trainee.

Publications

Refereed Publications in International Conferences and Workshops

1. S. Neuner, A.G. Voyiatzis, S. Fotopoulos, C. Mulliner, and E.R. Weippl. Usblock: Blocking usb-based keypress injection attacks. In *IFIP Annual Conference on Data and Applications Security and Privacy*, pages 278–295. Springer, 2018. Bergamo, Italy, July 16-18, 2018.
2. N. Kouvelas, V. Balasubramanian, A.G. Voyiatzis, V. Prasad, and D. Pesch. On inferring how resources are shared in IoT ecosystems: a graph theoretic approach. In *2018 IEEE 4th World Forum on Internet of Things (WF-IoT 2018)*. IEEE, 2018. Singapore, February 5-8, 2018.
3. V. Balasubramanian, N. Kouvelas, V.S. Rao, K. Chandra, V. Prasad, A.G. Voyiatzis, and W. Liu. A unified architecture for integrating energy harvesting IoT devices with the mobile edge cloud. In *2018 IEEE 4th World Forum on Internet of Things (WF-IoT 2018)*. IEEE, 2018. Singapore, February 5-8, 2018.

4. A. Judmayer, A. Zamyatin, N. Stifter, A.G. Voyiatzis, and E.R. Weippl. Merged mining: Curse or cure? In Garcia-Alfaro et al., editor, *Proceedings of First International Workshop on Cryptocurrencies and Blockchain Technology (CBT 2017)*, volume 10436 of LNCS. Springer, 2017. Oslo, Norway, September 14, 2017.
5. S. Neuner, A.G. Voyiatzis, M. Schmiedecker, and E.R. Weippl. Timestamp hiccups: Detecting manipulated filesystem timestamps on NTFS. In *International Conference on Availability, Reliability and Security (ARES)*. ACM ICPS, 2017. Reggio Calabria, Italy, August 29 - September 1, 2017.
6. A. Judmayer, J. Ullrich, G. Merzdovnik, A.G. Voyiatzis, and E. Weippl. Lightweight address hopping for defending the IPv6 IoT. In *International Conference on Availability, Reliability and Security (ARES)*. ACM ICPS, 2017. Reggio Calabria, Italy, August 29 - September 1, 2017.
7. Z.A. Khan, J. Ullrich, A.G. Voyiatzis, and P. Herrmann. A trust-based resilient routing mechanism for the Internet of Things. In *International Conference on Availability, Reliability and Security (ARES)*. ACM ICPS, 2017. Reggio Calabria, Italy, August 29 - September 1, 2017.
8. F. Pirpilidis, A.G. Voyiatzis, L. Pyrgas, and P. Kitsos. An Efficient Reconfigurable Ring Oscillator for Hardware Trojan Detection. In *20th Panhellenic Conference on Informatics (PCI 2016)*. Patras, Greece, November 10-12, 2016.
9. K. Stefanidis and A.G. Voyiatzis. An HMM-based Anomaly Detection Approach for SCADA Systems. In 10th WISTP International Conference on Information Security Theory and Practice (WISTP'2016). Heraklion, Crete, Greece, September 26-27, 2016.
10. M. Tornatore, J. André, P. Babarczy, T. Braun, E. Følstad, P. Heegaard, A. Hmaity, M. Furdek, L. Jorge, W. Kmiecik, C. Mas Machuca, L. Martins, C. Medeiros, F. Musumeci, A. Pašić, J. Rak, S. Simpson, R. Travanca, and A. Voyiatzis. A Survey on Network Resiliency Methodologies against Weather-based Disruptions. In 8th International Workshop on Resilient Networks Design and Modeling (RNDM 2016). Halmstad, Sweden, September 13-15, 2016.
11. G. Merzdovnik, D. Buhov, A.G. Voyiatzis, and E.R. Weippl. Notary-assisted Certificate Pinning for Improved Security of Android Apps. In 5th International Workshop on Security of Mobile Applications (IWSMA 2016), in conjunction with the 11th International Conference on Availability, Reliability and Security (ARES 2016). Salzburg, Austria, August 31 - September 2, 2016.
12. P. Kitsos, K.G. Stefanidis, and A.G. Voyiatzis. TERO-based Detection of Hardware Trojans on FPGA Implementation of the AES Algorithm. In 19th EUROMICRO Conference on Digital System Design (DSD 2016). Limassol, Cyprus, August 31 - September 2, 2016.
13. S. Neuner, A.G. Voyiatzis, M. Schmiedecker, S. Brunthaler, S. Katzenbeisser, and E.R. Weippl. Time is on my side: Steganography in filesystem metadata. In 16th Annual DFRWS Conference (DFRWS USA 2016). Seattle, WA, USA, August 7-10, 2016.
14. D.E. Simos, K. Kleine, A.G. Voyiatzis, R. Kuhn, and R. Kacker. TLS cipher suites recommendations: A combinatorial coverage measurement approach. In 2016 IEEE International Conference on Software Quality, Reliability and Security (QRS 2016). Vienna, Austria, August 1-3, 2016.
15. G. Merzdovnik, K. Falb, M. Schmiedecker, A.G. Voyiatzis, and E.R. Weippl. Whom You Gonna Trust? A Longitudinal Study on TLS Notary Services. In 30th Annual IFIP WG 11.3 Working Conference on Data and Applications Security and Privacy (DBSec 2016). Trento, Italy, July 18-21, 2016.
16. A.G. Voyiatzis, K.G. Stefanidis, and P. Kitsos. Efficient Triggering of Trojan Hardware Logic. In 19th IEEE International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS 2016). Košice, Slovakia, April 20-22, 2016.
17. J. Ullrich, A.G. Voyiatzis, and E.R. Weippl. Secure Cyber-Physical Production Systems: Solid Steps Towards Realization. In 1st International Workshop on Cyber-Physical Production Systems (CPPS 2016). CPS Week 2016, Vienna, Austria, April 12, 2016.

