

PERSONAL INFORMATION

Konstantinos Fysarakis, PhD

+306947899480

kostas@fysarakis.com (professional), shamankf@gmail.com (personal)

<http://www.fysarakis.com>

Sex Male | Date of birth 23 April 1981 | Nationality Greek

RESEARCH INTERESTS

My research interests revolve around the security, dependability and sustainability challenges, and the associated opportunities, that arise with the wider adoption of ubiquitous computing and the introduction of smart ecosystems in various vertical domains. Said challenges include the provision of lightweight, usable cryptographic primitives, authentication and authorization mechanisms for heterogeneous devices, providing seamless H2M and M2M interactions. I am also interested in the various privacy and trust issues that must be addressed in the context of sustainable Internet of Things (IoT) applications. I also teach Information Security -related undergraduate and postgraduate courses, I am a member of the IEEE and serve as a reviewer for various academic venues in my areas of expertise. In addition to my research and academic activities, I enjoy working on industry-related tasks, dealing with IT Risk Management and Information Security Management issues in particular, being an IRCA certified ISO 27001 auditor.

EDUCATION

2012 – 2016

PhD in Electronic and Computer Engineering

Dept. of Electronic and Computer Engineering, Technical University of Crete, Chania, Crete (Greece)

Embedded Systems Security (“uSPBM - Secure Policy-based Management of Ubiquitous Smart Devices”)

2006 – 2007

MSc with Distinction in Information Security

Information Security Group, Dept. of Mathematics, Royal Holloway, University of London, Egham, Surrey (United Kingdom)

Information Security. Thesis: “Voice over IP Security: Threat Analysis and Countermeasures”

1999 – 2006

BSc in Applied Mathematics

Department of Applied Mathematics, School of Sciences & Technology, University of Crete, Heraklion, Crete (Greece)

Mathematical Modelling and Software Development pathway

WORK EXPERIENCE

May 2018 – Today

Chief Technology Officer

Sphynx Technology Solutions AG (Switzerland)

Responsible for scientific and technological activities' management and coordination.

Research Projects:

- “SEMIoTICS”, H2020 EU Framework Programme (H2020-IOT-2017), aiming to develop a pattern-driven framework, built upon existing IoT platforms, to enable and guarantee secure and dependable actuation and semi-autonomic behaviour in IoT/IIoT applications.
- “RESIST”, H2020 EU Framework Programme (H2020-MG-2016-2017) aimed at increasing the resilience of seamless transport operation to natural and man-made extreme events, protect the users of the European transport infrastructure and provide optimal information to the operators and users of the infrastructure.
- “THREAT-ARREST”, H2020 EU Framework Programme (H2020-DS-2016-2017), developing an advanced cybersecurity training platform to adequately prepare stakeholders in defending high-

risk cyber systems and organizations to counter advanced, known and new cyber-attacks.

- “BIO_PHOENIX”, H2020 EU Framework Programme (Marie Skłodowska-Curie), developing a bio-inspired paradigm for reconstructing nearly extinct complex software systems based on a novel computational DNA (co-DNA) oriented systems modelling approach.
- “HOLOBALANCE”, H2020 EU Framework Programme (H2020-SC1-2017-CNECT-1), developing a new personalized hologram coach platform for virtual coaching, motivation and empowerment of the ageing population with balance disorders.

January 2018 – April 2018

Seconded Researcher

Cablenet Communication Systems Ltd, Nicosia (Cyprus)

Research secondment in the context of project “CyberSure (CYBER Security InSURance — A Framework for Liability Based Trust)”, H2020 EU Framework Programme (Marie Skłodowska-Curie) aimed at developing a framework for creating and managing cyber insurance policy for cyber systems, working on the design and development of the CyberSure platform.

