

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name (Surname, First name)	DR. MANIFAVAS, CHARALAMPOS (HARRY)
Address	Ieroloxiton 8, 71305 Heraklion, Crete
Telephone	+30 6944 620121
E-mail	harryman@ie.teicrete.gr , manifava@csd.uoc.gr , harryman@otenet.gr
Nationality	Greek / British
Date of birth	07.12.1968
Gender	Male
Marital status	Married, 1 child

EDUCATION

- Dates (from – to) October 1995 to May 2000
- Name and type of organisation providing education and training University of Cambridge, Cambridge, United Kingdom
Computer Laboratory, Security Group
<http://www.cl.cam.ac.uk/research/security/>
- Principal subjects/occupational skills covered Thesis title: 'Micropayment Transaction Costs'
 - Secure Electronic Payment Protocols
 - Public Key Infrastructures
 - Authentication Protocols
 - Intellectual Property Protection
- Title of qualification awarded **Ph.D. Computer Security**

- Dates (from – to) September 1993 to October 1994
- Name and type of organisation providing education and training University of Kent, Canterbury, United Kingdom
School of Engineering
<http://www.ee.kent.ac.uk/department/>
- Principal subjects/occupational skills covered Thesis title: 'Analysis, Modeling and Implementation of a VBR Video Traffic for ATM Networks'
 - Information Theory, Coding and Digital Signal Processing
 - Computer, Satellite, Microwave and Optical Communication Networks
- Title of qualification awarded **M.Sc. Communication Systems Engineering**

- Dates (from – to) September 1986 to June 1993
- Name and type of organisation providing education and training University of Crete, Heraklion, Greece
Computer Science Department
<http://www.csd.uoc.gr/>
- Title of qualification awarded **B.Sc. Computer Science (2.1 Hons)**

TEACHING EXPERIENCE

- Dates (from – to) May 2008 onwards
- Name and address of employer Technological Educational Institute of Crete
Informatics Engineering Dept.
(FKA Applied Information Technology and Multimedia Dept.)
Heraklion, Crete, Greece
<http://www.epp.teicrete.gr/>
- Type of business or sector Education
- Occupation or position held **Assistant Professor**
- Main activities and responsibilities Teaching:
 - Information Systems Security
 - Network Security
 - Operating Systems
 - Distributed Systems

- Dates (from – to) September 2005 – July 2013 (8 Academic Terms)
- Name and address of employer University of Crete
Computer Science Dept.
Heraklion, Crete, Greece
<http://www.csd.uoc.gr/>
- Type of business or sector Education
- Occupation or position held **Visiting Assistant Professor**
- Main activities and responsibilities Teaching:
 - Information Systems Security (at postgraduate & advanced undergraduate level)
<http://www.csd.uoc.gr/~hy457/>

- Dates (from – to) March 2008 – August 2008 (1 Academic Term)
- Name and address of employer Technical University of Crete
Electronic & Computer Engineering Dept.
Chania, Crete, Greece
<http://www.ece.tuc.gr>
- Type of business or sector Education
- Occupation or position held **Visiting Assistant Professor**
- Main activities and responsibilities Teaching:
 - Information Systems Security

- Dates (from – to) September 2004 – April 2008
- Name and address of employer Technological Educational Institute of Crete
Applied Information Technology and Multimedia Dept.
Heraklion, Crete, Greece
<http://www.epp.teicrete.gr/>
- Type of business or sector Education
- Occupation or position held **Adjunct Professor**
- Main activities and responsibilities Teaching:
 - Information Systems Security
 - Operating Systems
 - Distributed Systems