18. J. Ullrich, A.G. Voyiatzis, and E.R. Weippl. The Quest for Privacy in Consumer IoT. In 1st International Workshop on Consumers and the Internet of Things (ConsIoT 2016). CPS Week 2016, Vienna, Austria, April 11, 2016.
19. P. Kitsos, D.E. Simos, K.G. Stefanidis, and A.G. Voyiatzis. Malicious Hardware Logic Detection based on Combinatorial Testing. TRUDEVICE 2016: Workshop on Trustworthy Manufacturing and Utilization of Secure Devices. DATE 2016 Friday Workshops, Dresden, Germany, March 14-18, 2016.
20. P. Kitsos, D.E. Simos, J. Torres-Jimenez, and A.G. Voyiatzis. Exciting FPGA Cryptographic Trojans using Combinatorial Testing. 26th IEEE International Symposium on Software Reliability Engineering (ISSRE 2015). Gaithersburg, MD, USA, November 2-5, 2015. *Full paper acceptance rate 19.8%*
21. A.G. Voyiatzis, K. Katsigiannis, and S. Koubias. A Modbus/TCP Fuzzer for Testing Internetworked Industrial Systems. 20th IEEE International Conference on Emerging Technologies and Factory Automation (ETF A 2015). Luxembourg, September 8-11, 2015.
22. A. Papalambrou, D. Karadimas, J. Gialelis, and A.G. Voyiatzis. A Versatile Scalable Smart Waste-bin System based on Resource-limited Embedded Devices. 20th IEEE International Conference on Emerging Technologies and Factory Automation (ETF A 2015). Luxembourg, September 8-11, 2015.
23. P. Kitsos and A.G. Voyiatzis. A Comparison of TERO and RO Timing Sensitivity for Hardware Trojan Detection Applications. 18th EUROMICRO Conference on Digital System Design (DSD 2015). Madeira, Portugal, August 26-28, 2015.
24. E. Papapetrou, V. Bourgos, and A.G. Voyiatzis. Privacy-preserving Routing in Delay Tolerant Networks based on Bloom Filters. 16th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WoWMoM 2015). Boston, MA, USA, June 14-17, 2015.
25. L. Ioannou, H.E. Michail, and A.G. Voyiatzis. High Performance Pipelined FPGA Implementation of the SHA-3 Hash Algorithm. 4th Mediterranean Conference on Embedded Computing (MECO 2015). Budva, Montenegro, June 14-18, 2015.
26. G. Asimakopoulos, S. Christodoulou, A. Gizas, V. Triantafillou, G. Tzimas, J. Gialelis, A.G. Voyiatzis, D. Karadimas, and A. Papalambrou. Architecture and Implementation Issues, Towards a Dynamic Waste Collection Management System. WWW2015 Workshop on Web Data Science and Smart Cities. Florence, Italy, May 18, 2015.
27. P. Kitsos and A.G. Voyiatzis. Investigating TERO for Hardware Trojan Horse Detection. TRUDEVICE 2015: Workshop on Trustworthy Manufacturing and Utilization of Secure Devices. DATE 2015 Friday Workshops, Grenoble, France, March 9-13, 2015.
28. H.E. Michail, L. Ioannou, and A.G. Voyiatzis. Pipelined SHA-3 implementations on FPGA: Architecture and performance analysis. In *Proceedings of Second Workshop on Cryptography and Security in Computing Systems (CS2)*, 2015. Amsterdam, The Netherlands, January 19-21, 2015. *Full paper acceptance rate: 18.5%*
29. G. Asimakopoulos, S. Christodoulou, A. Gizas, V. Triantafillou, J. Gialelis, and A.G. Voyiatzis. Architectural Modules of a Dynamic Collection Management System of Urban Solid Waste. In *Proceedings of ITS 2014 - Intelligent Transport Systems and Smart Cities*. Patras, Greece, November 19-22, 2014.
30. A.G. Voyiatzis J. Gialelis, and D. Karadimas. Dynamic Cargo Routing on-the-Go: The Case of Urban Solid Waste Collection. In *The 2nd IEEE WiMob 2014 International Workshop on Smart City and Ubiquitous Computing Applications (SCUCA 2014)*. Larnaca, Cyprus, October 8, 2014.
31. P. Kitsos and A.G. Voyiatzis. FPGA Trojan Detection Using Length-optimized Ring Oscillators. In *17th EUROMICRO Conference on Digital System Design (DSD 2014)*. Verona, Italy, August 27-29, 2014.
32. P. Kitsos and A.G. Voyiatzis. Towards a Hardware Trojan Detection Methodology. In *2nd EUROMICRO/IEEE Workshop on Embedded and Cyber-Physical Systems (ECYPS 2014)*. Budva, Montenegro, June 15-19, 2014.