February 2016 – April 2018

Postdoctoral Researcher

Institute of Computer Science (ICS), Foundation of Research and Technology - Hellas (FORTH), Heraklion, Crete (Greece)

Projects:

- “VirtuWind (Virtual and programmable industrial network prototype deployed in operational wind park)”, H2020 EU Framework Programme (H2020-ICT-2014-2 call), focused on the development and demonstration of an SDN & NFV ecosystem, based on an open, modular and secure framework, deployed in real wind parks as a representative use case of industrial networks.
- “SHARCS (Secure Hardware-Software Architectures for Robust Computing Systems)”, H2020 EU Framework Programme (H2020-ICT-2014-1 call). Focused on designing, building and demonstrating secure-by-design ICT system architectures that achieve end-to-end security for their users.
- “CIPSEC (Enhancing Critical Infrastructure Protection with innovative SECurity framework)”, H2020 EU Framework Programme (H2020-DS-2015-1 call), aiming to create a unified security framework that orchestrates state-of-the-art heterogeneous security products to offer high levels of protection in IT (information technology) and OT (operational technology) departments of Critical Infrastructures.
- “CyberSure (CYBER Security InSURance — A Framework for Liability Based Trust)”, H2020 EU Framework Programme (Marie Skłodowska-Curie) aimed at developing a framework for creating and managing cyber insurance policy for cyber systems.

Responsible for the design, implementation and validation of security architectures and the associated security mechanisms, in the context of the projects' corresponding aims.

November 2015 – January 2016

Researcher

Telecommunication Systems Research Institute (T.S.I.), Chania, Crete (Greece)

Project: “Novel, Comprehensible, Ultra-Fast, Security-Aware CPS Simulator” (COSSIM), H2020 EU Framework Programme for Research and Innovation (H2020-ICT-2014-1 call). Focused on the design and implementation of a novel, comprehensible, ultra-fast, security-aware Cyber-Physical System simulator.

Responsible for auditing the simulator's supported security mechanisms and advising on their implementation approach.

September 2014 – September
2015

R&D Engineer

Technological Educational Institute of Crete, Heraklion, Crete (Greece)

Project: ENTOMATIC, FP7 EU project (FP7-SME-2013 call). Focused on the development of a novel embedded platform as an automatic and stand-alone integrated pest management tool with remote count and bioacoustic identification.

Responsible for the development of the embedded software, the associated backend monitoring platform and their secure communication and data storage. Consulting on embedded hardware specifications. Responsible for administrative & project management tasks, writing and submitting deliverables, and attending project meetings.

June 2014 – October 2014

R&D Engineer

Hellenic Aerospace Industry S.A. (HAI)

Project: "new embedded Systems architecture for multi-Layer Dependable solutions" (nSHIELD), FP7 EU project (ARTEMIS-2010-1 call). Focused on the research of SPD (Security, Privacy, Dependability) in the context of Embedded Systems.

R&D on policy-based management of embedded devices. Demonstrator setup and presentation of developed mechanisms. Work package management and associated deliverable submission.

November 2011 – January 2015

Researcher

Dept. of Electronic & Computer Engineering, Technical University of Crete, Chania, Crete (Greece)

Project: "new embedded Systems architecture for multi-Layer Dependable solutions - nSHIELD", FP7 EU project (ARTEMIS-2010-1 call). Focused on the research of SPD (Security, Privacy, Dependability) in the context of Embedded Systems.

Responsible for developing various prototypes/technologies for embedded devices and wireless sensors (Anonymity & Location Privacy, lightweight access control mechanisms, use of Service Oriented Architectures for seamless machine-to-machine interactions, GPGPU programming, application of lightweight ciphers, wireless sensors etc.). Demonstrators' setup and presentations at review meetings. Administrative and management tasks.

May 2008 – May 2009

Private

Hellenic Army, (Greece)

Military service.

Business or sector Military

January 2008 – May 2008

Systems Administrator

Diadyo OE, Heraklion, Crete (Greece)

Volunteer work as Systems Administrator. Expansion, upgrade and security hardening of network infrastructure.

Business or sector Web Development and IT Services

February 2005 – May 2005

Internship Student

Foundation of Research and Technology (FORTH), Institute of Computational Mathematics, Heraklion, Crete (Greece)

Research on computational mathematics

June 2001 – September 2002

Part-time Student Staff

Networks and Telecommunications Centre (UCNET), University of Crete, Heraklion, Crete (Greece)

Web development (PHP, ASP, MySQL, MS SQL), Helpdesk support, Network administration

Business or sector IT Services and Network Operations Centre

TEACHING EXPERIENCE

February 2016 – February 2018

Adjunct Lecturer

Dept. of Informatics Engineering, Technological Educational Institute of Crete, Heraklion, Crete (Greece)

Responsible for teaching the "Information Systems Security" and "Network Security" undergraduate modules and the "Network Security" postgraduate module. Production of course material, presentations, weekly assignments and projects. Theses supervision on Information Security topics.

