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# CURRICULUM VITAE

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## PERSONAL INFORMATION

Name: Christoforos Ntantogian

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Homepage: <http://www.di.uoa.gr/~dadoyan>

Languages: Greek, English

## EDUCATION

*Jun. 2005 - Dec. 2009*     **PhD** in Network Security.

Dissertation Title: "Analysis, Modeling and Optimization of Security Architectures in Next Generation IP Networks", Department of Informatics and Telecommunications, University of Athens, Supervisor: Professor Lazaros Merakos

*Oct. 2004 -Jun.2006*     **MSc** in Computers Systems Technology, Department of Informatics and Telecommunications, University of Athens.

*Oct. 1999 - Sep. 2004*     **BSc** from the Department of Informatics and Telecommunications, University of Athens.

## A. RESEARCH WORK SUMMARY

<b>A.1</b>	Total number of publications in Journals	17
<b>A.2</b>	Total number of publications in Journals indexed by Thomson Reuters	17
<b>A.3</b>	Total number of publications in Journals as first or second author	17 (9 as first author)
<b>A.4</b>	Total number of publications in book chapters	3
<b>A.5</b>	Total number of publications in Conferences	28
<b>A.6</b>	Total number of papers under revisions in Journals	1
<b>A.7</b>	Total number of publications under review in Journals	4
<b>A.8</b>	Papers to be submitted in journals	5
<b>A.9</b>	Citations (Google Scholar)	374
<b>A.10</b>	Citations (SCOPUS)	185
<b>A.11</b>	h-index (Google Scholar)	11
<b>A.12</b>	i10-Index (Google scholar)	14

<b>A.13</b>	Reviewer in scientific journals	13
<b>A.14</b>	Technical Program Committee Member	15
<b>A.15</b>	Reviewer in conferences	17
<b>A.16</b>	Organizing committee Member	1

## **B. PROFESSIONAL EXPERIENCE**

### **I. Current Position**

15/1/2020- Today: Assistant Professor in “Network Security” in the Department of Informatics in the Ionian University.

### **II. Past positions**

2011-2019: Postdoctoral researcher in the Department of Digital Systems in the University of Piraeus. My responsibilities in the department are:

<b>B.1</b>	<b>Lead the research activities</b> of the team
<b>B.2</b>	<b>Teaching activities</b> at the undergraduate and postgraduate programme.
<b>B.3</b>	<b>Technical writing</b> of European and National research proposals (H2020, Marie-Curie).
<b>B.4</b>	<b>Assist in the project and technical management</b> of European and National research proposals.
<b>B.5</b>	<b>Supervision</b> of M.Sc. theses.
<b>B.6</b>	<p><b>Prepare course material and laboratory exercises</b> in the following areas:</p> <ul style="list-style-type: none"> <li>• Penetration testing (Social engineering, vulnerability assessment, exploitation)</li> <li>• Modern memory corruption attacks: Heap spraying attacks, Return oriented programming, ASLR bypass, Race conditions</li> <li>• Shellcode development in Assembly language and AV bypass techniques</li> <li>• Code auditing</li> <li>• Defence strategies - Linux and windows Hardening</li> <li>• Web security (SQL injection, XSS, CSRF, LFI, broken session management)</li> <li>• Malware analysis and incident response</li> <li>• Reverse engineering</li> <li>• Android Security and analysis of malicious mobile applications</li> <li>• Digital Forensics</li> </ul>

## **C. TEACHING EXPERIENCE**

### **I. Direct Appointment**

<b>C.1</b>	Associate Professor, “ <i>Topics in Information Security</i> ”, Department of Informatics, Ionian University	Spring Semester 2020
<b>C.2</b>	Adjunct Lecturer, course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2020

<b>C.3</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2019
<b>C.4</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2019
<b>C.5</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2018
<b>C.6</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Information System Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus.	Spring Semester 2018
<b>C.7</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2018
<b>C.8</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2017
<b>C.9</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2017
<b>C.10</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2016
<b>C.11</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2016
<b>C.12</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2015,
<b>C.13</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2015
<b>C.14</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2014
<b>C.15</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2014

<b>C.16</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2013
<b>C.17</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Digital Forensics and Web security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2013
<b>C.18</b>	<b>Adjunct Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2012