WORK / RESEARCH EXPERIENCE

- Dates (from – to) November 2012 – August 2014
 - Name and address of employer Technical University of Crete, Telecommunication Systems Institute
<http://www.tuc.gr>, <http://www.tsi.gr>
 - Type of business or sector Research & Development
 - Occupation or position held **Senior Researcher, Project Manager**
 - Main activities and responsibilities
 - “nSHIELD New embedded Systems architecture for multi-Layer Dependable solutions, FP7, JTI-CP-ARTEMIS Joint Technology Initiatives - Collaborative Project, 01/11/2012 – 31/08/2014 (01/09/2011 – 31/08/2014), <http://www.newshield.eu/>
 - “FASTCUDA: Open Source FPGA Accelerator & Hardware-Software Codesign Toolset for CUDA Kernels”, FP7, Research for SMEs, 01/06/2012 – 30/09/2012 (1/11/2010 – 31/10/2013), <http://www.fastcuda.eu/>
-
- Dates (from – to) August 2005 – May 2013
 - Name and address of employer Technological Educational Institute of Crete, Heraklion, Greece
<http://www.teicrete.gr>
 - Type of business or sector Research & Development
 - Occupation or position held **Senior Researcher**
 - Main activities and responsibilities
 - “VERTICAL: SW/HW extensions for virtualized heterogeneous multicore platforms”, FP7/ICT Collaborative Project, 01/12/2012 – 31/05/2013 (15/07/2011 – 14/07/2014), €280K, <http://www.virtical.eu/>
 - “Kouponia Kainotomias”, Promoting best information security practices to SMEs, General Secretariat for Research and Technology of the Greek Ministry of Education, 01/07/2012 – 30/09/2012
 - “PANOPTHS 2011”, Greek Cyber War exercise. Participated as a member of blue and red teams, 31/10/2011 – 04/11/2011
 - “AMIBIO: Automatic Monitoring and Inventorying of Biodiversity”, FP7, LIFE+ Nature & Biodiversity 2008, 03/01/2011 – 30/09/2011 (01/02/2010 – 30/06/2013), €150K (€1.66M), <http://www.amibio-project.eu/>
 - “Informational and Organizational Network for the Promotion of the Agro-tourism in the district of Lasithi-Crete”, LEADER+ (2000-2006), Center of Technological Research – Crete, 01/02/2007 – 31/12/2007, €80K
 - “KERVEROS: Secure provisioning of on-demand multimedia services over DVB-T (downlink) and wireless network (uplink) technologies”, co-funded by the European Regional Development Fund and national resources (EPEAK II – Archimedes II), 01/08/2005 – 30/07/2007
-
- Dates (from – to) June 2007 – March 2008
 - Name and address of employer Institute of Computer Science, Foundation of Research & Technology – Hellas
N. Plastira 100, Vassilika Vouton, GR-70013 Heraklion, Crete
<http://ics.forth.gr/>
 - Type of business or sector Research & Development
 - Occupation or position held **ICT Security Engineer & Consultant**
 - Main activities and responsibilities Promoting best practices, risk assessment and risk management.
I was involved in the following projects
 - FORTHcert CSIRT: Participated in the early design and implementation of a function to offer the external IT community Computer Security Incident Response Services <http://www.forth.gr/forthcert/>
 - ISO 27001:2005 Certification: Participated in the design stages of an internal Information Security Management System based on the ISO 27001 standard, industry best practices and relevant guidelines
 - Security Policies Knowledgebase: Configured a tool offering SMEs a way to compose custom information security policies based on policy templates, security standards and best practice guidelines stored in a publicly available database (in co-operation with the European Network and Information Security Agency, ENISA)

- Dates (from – to) August 2005 – June 2007
- Name and address of employer Virtual-Trip Ltd
10 1770 Ave., 71202 Heraklion, Crete, Greece
<http://www.vtrip.net>
ICT Services Provider, Research & Technical Development
ICT Security Consultant
 - Managing the company's involvement in following research projects
 - "Multi-Layer Techniques for Attack DEtection Systems – MILTIADES", GSRT, Greece, 01/04/2006 – 31/03/2008, €90K.
 - "A Vulnerability Assessment Tool – ESTIA", GSRT, Greece, 01/01/2005 - 31/12/2006), €200K.
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities
- Dates (from – to) June 2000 to June 2003
- Name and address of employer Barclays Capital
Canary Wharf, London, United Kingdom
<http://www.barcap.com/>
Investment Banking
Security Engineer
 - Member of a team responsible for the design, development and productionisation of several security technologies like: Server Intrusion Detection, Identity Management, Secure Instant Messaging, Virus Management and Active Content Protection
 - Most heavily involved with the design and implementation of a Public Key Infrastructure (PKI) for the bank, used by all e-commerce (on-line trading) applications.
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities
- Dates (from – to) June 1995 to December 1998
- Name and address of employer University of Cambridge, Computer Laboratory, Security Group
Cambridge, United Kingdom
<http://www.cl.cam.ac.uk/research/security/>
Education
Research Assistant
 - Researched, designed and implemented methods for electronic payments and in particular micropayment protocols (funded by the UK Department of Industry)
 - Developed techniques for digital copyright protection and in particular digital watermarking (funded by Intel Corporation)
 - Co-authored a book on digital certification infrastructures
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