Business or sector Academic/Teaching15 July 2013 – 26 July 2013 &
21 July 2014 – 1 August 2014**Tutor**

ERASMUS intensive programme on "Pervasive Networks and Service Infrastructures" - PERSEUS, Heraklion, Crete (Greece)

Responsible for the "Security Issues in Pervasive Computing" course.

Business or sector Academic/Teaching

October 2009 – June 2015

Adjunct Assistant Laboratory Professor

Dept. of Informatics Engineering and Dept. of Sciences, Technological Educational Institute of Crete, Heraklion, Crete (Greece)

Responsible for teaching Laboratory classes of the "Information Systems Security", "Network Security", "Operating Systems", "Artificial Intelligence And Expert Systems", "Computer Programming I" and "Introduction to Computers" postgraduate and undergraduate modules. Production of course material, presentations, weekly assignments and projects. Theses supervision on Information Security topics.

Business or sector Academic/Teaching**TRAINING**

November 2012 – January 2013

Cryptography I course

Stanford University / Coursera Inc.

Online course.

8-12 March 2010

IRCA certified ISMS (ISO 27001) auditor training

ISOQAR Ltd, UK accredited certification body, Athens (Greece)

Training provides information security professionals with the knowledge and skills required to assess the conformance of an organization's information security management system to ISO 27001.

14-18 September 2009

ENISA-FORTH Summer School on Network & Information Security

"Privacy and Trust in a Networked World", European Network and Information Security Agency (ENISA), Foundation for Research and Technology – Hellas (FORTH), Crete, Greece

Summer School

16 February 2007

KPMG Hacker Bootcamp

KPMG / Information Security Group, Royal Holloway, University of London, Egham, Surrey (United Kingdom)

Technical Training

8-9 February 2007

Foundstone Ultimate Web Hacking Course

McAfee Foundstone / Information Security Group, Royal Holloway, University of London, Egham, Surrey (United Kingdom)

Technical Training

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English (University of Cambridge) Certificate of Proficiency in English (University of Michigan)					
German	A2	B2	A2	A2	B2
Zertifikat Deutsch als Fremdsprache, Goethe Institut					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Computer skills Operating Systems Security (Linux, MacOS, Windows), Security / Penetration Testing Suites & Network Tools (Kali, Metasploit, Nessus, snort etc.), Programming (C, C++, Java, NodeJS, FORTRAN, Matlab, Prolog), Parallel Programming (MPI, OpenMP, CUDA), Software Defined Networks (OpenFlow, OpenDayLight, Open vSwitch), Service Oriented Architectures, Sensor Networks (TinyOS, Contiki), Network Simulators (Cooja), Databases (MySQL, PostgreSQL, MongoDB), Mathematical Modelling, Computational Simulations.

Driving licence B1, B

ADDITIONAL INFORMATION

Distinctions, Awards & Scholarships

- "Acquisition of academic teaching experience for young PhD-holder scientists" Scholarship, NSRF (National Strategic Reference Framework) 2014-2020, October 2016, February 2017, October 2017.
- "Further Education and Specialization" Scholarship, ICS-FORTH, February 2016
- Best Research Paper Finalist (Top 5), at Cyber Security Awareness Week (CSAW'16), Applied Research Competition – Abu Dhabi, UAE for paper "RTVMF – A Secure Real-time Vehicle Management Framework", K. Fysarakis, G. Hatzivasilis, C. Manifavas and I. Papaefstathiou, IEEE Pervasive Computing
- Distinction in MSc in Information Security, Royal Holloway, University of London. Ranked 6th out of 125 students.