33. C. Fidas and A.G. Voyiatzis. On Users' Preference on Localized vs. Latin-based CAPTCHA Challenges. In *14th IFIP TC 13 International Conference (INTERACT 2013)*. Cape Town, South Africa, September 2-6, 2013.
34. C. Fidas and A.G. Voyiatzis. An Empirical Study on Efficiency and Effectiveness of Localized vs. Latin-based CAPTCHA Challenges. In *17th Panhellenic Conference on Informatics (PCI 2013)*. Thessaloniki, Greece, September 19-21, 2013.
35. E.G. Spanakis and A.G. Voyiatzis. DAPHNE: A Disruption-Tolerant Application Proxy for e-Health Network Environments. In *3rd International ICST Conference on Wireless Mobile Communication and Healthcare (MobiHealth 2012)*. Paris, France, November 21-23, 2012.
36. A.G. Voyiatzis, K.G. Stefanidis, and D.N. Serpanos. Increasing lifetime of cryptographic keys on smart-phone platforms with the controlled randomness protocol. In *Proceedings of the 6th Workshop on Embedded Systems Security (WESS 2011)*. Taipei, Taiwan, October 13, 2011.
37. A. Papalambrou, P. Soufrilas, A.G. Voyiatzis, and D.N. Serpanos. A secure DTN-based smart camera surveillance system. In *Proceedings of the 6th Workshop on Embedded Systems Security (WESS 2011)*. Taipei, Taiwan, October 13, 2011.
38. A.G. Voyiatzis, C.A. Fidas, D.N. Serpanos, N.M. Avouris. An Empirical Study on the Web Password Strength in Greece. In *15th Panhellenic Conference on Informatics (PCI 2011)*. Kastoria, Greece, September 30-October 2, 2011.
39. C.A. Fidas, A.G. Voyiatzis, and N.M. Avouris. On the necessity of user-friendly CAPTCHA. In *2011 Symposium on Usable Privacy and Security (SOUPS)*, "Poster Showcasing Usable Privacy and Security Papers Published in the Past Year at Other Conferences". Pittsburgh, PA, USA, July 20-22, 2011.
40. C.A. Fidas, A.G. Voyiatzis, and N.M. Avouris. On the necessity of user-friendly CAPTCHA. In *ACM CHI 2011*. Vancouver, BC, Canada, May 7-12, 2011. *Paper acceptance rate: 26%*.
41. A. Papalambrou, P. Soufrilas, A.G. Voyiatzis, and D.N. Serpanos. Monitoring of a DTN2 network. In *Baltic Congress on Future Internet Communications (BCFIC 2011), Special session on "Space/Earth Delay/Disruption Tolerant Networking"*. Riga, Latvia, February 16-18, 2011.
42. K.G. Stefanidis, A.G. Voyiatzis, and D.N. Serpanos. Performance of the controlled randomness protocol on .NET Compact Framework embedded systems. In *4th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2011)*. Paris, France, February 7-10, 2011.
43. C. Fidas, A.G. Voyiatzis, and N.M. Avouris. When security meets usability: A user-centric approach on a crossroads priority problem. In *14th Panhellenic Conference on Informatics (PCI 2010)*. Tripoli, Greece, September 10-12, 2010.
44. M.G. Iatrou, A.G. Voyiatzis, and D.N. Serpanos. Network stack optimization for improved IPsec performance on Linux. In *International Conference on Security and Cryptography (SECRYPT 2009)*. Milan, Italy, July 7-10, 2009. *Full paper acceptance rate: 11%*.
45. A.A. Antonopoulos, K.G. Stefanidis, and A.G. Voyiatzis. Fighting spammers with spam. In *9th IEEE International Symposium on Autonomous Decentralized Systems (ISADS 2009)*. Athens, Greece, March 23-25, 2009.
46. T. Fragopoulos, A. Athanasopoulos, A. Vogiatzis, E. Topalis, J. Gialelis, and S. Koubias. Security and DRM in indoor/outdoor heterogeneous networking applications for user-centric frameworks. In *12th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2007)*, 2007. University of Patras, Patras, Greece, September 25-28, 2007.
47. G.C. Alexandridis, A.G. Voyiatzis, and D.N. Serpanos. CryptoPalm: A cryptographic library for PalmOS. In *10th Panhellenic Conference on Informatics (PCI 2005)*. Volos, Greece, November 11-13, 2005.