PROFESSIONAL QUALIFICATIONS AND TRAINING

- Dates (from – to) May 11-15, 2009
- Name and address of educational body ISOQAR Ltd
A UK accredited certification body
7, Avgis Str. - 145 69 Anixi , Athens, Greece
<http://www.isoqar.gr/>
 - Course IRCA certified ISMS auditor 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
- Dates (from – to) July 5-6, 2007
- Name and address of educational body Terena (Trans-European Research and Education Networking Association)
<http://www.terena.org/activities/csirt-training/>
 - Course CSIRT (Computer Security Incident Response Team) Training
Provides specialist training courses to train staff of (new) CSIRTs in the organizational, operational, technical, market and legal issues involved in providing CSIRT services

OTHER ACADEMIC ACTIVITIES

CFP Program Committee & Reviewer

- MeSeCCS 2014, Measurable security for Embedded Computing and Communication Systems, 7 - 9 Jan. 2014, Lisbon, Portugal, <http://www.peccs.org/MeSeCCS.aspx>
- OWASP AppSec Research 2012, "Security for E-Government Application and Services", 10 - 13 July 2012, Athens, Greece, <http://www.appsecresearch.org>
- IEEE TEMU 2012, International Conference on Telecommunications & Multimedia, Heraklion, Greece, Jul. 30 - Aug. 1 2012

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of
equipment, machinery, etc.*

GREEK

ENGLISH (UNIVERSITY OF MICHIGAN ECPE)

fluent

fluent

fluent

Authentication infrastructures, PKI, Identity Management
Security Assessment, Penetration Testing, Security Tools, Network Tools
Incident Response
Information Security Management
Secure Servers, Secure Applications
Computer Programming, Crypto Libraries
Web Development

ADDITIONAL INFORMATION

Military Service

Dates (from - to): August 2003 to August 2004

Served the army as Armoured Corps sergeant.

References

Supplied on request.

Driving License

Full clean UK driving license (Category B)

PUBLICATIONS

(>500 citations,
<http://scholar.google.gr/>)

Journal Papers

1. "A New Family of Authentication Protocols", R. Anderson, F. Bergadano, B. Crispo, J-H Lee, C. Manifavas, and R. Needham, ACM SIGOPS Operating Systems Review, 32(4), pp. 9-20, Oct. 1998
<http://portal.acm.org/citation.cfm?id=302353>
2. "Evaluation of Micropayment Transaction Costs", I. Papaefstathiou and C. Manifavas, Journal of Electronic Commerce Research, Vol. 5, No. 2, pp. 99-113, May 2004
<http://www.csulb.edu/web/journals/jecr/issues/20042/index.htm>
3. "The ramification problem in temporal databases: an approach with conflicting constraints", N. Papadakis, D. Plexousakis, M. Papadakis and H. Manifavas, Journal of Intelligent Information Systems, vol. 38, issue 1, pp. 41-94, Feb. 2012
<http://link.springer.com/article/10.1007/s10844-010-0143-2?no-access=true>
4. "How effective is your security awareness program? - An evaluation methodology", K. Rantos, K. Fysarakis and C. Manifavas, Information Security Journal: A Global Perspective, vol. 21, issue 6, Dec. 2012
<http://www.tandfonline.com/doi/abs/10.1080/19393555.2012.747234?journalCode=uiss20#.UrDHPsFah1V>
5. "Optimized Watermarking for Light Field Rendering based Free-View TV" E. Apostolidis, T. Kounalakis, C. Manifavas and G. Triantafyllidis, 3D Research Journal, vol. 4, Issue 1, Mar. 2013
<http://link.springer.com/article/10.1007/3DRes.01%282013%294>