Presentations / Seminars / Other

- Demonstration of Network Programmability and Reactive Security for 5G-enabled Wind Park Networks, WindEurope Conference & Exhibition, 28-30 Nov. 2017, Amsterdam, The Netherlands
- Demonstration of MANO-driven SFC-Enabled Reactive Security for Industrial 5G Networks, Fog World Congress, 30 Oct. – 1 Nov. 2017, Santa Clara, CA, USA
- Demonstration of Reactive Security framework for an SDN/NFV-enabled wind park communication network, 2nd Global 5G Event, 9-10 Nov. 2016, Rome, Italy
- Cyber Security, & Privacy Challenges for Law Enforcement, CySPLE15, European Network and Information Security Agency (ENISA), Heraklion Chamber of Commerce and Industry (HCCI). Invited speaker ("Securing the Internet of Things - Embedded Systems Security Challenges in the era of Ubiquitous Computing"). 18-19 May 2015, Heraklion, Crete, Greece
- Wireless Days IEEE Conference (WD2013), 13-15 Nov. 2013, Valencia, Spain
- Greek Cyber War Exercise "PANOPTIS 2011"
- AthCon, European IT Security Conference, Cyberdefend Ltd., 3-4 June 3-4 2010, Athens, Greece

Other Academic Activities

- Chair/co-chair, Panel Chair and Member of Programme and/or Local Arrangements Committees of international conferences (e.g. IEEE CAMAD 2018, IEEE ISCC 2017, ESORICS 2016, WISTP 2016/2017, TRUST 2016/2017, SPIoT 2017, HAS 2016)
- Reviewer for academic journals (IEEE Transactions on Network and Service Management, IEEE Transactions on Dependable and Secure Computing, Elsevier Transactions on Emerging Telecommunications Technologies, IEEE Journal on Selected Areas in Communications, IEEE Software, Information Security Journal: A Global Perspective, IEEE

Systems Journal)

- Active participation in the 5G-PPP/5G-IA Security Working Group
- Member of the IEEE (since 2013)

Journal Publications

- J12. "The Industrial Internet of Things as an enabler for a Circular Economy; Hy-LP: A novel IIoT Protocol, evaluated on a Wind Park's SDN/NFV-enabled 5G Industrial Network", G. Hatzivasilis, K. Fysarakis, O. Soultatos, I. Askoxylakis, I. Papaefstathiou, G. Demetriou, *Computer Communications Journal*, Elsevier, 2018 (DOI:10.1016/j.comcom.2018.02.0079) [IF: 3.338]
- J11. "Reactive Security for SDN/NFV-enabled Industrial Networks Leveraging Service Function Chaining", N. Petroulakis, K. Fysarakis, I. Askoxylakis, and G. Spanoudakis, *Transactions on Emerging Telecommunications Technologies*, Wiley, 2017. (DOI:10.1002/ett.3269) [IF: 1.53]
- J10. "A review of lightweight block ciphers", G. Hatzivasilis, K. Fysarakis, I. Papaefstathiou, and C. Manifavas, *Journal of Cryptographic Engineering (JCEN)*, Springer, 2017. (DOI:10.1007/s13389-017-0160-y)
- J9. "XSACd - Cross-domain Resource Sharing & Access Control for Smart Environments", K. Fysarakis, O. Soultatos, C. Manifavas, I. Papaefstathiou and I. Askoxylakis, *Special issue on Security, Privacy and Trust of the User-centric Solutions, Future Generation Computer Systems*, Elsevier, 2016. (DOI:10.1016/j.future.2016.05.023) [IF: 3.997]
- J8. "A survey of lightweight stream ciphers for embedded systems", C. Manifavas, G. Hatzivasilis, K. Fysarakis and I. Papaefstathiou, *Security and Communication Networks*, 9: 1226–1246, Wiley, 2015. (DOI:10.1002/sec.1399) [IF: 1.067]
- J7. "Insect Biometrics: Optoacoustic Signal Processing and Its Applications to Remote Monitoring of McPhail Type Traps", I. Potamitis, I. Rigakis, K. Fysarakis, *PLoS ONE* 10(11): e0140474. (DOI:10.1371/journal.pone.0140474) [IF: 2.806]
- J6. "RtVMF - A Secure Real-time Vehicle Management Framework", K. Fysarakis, G. Hatzivasilis, C. Manifavas and I. Papaefstathiou, *IEEE Pervasive Computing*, vol.15, no.1, pp.22-30, Jan.-Mar. 2016. (DOI:10.1109/MPRV.2016.15) [IF: 3.250]
- J5. "Node.DPWS: Efficient Web Services for the IoT", K.Fysarakis, D. Mylonakis, C. Manifavas and I. Papaefstathiou, *IEEE Software*, vol. 33, no. 3, pp. 60-67, May-June 2016. (DOI:10.1109/MS.2015.155) [IF: 2.190]
- J4. "Policy-controlled authenticated access to LLN-connected healthcare resources", K. Rantos, K.Fysarakis, C. Manifavas and I. Askoxylakis, *IEEE Systems Journal*, vol.PP, no.99, pp.1,11, 2015. (DOI: 0.1109/JSYST.2015.2450313) [IF: 3.882]
- J3. "The Electronic McPhail Trap", I. Potamitis, I. Rigakis, K. Fysarakis, *Sensors*, 14(12):22285-22299, 2014. (DOI: 10.3390/s141222285) [IF: 2.677]
- J2. "Embedded Systems Security: A Survey of EU Research Efforts", C. Manifavas, K. Fysarakis, A. Papanikolaou and I. Papaefstathiou, *Security and Communication Networks*, Wiley, 2014. (DOI: 10.1002/sec.1151) [IF: 1.067]
- J1. "How effective is your security awareness program? – An evaluation methodology", K. Rantos, K. Fysarakis, C. Manifavas, *Information Security Journal: A Global Perspective*, The official journal of (ISC)², Taylor & Francis, 21:6, 328-345, 2012. (DOI: 10.1080/19393555.2012.747234)