48. D.N. Serpanos and A.G. Voyiatzis. Increasing symmetric key lifetime by controlled randomness. In *10th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2005)*. Facolta' di Ingegneria, Catania, Italy, September 19–22, 2005.
49. A.G. Voyiatzis and D.N. Serpanos. A fault-injection attack on Fiat-Shamir cryptosystems. In *Assurance in Distributed Systems and Networks 2004 Workshop, during the 24th IEEE International Conference on Distributed Computing Systems (ICDCS 2004)*. Tokyo, Japan, March 23, 2004.
50. A.G. Voyiatzis and D.N. Serpanos. Pulse: A class of super-worms against network infrastructure. In *Assurance in Distributed Systems and Networks 2003 Workshop, during the 23rd IEEE International Conference on Distributed Computing Systems (ICDCS 2003)*. Providence, Rhode Island, USA, May 19, 2003.
51. A.G. Voyiatzis and D.N. Serpanos. An effective active attack on Fiat-Shamir systems. In *2nd International Scientific NATO PFP/PWP Conference Security and Protection of Information (SPI 2003)*. Brno, Czech Republic, April 28–30, 2003.
52. D.N. Serpanos and A.G. Voyiatzis. Secure network design: A layered approach. In *2nd International Workshop on Autonomous Decentralized System (IWADS 2002)*. Beijing, P.R. China, November 6–7, 2002.
53. A.G. Voyiatzis and D.N. Serpanos. Active hardware attacks and proactive countermeasures. In *Proceedings of IEEE ISCC 2002*. Taormina, Italy, July 2–4 2002.