Conference Papers

1. "NetCard - A Practical Electronic Cash Scheme", R. Anderson, C. Manifavas, and C. Sutherland, 1996 (4th) Cambridge Workshop on Security Protocols, 10-12 Apr. 1996, Lecture Notes in Computer Science 1189, pp. 49-57, Springer 1997
<http://www.springerlink.com/content/105633/?k=manifavas>
2. "Chameleon - A New Kind of Stream Cipher", R. Anderson and C. Manifavas, 4th Fast Software Encryption Workshop (FSE 1997), 20-22 Jan. 1997, Lecture Notes in Computer Science 1267, pp. 107-113, Springer 1997
<http://www.springerlink.com/content/105633/?k=manifavas>
3. "Securing Interactive Services Provided Over DVB-T", C. Manifavas, P. Fragopoulou, V. Zacharopoulos, G. Mastorakis, 2nd Int. Conference on Telecommunications & Multimedia (TEMU 2006), Heraklion, Crete, Greece, 5-7 Jul. 2006
<http://www.temu.gr/2006/program.asp>
4. "High-End Reconfigurable Systems for Fast Password Cracking", K. Theoharoulis, C. Manifavas and I. Papaefstathiou, IEEE 17th Symposium on Field Programmable Custom Computing Machines (FCCM 2009), Napa, California, USA, 5-7 Apr. 2009
<http://www.computer.org/portal/web/csdl/doi/10.1109/FCCM.2009.48>
5. "Development and Implementation of a Network Processor Architecture in Reconfigurable Logic (FPGA)", C. Stefanatos, I. Papaefstathiou and C. Manifavas, IEEE 8th Workshop on Intelligent Solutions in Embedded Systems (WISES 2010), Heraklion, Greece, 8-9 Jul. 2010
https://wises2010.cs.teicrete.gr/index.php?option=com_content&view=article&id=68&Itemid=107
6. "Explorent: A malicious application targeting the Windows XP platform", George Philippakis and Charalampos Manifavas, 4th Int. Conference on Telecommunications & Multimedia (TEMU 2010), Chania, Greece, 14-16 Jul. 2010
<http://www.temu.gr/2010/program.html>
7. "Implementing Rainbow Tables in High-end FPGAs for Super-fast Password Cracking", K. Theoharoulis, C. Manifavas and I. Papaefstathiou, IEEE 20th Int. Conference on Field Programmable Logic and Applications (FPL 2010), Milano, Italy, Aug. 31st - Sep. 2nd 2010
<http://conferenze.dei.polimi.it/FPL2010/program.htm>
8. "Secure Policy-Based Management Solutions in Heterogeneous Embedded Systems Networks", Konstantinos Rantos, Alexandros Papanikolaou, Konstantinos Fysarakis and Charalampos Manifavas, IEEE Int. Conference on Telecommunications & Multimedia