Conference Publications

- C22. "Towards a Security, Privacy, Dependability, Interoperability Framework for the Internet of Things", O. Soultatos, G. Spanoudakis, K. Fysarakis, I. Askoxylakis, G. Alexandris, A. Miaoudakis, and N. Petroulakis, *IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD) 2018*, Barcelona, Spain, Sept. 17-19, 2018.
- C21. "The Interoperability of Things", G. Hatzivasilis, I. Askoxylakis, G. Alexandris, D. Anicic, V. Kulkarni, K. Fysarakis, and G. Spanoudakis, *IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD) 2018*, Barcelona, Spain, Sept. 17-19, 2018.
- C20. "CloudNet Anti-Malware Engine: GPU-Accelerated Network Monitoring for Cloud Services", G. Hatzivasilis, K. Fysarakis, I. Askoxylakis, and A. Bilanakos, *International Workshop on Information & Operational Technology (IT & OT) Security Systems (IOSec)*, collocated with the 21st International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2018), Heraklion, Crete, Greece, Sept. 13, 2018.
- C19. "SeMIBIoT: Secure Multi-protocol Integration Bridge for the IoT", E. Palavras, K. Fysarakis, I. Papaefstathiou, and I. Askoxylakis, *IEEE International Conference on Communications (IEEE ICC), Communications QoS, Reliability, and Modeling Symposium (CQRM)*, Kansas City,