Journal Articles

1. D.E. Simos and R. Kuhn and A.G. Voyiatzis and R. Kacker Combinatorial Methods in Security Testing *IEEE Computer*, 49(10):80-83, 2016
2. S. Neuner, A.G. Voyiatzis, M. Schmiedecker, S. Brunthaler, S. Katzenbeisser, and E.R. Weippl. Time is on my side: Steganography in filesystem metadata. *Digital Investigation*, 18:S76–S86, 2016.
3. D.N. Serpanos and A.G. Voyiatzis. Security Challenges in Embedded Systems. *ACM Transactions on Embedded Systems*, 12(s1):66.1-66.10, 2013.
4. A.G. Voyiatzis. A Survey of Delay- and Disruption-Tolerant Networking Applications. *Journal of Internet Engineering*, 5(1):331-344, 2012.
5. V. Kolonias, A.G. Voyiatzis, G. Goulas, and E. Housos. Design and implementation of an efficient integer count sort in CUDA GPUs. *Concurrency and Computation: Practice and Experience*, 23:2365–2381, 2011.
6. A.G. Voyiatzis and D.N. Serpanos. The security of the Fiat-Shamir scheme in the presence of transient hardware faults. *ACM Transactions on Embedded Systems*, 7(3), April 2008.
7. A.G. Voyiatzis. An introduction to side-channel cryptanalysis of RSA. *ACM Crossroads*, 11(3), Spring 2005. Special Issue on Cryptography.
8. A.G. Voyiatzis and D.N. Serpanos. Pulse: A class of super-worms against network infrastructure. *IEICE Transactions on Communications*, E86-B(10):2971–2974, October 2003. IEICE/IEEE Joint Special Issue in “Assurance Systems and Networks”.
9. Α. Βογιατζής and Δ. Σερπάνος. Ανάλυση Ασφαλείας Επιπέδου Σύνδεσης Δεδομένων για Δίκτυα Τεχνολογίας Bluetooth. *Διμηνιαία Έκδοση Τεχνικά Χρονικά Τ.Ε.Ε.*, 1(1), Ιανουάριος-Φεβρουάριος 2005.

Book Chapters

1. R.C. Staudemayer, A.G. Voyiatzis, G. Moldovan, A. Lioumpas, and D.C. Alonso. Smart cities under attack: Cybercrime and technology response. In A. Mollaem, editor, *Human-Computer Interaction and Cyber Security Handbook*, CRC Press, 2018.

2. A. Judmayer, G. Merzdovnik, J. Ullrich, A.G. Voyiatzis, and E. Weippl. A performance assessment of network address shuffling in IoT systems. In *Computer Aided Systems Theory – EUROCAST 2017, Revised Selected Papers, Part I*, LNCS, pages 197–204. Springer, 2017.
3. P. Kitsos, N. Sklavos, and A.G. Voyiatzis. Ring Oscillators and Hardware Trojan Detection. In N. Sklavos, editor, *Hardware Security and Trust: Design and Deployment of Integrated Circuits in a Threatened Environment*. Springer, 2016.
4. A.G. Voyiatzis. The quest for a killer application for opportunistic delay-tolerant networks. In J. Rodrigues, editor, *Advances in delay-tolerant networks (DTNs): Architectures and enhanced performance*. Woodhead Publishing, 2014.
5. M.G. Iatrou, A.G. Voyiatzis, and D.N. Serpanos. Optimizations for high-performance IPsec execution. In Mohammad S. Obaidat and Joaquim Filipe, editors, *e-Business and Telecommunications*, volume 130 of *Communications in Computer and Information Science*, pages 199–211. Springer Berlin Heidelberg, 2011.
6. A.G. Fragopoulos, D.N. Serpanos, and A.G. Voyiatzis. Design issues in secure embedded systems. In R. Zurawski, editor, *Embedded Systems Handbook, Second Edition*, volume Embedded Systems Design and Verification, pages 18.1–18.31. CRC Press, 2009.
7. A.G. Voyiatzis and D.N. Serpanos. Wireless sensors networks. In C. Douligeris and D.N. Serpanos, editors, *Network Security: Current Status and Future Directions*, pages 375–390. IEEE Press, 2007.
8. K. Stefanidis, A.G. Voyiatzis, and D.N. Serpanos. Grid security. In C. Douligeris and D.N. Serpanos, editors, *Network Security: Current Status and Future Directions*, pages 247–256. IEEE Press, 2007.
9. A.G. Voyiatzis, A.G. Fragopoulos, and D.N. Serpanos. Security issues in design of embedded systems. In R. Zurawski, editor, *The Embedded Systems Handbook*, pages 17.1–17.26. CRC Press, 2006.