(TEMU 2012), Heraklion, Greece, Jul. 30 – Aug. 1 2012

<http://www.temu.gr/>

9. "Breaking The GSM A5/1 Cryptography Algorithm With Rainbow Tables and High-End FPGAs", Maria Kalenderi, Dionisios Pnevmatikatos, Ioannis Papaefstathiou and Charalampos Manifavas, IEEE 22th Int. Conference on Field Programmable Logic and Applications (FPL 2012), Oslo, Norway, Aug. 29-31 2012
<http://www.fpl2012.org/>
10. "Building Trust in Ad hoc Distributed Resource-sharing Networks Using Reputation-based Systems", George Hatzivasilis and Charalampos Manifavas, 16th Panhellenic Conference on Informatics (PCI 2012), Piraeus, Greece, Oct. 5-7 2012
<http://pci2012.unipi.gr/>
11. "Parallelizing bioinformatics and security applications on a low-cost multi-core system", Teodor Tzanakakis, Ioannis Papaefstathiou and Charalampos Manifavas, IEEE 10th ACS Int. Conf. on Computer Systems and Applications (AICCSA 2013), Fes/Ifrane, Morocco, 27-30 May 2013
<http://aiccsa.uic.edu/>
12. "Fast, FPGA-based Rainbow Table Creation for Attacking Encrypted Mobile Communications", Panos Papantonakis, Charalampos Manifavas, Dionisios Pnevmatikatos and Ioannis Papaefstathiou, IEEE 23rd Int. Conference on Field Programmable Logic and Applications (FPL 2013), Porto, Portugal, 2-4 Sept. 2013
<http://www.fpl2013.org/>
13. "Highly Parallel implementation of Sphinx-3 voice recognition algorithm", Dimitris Tsiamasiotis, Ioannis Papaefstathiou and Charalampos Manifavas, IEEE 11th AFRICON 2013, Mauritius, 09-12 Sept. 2013
<http://africon2013.org/>
14. "A Novel Highly Flexible Network Multi-Processor Optimised for Reconfigurable Devices", Grigoris Raptis, Ioannis Papaefstathiou, Konstantinos Georgopoulos and Charalampos Manifavas, IEEE 11th AFRICON 2013, Mauritius, 09-12 Sept. 2013
<http://africon2013.org/>
15. "Lightweight Cryptography for Embedded Systems – A Comparative Analysis", Charalampos Manifavas, George Hatzivasilis, Konstantinos Fysarakis, and Konstantinos Rantos, 6th International Workshop on Autonomous and Spontaneous Security (SETOP 2013), Egham, U.K., 12-13 Sept. 2013, Lecture Notes in Computer Science 8247, pp. xx-yy, Springer 2013
<http://conferences.telecom-bretagne.eu/setop/2013/>
16. "IPsec over IEEE 802.15.4 for Low Power and Lossy Networks", Konstantinos Rantos, Alexandros Papanikolaou and Charalampos Manifavas, ACM 11th Int. Symposium on Mobility Management and Wireless Access (MOBIWAC 2013), Barcelona, Spain, 3-8 Nov. 2013
<http://adscom.it.uc3m.es/mobiwac/>
17. "IPv6 Security for Low Power and Lossy Networks", Konstantinos Rantos, Alexandros Papanikolaou, Charalampos Manifavas and Ioannis Papaefstathiou, IEEE/IFIP Wireless Days 2013, Valencia, Spain, 13-15 Nov. 2013
<http://www.wirelessdays.org/>
18. "A Lightweight Anonymity & Location Privacy Service", Konstantinos Fysarakis, Charalampos Manifavas, Ioannis Papaefstathiou and Anastasios Adamopoulos, IEEE Int. Symposium on Signal Processing and Information Technology (ISSPIT 2013), Athens, Greece, 12-15 Dec. 2013
<http://www.isspit.org/isspit/2013/>
19. "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, 7-9 Jan. 2014
<http://www.peccs.org/>
20. "ULCL: An Ultra-Lightweight Cryptographic Library for embedded systems", G. Hatzivasilis, A. Theodoridis, H. Gasparis 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, 7-9 Jan. 2014

<http://www.peccs.org/>

Books, Book Chapters, White Papers

1. "The Global Internet Trust Register 1998", R. Anderson, B. Crispo, JH Lee, C. Manifavas, V. Matyas and FAP Petitcolas, published by Northgate Consultants, U.K., Feb. 1998, ISBN 0953239705, <http://www.cl.cam.ac.uk/research/security/Trust-Register/gtr1998.pdf>
2. "The Global Internet Trust Register", R. Anderson, B. Crispo, JH Lee, C. Manifavas, V. Matyas and FAP Petitcolas, published by MIT Press, Cambridge, MA, Apr. 1999, ISBN 0-262-51105-3 <http://mitpress.mit.edu/catalog/item/default.asp?tid=6214&ttype=2>
3. "KNOWLEDGEBASE: Tool-based Security Policy Composition", ENISA, Jan. 2008, http://www.enisa.europa.eu/media/faq-on-enisa/faq_knowledgebase_tool_20080327-1.pdf/at_download/file
http://www.enisa.europa.eu/doc/pdf/deliverables/knowledge_sec_policy_com_2008.pdf
4. "Mobile Identity Management", ENISA Position Paper, Andre Arnes, Jorge Aguado Bombin, Elisa Boschi, Raul Benito Cortinas, Francesca Gaudino, Giles Hobgen, Thomas Karagiannis, Harry Manifavas, Katerina Mitrokotsa, Ingo Naumann, Panos Papadimitratos, Maria Papadopouli, George Roussos, Katerina Tsakona, April 2010, <http://www.enisa.europa.eu/act/it/eid/Mobile%20IDM>