- MO, USA, May 20-24, 2018.
- C18. "VirtuWind - An SDN- and NFV-based Architecture for Softwarized Industrial Networks", E. Sakic, V. Kulkarni, V. Theodorou, A. Matsiuk, S. Kuenzer, Nikolaos E Petroulakis, and K. Fysarakis, 19th International GI/ITG Conference on "Measurement, Modelling and Evaluation of Computing Systems" (MMB 2018), Erlangen, Germany, Feb. 26-28, 2018.
- C17. "A Reactive Security Framework for Operational Wind Parks Using Service Function Chaining", K. Fysarakis, N. Petroulakis, A. Roos, K. Abbasi, P. Vizarreta, G. Petropoulos, E. Sakic, G. Spanoudakis, and I. Askoxylakis, 22nd IEEE Symposium on Computers and Communications, Heraklion, Crete, Greece, July 3-6, 2017.
- C16. "Lightweight & Secure Industrial IoT Communications via the MQ Telemetry Transport Protocol", S. Katsikeas, K. Fysarakis, A. Miaoudakis, A. V. Bemten, I. Askoxylakis, I. Papaefstathiou and A. Plemenos, 22nd IEEE Symposium on Computers and Communications, Heraklion, Crete, Greece, July 3-6, 2017.
- C15. "SecRoute: End-to-End Secure Communications for Wireless Adhoc Networks", G. Hatzivasilis, I. Papaefstathiou, K. Fysarakis, and I. Askoxylakis, 22nd IEEE Symposium on Computers and Communications, Heraklion, Crete, Greece, July 3-6, 2017.
- C14. "Which IoT Protocol? Comparing standardized approaches over a common M2M application", K. Fysarakis, O. Soutatos, I. Askoxylakis, C. Manifavas, I. Papaefstathiou and V. Katos, IEEE Global Communications Conference (GLOBECOM 2016), Washington, DC, USA, Dec. 4-8, 2016. (Presenter)
- C13. "WSACd - A Usable Access Control Framework for Smart Home Devices", K. Fysarakis, C. Konstantourakis, K. Rantos, C. Manifavas and I. Papaefstathiou, 9th WISTP International Conference on Information Security Theory and Practice (WISTP 2015), Heraklion, Crete, Greece, Aug. 24-25, 2015. (Presenter)
- C12. "Secure and Authenticated Access to LLN Resources Through Policy Constraints", K. Rantos, K. Fysarakis, O. Soutatos and I. Askoxylakis, 9th WISTP International Conference on Information Security Theory and Practice (WISTP 2015), Heraklion, Crete, Greece, Aug. 24-25, 2015. (Presenter)
- C11. "RT-SPDM: Real-time Security Privacy & Dependability Management of Heterogeneous Systems", K. Fysarakis, G. Hatzivasilis, I. Askoxylakis and C. Manifavas, 3rd Int. Conference on Human Aspects of Information Security, Privacy and Trust (HAS 2015), within the 17th Int. Conference on Human-Computer Interaction (HCI 2015), Los Angeles, USA, Aug. 2-7 2015.
- C10. "Hardware implementation of a system classifying the optoacoustic signature of insect wing flap", I. Potamitis, K. Fysarakis, D. Longueville and S. Ntalampiras, 22nd International Congress on Sound and Vibration, Florence, Italy, July 12-16, 2015.
- C9. "Policy-based Access Control for DPWS-enabled Ubiquitous Devices", K. Fysarakis, K. Rantos, O. Sultatos, C. Manifavas and I. Papaefstathiou, 19th IEEE International Conference on Emerging Technologies and Factory Automation (ETF A 2014), Barcelona, Spain, Sept. 16-19, 2014. (Presenter)
- C8. "An efficient Anti-Malware Intrusion Detection System implementation, exploiting GPUs", I. Papaefstathiou, A. Bilanakos, K. Fysarakis, G. Hatzivasilis and C. Manifavas, International Conference on Advanced Technology & Sciences (ICAT 2014), Antalya, Turkey, Aug. 12-15, 2014.
- C7. "Policy-based Access Control for Body Sensor Networks", C. Manifavas, K. Fysarakis, K. Rantos, K. Kagiambakis and I. Papaefstathiou, 8th Workshop in Information Security Theory & Practice (WISTP 2014), Heraklion, Crete, Greece, Jun. 30 - Jul. 02, 2014. (Presenter)
- C6. "DSAPE - Dynamic Security Awareness Program Evaluation", C. Manifavas, K. Fysarakis, K. Rantos and G. Hatzivasilis, Human Aspects of Information Security, Privacy and Trust thematic area, within the 16th International Conference on Human-Computer Interaction (HCI International 2014), Heraklion, Crete, Greece, Jun. 22 - 27, 2014.
- C5. "Embedded Systems Security Challenges", K. Fysarakis, K. Rantos, A. Papanikolaou, G. Hatzivasilis and C. Manifavas, Measurable security for Embedded Computing and Communication Systems (MeSeCCS 2014), within the International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS 2014), Lisbon, Portugal, Jan. 7-9, 2014
- C4. "A Lightweight Anonymity & Location Privacy Service", K. Fysarakis, A. Adamopoulos, C. Manifavas, I. Papaefstathiou, 13th IEEE Symposium on Signal Processing and Information Technology (ISSPIT), Athens, Greece, Dec. 12-15, 2013. (Presenter)
- C3. "Lightweight Cryptography for Embedded Systems – A Comparative Analysis", G. Hatzivasilis, K. Fysarakis, C. Manifavas and K. Rantos. 6th International Workshop on Autonomous and Spontaneous Security (SETOP 2013), Egham, UK, Sep. 12-13, 2013.
- C2. "Secure Policy-Based Management Solutions in Heterogeneous Embedded Systems