Books

1. R. Wenzlofsky and A. Vogiatzis. *Teradata Query Performance Tuning: DWHPro’s Guide*. ISBN 979-8674853954

Service to Research and Academic Community

Research networks

- **Management Committee Member** of COST Action CA15127 “Resilient communication services protecting end-user applications from disaster-based failures (RECODIS)” (3/2016–2/2020). Vice-leader of WG2.
- **Management Committee Member** of COST Action IC1403 “Cryptanalysis of ubiquitous computing systems (CRYPTACUS)” (5/2014–5/2018).
- **Management Committee Substitute Member** of COST Action IC1204 “Trustworthy Manufacturing and Utilization of Secure Devices” (7/2012–6/2016).
- **Associate member** of FP7-NoE “SysSec: A European Network of Excellence in Managing Threats and Vulnerabilities in the Future Internet” (2013–2014).
- **ERCIM Security and Trust Management Working Group** member (2014–2017).

Journals and Conferences

- **Editorial board member** in EAI Endorsed Transactions *Security and Safety*.
- **Guest editor** in Elsevier *ICT Express* - Special Issue on CI & Smart Grid Cyber Security.
- **Book chapter reviewer** in *Empirical Research for Software Security: Foundations and Experience and Privacy in a Digital, Networked World - Technologies, Implications and Solutions*.
- **Journal reviewer** in IEEE Transactions on Industrial Informatics, ACM Transactions on Embedded Computing Systems, IEEE Software, IEEE Network, Proceedings of the IEEE, IEEE TCAS-II, Elsevier Computers & Security, Elsevier Ad Hoc Networks, Elsevier Microprocessors and Microsystems: Embedded Hardware Design, IET Information Security, EURASIP Journal on Information Security, International Journal of Computers and Their Applications, Journal of Internet Engineering.
- **(T)PC member** in CITS 2018, NTMS 2018, ICISSP 2018, ICCISN 2018, IWCMC-Security 2018, ARES 2017, DSD-AHSA 2017, CITS 2017, SpaCCS 2017, CCSTIM 2017, PCI 2017, CICON 2017, IEACon 2017, ISWTA 2017, IWCMC 2017, Collaboratecom 2017, ICISSP 2017, CITS 2016, IWCMC 2016, NTMS 2016, ARES 2016, PCI 2016, EAI PPMH 2016, DSD-AHSA 2016, USENIX Security 2015 Shadow PC, MobiApps-15, CITS 2015, PCI 2015, ICACCI 2015, SSCC 2015, PCI 2014, PCI 2013, TRUST 2012 Socio-economic strand, WESS 2012, ETFA 2012, ICEDSA 2012, ISBEIA 2012 και PCI 2012.
- **Reviewer:** CITS 2018, ICISSP 2018, IWCMC-Security 2018, DSD 2017, ARES 2017, CITS 2017, IFIP SEC 2017, IWCMC 2017, ICISSP 2017, ICACCI 2017, SSCC 2017, ICDF2C 2017, PCI 2017, COLLABORATE-COM 2017, SpaCCS 2017, ACM CCS 2016, NTMS 2016, ARES 2016, WWIC 2016, ISTA 2016, ICACCI 2016, ICT 2016, DSD 2016, DBSec 2015, ICEED 2015, SSCC 2015, MECO 2015, MobiApps-15, CITS 2015, ICSSA 2015, IEEE SPICES 2015, ICCSCE 2014, ICoSTechS 2014, ICACCI 2014, ICED 2014, GSCIT 2014, ICSPCT 2014, IEEE ICCSCE 2013, IEEE INDIN 2013, IEEE ISWTA 2013, IEEE SHUSER 2013, IEEE BEIAC 2013, ACM CHI 2013, ACM CHI WIP 2013, APHS 2012, IEEE ICIT 2012, ACM CHI 2012 (EA), TRUST 2012 (SES), ETFA 2012, IEEE ISBEIA 2012, IEEE PECON 2012, CHUSER 2012, ICEDSA 2012, ISCAIE 2012, SCORED 2012, IEEE INDIN 2011, IEEE ICT 2011, IEEE INDIN 2010, IEEE ETFA 2009, IASTED PDCN 2009, IEEE ISADS 2009, IEEE AISPC 2008, IEEE ETFA 2007, IEEE ISCC 2007, IEEE ISCC 2005, IEEE ICC 2005 και Networking 2004.
- **Session chair** in Android Security Symposium 2017, DBSec 2016, ESORICS 2015 and SECRIPT 2009 conferences.