Networks”, K. Rantos, A. Papanikolaou, K. Fysarakis and C. Manifavas, IEEE International Conference on Telecommunications & Multimedia (TEMU 2012), Heraklion, Greece, Jul. 30 – Aug. 1, 2012. (Presenter)

- C1. “Embedded Systems Security, Aspects of secure embedded systems design and implementation”, K. Fysarakis, C. Manifavas, K. Rantos., 10th International Symposium on Ambient Intelligence and Embedded Systems (AMIES 2011), Chania, Greece, Sept. 22-24, 2011. (Presenter)

Book Chapters

- B1. “Security Concerns in Co-operative Intelligent Transportation Systems”, K. Fysarakis, I. Askoxylakis, V. Katos, S. Ioannidis, L. Marinos. In “Intrusion Detection and Prevention for Mobile Ecosystems” (G. Kambourakis, A. Shabtai, K. Kolias, and D. Damopoulos, eds.), CRC Series in Security, Privacy and Trust, Taylor & Francis LLC, 2017. (ISBN: 9781138033573)
- B2. “Slicing / Virtualisation and Strong Isolation” Chapter (K. Fysarakis, ed.), 5G-PPP Phase 1 Security Landscape White Paper, 5G-PPP Security Working Group, March 2017.
- B3. “SHIELD Technology Demonstrators”, M. Cesena, C. Regazzoni, L. Marcenaro, G. Hatzivasilis, K. Fysarakis, C. Manifavas, I. Papaefstathiou, P. Azzoni, and K. Stefanidis, In “Measurable and Composable Security, Privacy, and Dependability for Cyberphysical Systems: The SHIELD Methodology” (A. Fiaschetti, J. Noll, P. Azzoni, R. Uribeetxeberria, eds.), CRC Press, Taylor & Francis LLC, 2017 (ISBN: 9781138042759)

Supervised Theses

- “Lightweight access control framework for IoT devices”, A. Pitsiladi, MSc Thesis, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2017.
- “Internet of Things Security”, N. Tzounakos, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2017.
- “A Secure Network-Layer Bridge for Wireless Sensor Networks”, E. Palavras, Dept. of Electronic & Computer Engineering, Technical University of Crete, 2017.
- “A lightweight and secure MQTT implementation for Wireless Sensor Nodes”, S. Katsikeas, Dept. of Electronic & Computer Engineering, Technical University of Crete, 2016.
- “Secure Monitoring & Management of Smart Vehicles via Wireless Sensors”, K. Roumpakis and S. Manousakis, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2015.
- “CoAP-enabled Sensors for the Internet of Things”, E. Raptopoulou, A. Argiropoulou, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2014.
- “Phishing & Identity Theft on the Web”, D. Lykos, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2014.
- “Implementing DPWS with XACML using OSGi infrastructure”, O. Soultatos, Dept. of Computer Science, University of Crete, 2014.
- “An efficient Anti-Malware Intrusion Detection System implementation, exploiting GPUs”, A. Bilanakos, Dept. of Computer Science, University of Crete, 2014.
- “A lightweight Devices Profile for Web Services (DPWS) Access Control implementation for heterogeneous devices & networks”, D. Mylonakis, Dept. of Computer Science, University of Crete, 2014.
- “E-mail Security”, M. Vargiakaki, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2013.
- “Transaction Security in e-Booking Systems”, E. Fountoukidis, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2013.
- “Public Key Infrastructure (PKI) on Windows Server 2008 R2 platforms”, M. Kosmadaki and A. Maragkaki, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2013.
- “Security of e-Commerce platforms”, N. Aivaliotis, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2012.
- “VoIP Security”, N. Lampraki, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2012.
- “Data Protection in Personal Computers”, M. Mountokalakis, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2011.
- “Content Management Systems (CMS): Security Analysis & Evaluation”, B. Koutsotoliou, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2010.
- “Security in 802.11 Wireless Networks”, A. Markomanolaki, Dept. of Informatics Engineering, Technological Educational Institute of Crete, 2010.



Curriculum Vitae