Teaching Experience

- Adjunct Lecturer, teaching “**Computer and Network Security**” (M.Sc. course) at the Open University of Cyprus (academic year 2017-2018).
- Adjunct Lecturer, teaching “**Introduction to Security**” and “**Selected Topics in Information Security**” (B.Sc. courses) at the TU Wien, Austria (academic year 2015-2016 and 2016-2017)).
- Visiting Professor, giving lectures for the course “**Principles of Security Systems**” of the “Technologies and Infrastructures for Broadband Applications and Services” Postgraduate Studies Program of the TEI of Western Greece, Greece (academic year 2015-2016).
- Assigned as one of the lecturers for the course “**Sensors, Microprocessors, and Data Collection Systems**” of the “Electronics and Processing of Information” Postgraduate Studies Program of the University of Patras, Greece (academic year 2009-2010).
- **Advisor** for four M.Sc. theses of the “Computer and Network Security” Postgraduate Studies Program of the Open University of Cyprus, Cyprus (2017-2018).
- **Examination committee member** for one M.Sc. thesis of the “Electronics and Processing of Information” Postgraduate Studies Program of the University of Patras, Greece (2015).

- **Advising committee member** for one Ph.D. thesis of the Department of Electrical and Computer Engineering, University of Patras, Greece (2014–2018).
- **Supervised six diploma theses** for the Department of Electrical and Computer Engineering, University of Patras, Greece: G.C. Alexandridis (2005), M.G. Iatrou (2008), N.D. Kliaoudatos (2010), P. Soufrilas (2011), P. Theodorogiannakis (2012), and D. Konstantakos (2013).
- **Teaching assistant** for “High-Speed Networks Architecture” postgraduate course (Spring 2005), “Special Topics on Internet Software Systems” undergraduate course (Spring 2002, Spring 2003, Spring 2004), “Security Systems” postgraduate course (Fall 2004), and “Introduction to Computers” course (Fall 2002) at the Department of Electrical and Computer Engineering, University of Patras, Greece.
- **Teaching assistant** for “Secure Systems” postgraduate course (Spring 2000) at the Department of Computer Science, University of Crete, Greece.

Invited Lectures, Seminars, Talks, and Presentations

- Α.Γ. Βογιατζής. “**Ψηφιακός μετασχηματισμός και καινοτομία επιχειρήσεων τουρισμού: Ποιούς αφορά;**”. Προσκεκλημένη διάλεξη στο πλαίσιο του ΠΜΣ “Διοίκηση Τουριστικών Προορισμών και Επιχειρήσεων” του Τμήματος Διοίκησης Τουρισμού του Πανεπιστημίου Πατρών, Πάτρα, Ελλάδα, 07 Μαΐου 2025.
- A.G. Voyiatzis. “**Engineering Lifetime Information Security**”. 5th Through-life Engineering Services Summer School, Cranfield University, UK, June 8, 2017.
- A.G. Voyiatzis. “**Transport Layer Security beyond crypto – notary services and certificate pinning to the rescue?**”. BSides Vienna 2016, Vienna, Austria, November 12, 2016.
- A.G. Voyiatzis. “**Security Challenges in Disruption- and Delay-Tolerant Networks (DTN)**”. Invited talk, University of Passau, Germany, February 18, 2016.
- A.G. Voyiatzis. “**Security Challenged in Industrial Systems**”. Invited talk, Vienna ACM SIGSAC Chapter, Vienna, Austria, August 26, 2014.
- A.G. Voyiatzis. “**DTN Systems**”. Invited speaker, SPICE project final event, Xanthi, Greece, June 10, 2014.
- A.G. Voyiatzis. “**DTN security in DISCOS**”. CCSDS Fall 2012 Meeting series, Cleveland, Ohio, USA, October 18, 2012.
- A.G. Voyiatzis. “**Extending DTN into Earth: A Survey of System Implementations and Application Domains**”. Distinguished Speaker Series, Space Internetworking Center, Xanthi, Greece, May 8, 2012.
- Χ. Φεΐδας και Α.Γ. Βογιατζής. «**Ευχρηστία και Ασφάλεια στο Διαδίκτυο**». Στην Επιστημονική Ημερίδα «Η Επιστήμη του Παγκόσμιου Ιστού: Δραστηριότητες στο Πανεπιστήμιο Πατρών», Πάτρα, Ελλάδα, 14 Ιουλίου 2010.
- A.G. Voyiatzis. “**Wireless Sensor Networks**”. Διάλεξη στο πλαίσιο του ΔΠΜΣ «Ηλεκτρονική και Επεξεργασία της Πληροφορίας» (ΗΕΠ), Πανεπιστήμιο Πατρών, 19 Ιανουαρίου 2010.
- Α.Γ. Βογιατζής. «**Ασφαλής χρήση Διαδικτύου: Προστασία από κακόβουλο λογισμικό**». Δημερίδα «Σύγχρονες Εφαρμογές Υπολογιστών και Διαδίκτυο» του Local BEST Group Patras, Πάτρα, Ελλάδα, 25-26 Μαΐου 2009.
- Α.Γ. Βογιατζής. «**Θέματα Ασφάλειας σε Ασύρματα Δίκτυα Αισθητήρων**». Διάλεξη στα πλαίσια του ΔΠΜΣ «Ηλεκτρονική και Επεξεργασία της Πληροφορίας» (ΗΕΠ) του Πανεπιστημίου Πατρών, 15 Δεκεμβρίου 2008.
- A.G. Voyiatzis. “**An Introduction to Active Hardware Attacks on Cryptosystems**”. Στο 4ο Πανελλήνιο Συνέδριο «Ηλεκτρονικό Έγκλημα 2006: Δικτυοπειρατεία, Τηλεπικοινωνιακή Παρανομία & Απάτη», Αθήνα, Ελλάδα, 24-26 Οκτωβρίου 2006.

- A.G. Voyiatzis and D.N. Serpanos. “**Bluetooth Security: Link Layer Weaknesses**”. In “WLAN Security 2002” conference. Paris, France, June 25-28, 2002.

Dissemination and Outreach

- **Patras Tech Talk meetup** co-organizer, bringing together the tech community of Patras, Greece (2023–today).
- **EUREKA Expert** evaluator (2019 and 2024).
- **Python for Kids** extra-curriculum activity tutor for elementary school students, Vienna International School, Vienna, Austria (3–6/2018).
- **ERCIM Outreach Task Group** member (2013–2017).
- **Editorial Board Member** for the “ERCIM News” magazine (2012–2017).
- **Independent External Expert** of the **COST Association** (2016–2017).
- **Chapter Secretary** and **Member** of the Vienna ACM SIGSAC Chapter (2016–2017).
- **Member** the Association of Greek Researchers (2011–2016).
- **Awards & Contests Associate Editor** for the Official Newsletter of the Greece IEEE Section (2011–2012).
- **Student Liaison** of the ACM Crossroads magazine at the University of Patras (2003–2008) and the University of Crete (1999–2001).