## **II. Laboratory Instructor**

<b>C.19</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2018
<b>C.20</b>	<b>Instructor</b> , Laboratory title: “ <i>Mobile and Wireless Communications Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus	Spring Semester 2018
<b>C.21</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2017
<b>C.22</b>	<b>Instructor</b> , Laboratory title: “ <i>Mobile and Wireless Communications Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus	Spring Semester 2017
<b>C.23</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2016
<b>C.24</b>	<b>Instructor</b> , Laboratory title: “ <i>Mobile and Wireless Communications Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus	Spring Semester 2016
<b>C.25</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2015
<b>C.26</b>	<b>Instructor</b> , Laboratory title: “ <i>Mobile and Wireless Communications Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus	Spring Semester 2015
<b>C.27</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2014
<b>C.28</b>	<b>Instructor</b> , Laboratory title: “ <i>Mobile and Wireless Communications Security</i> ”, Undergraduate program, Department of Digital Systems in the University of Piraeus	Spring Semester 2014
<b>C.29</b>	<b>Instructor</b> , Laboratory title: “ <i>Network security</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2013

### III. Seminars and Training Courses

<b>C.30</b>	<b>Invited Lecturer</b> , seminar title: “ <i>Device-centric authentication, biometric &amp; behavioral authentication, anonymous credentials</i> ”, European Intensive Programme on Information and Communication Technologies Security (IPICS), Corfu, Greece 2017.	June 2017
<b>C.31</b>	<b>Instructor</b> , seminar title: “ <i>Cryptography in Business Applications</i> ”, Department of Mathematics, Aristotle University, July 2014	July 2014

### IV. Teaching Assistant

<b>C.32</b>	<b>Lecturer</b> , course title: “ <i>Secure Software Development for Service Oriented Systems</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Spring Semester 2012
<b>C.33</b>	<b>Lecturer</b> , course title: “ <i>Security Assessment and Vulnerability Exploitation</i> ”, M.Sc. program in Digital System Security, Department of Digital Systems in the University of Piraeus.	Winter Semester 2011
<b>C.34</b>	<b>Teaching assistant</b> , Course title: “ <i>Computer Networks II</i> ”, Department of Informatics and Telecommunications, University of Athens for the undergraduate course.	Spring Semester 2009

## D. EXPERIENCE IN RESEARCH AND DEVELOPMENT PROJECTS

### I. Team Leader

<b>D.1</b>	“ <i>FutureTPM – Future Proofing the Connected World: A Quantum-Resistant Trusted Platform Module</i> ” <b>Call: H2020-DS-06-2017. Funding: EUR 4.868.890</b>	2018-2021
<b>D.2</b>	“ <i>ReCRED - From Real-world Identities to Privacy-preserving and Attribute-based CREDENTIALS for Device-centric Access Control</i> ” <b>Call: H2020-DS02-2014. Funding: EUR 4.997.242</b>	2015-2018
<b>D.3</b>	“ <i>SealedGRID - Scalable, trustEd, and interoperAble pLatform for sEcureD smart GRID</i> ” <b>Call: MSCA-RISE-2017. Funding: EUR 1.080.000.</b>	2018-2021
<b>D.4</b>	“ <i>UINFC2, “Engaging Users in Preventing and Fighting Cyber Crime”</i> ” <b>Call: HOME/2013/ISEC Funding: EUR 490.271</b>	2014-2016

### II. Participation as research fellow

<b>D.5</b>	LOCARD - H2020 “ <i>Lawful evidence cOLlecting &amp; Continuity pLAtfoRm Development</i> ”	2019-2020
<b>D.6</b>	“ <i>National research project «STIRIZO». The goal is the design and implementation of a Public Key Infrastructure for the Greek Universities and Schools.</i> ”	2014-2016

<b>D.7</b>	<i>“SPAGOS «Security and privacy in e-Government services”</i> <b>Call: National research project</b>	2014-2016
<b>D.8</b>	<i>“Simplification and Electronification of Administrative Procedures of University of the Aegean»”</i> <b>Call: National research project</b>	2010-2012
<b>D.9</b>	<i>“BIO-IDENTITY: Secured and Revoked Biometric Identities for use in Pervasive Intelligent Environments”</i> <b>Call: National research project</b>	2011-2014
<b>D.10</b>	<i>“BusFinder: Advanced system for dynamic information and guidance services to public transport passengers”</i> <b>Call: National research project</b>	2011-2014
<b>D.11</b>	<i>“PEERASSIST: a P2P platform supporting virtual communities to assist independent living of senior citizens”.</i> <b>Call: Ambient Assisted Living (AAL) Joint Programme, Call 2</b>	2010-2013
<b>D.12</b>	<i>“ANA: Autonomic Network Architecture”</i> <b>Call: Information Societies Technology—Future Emerging Technologies (IST-FET)</b>	2006-2009
<b>D.13</b>	<i>“CONTENT: Excellence in Content Distribution Network Research”</i> <b>Call: EU-IST-NoE</b>	2006-2009
<b>D.14</b>	<i>“IP CASCADAS: Component-ware for Autonomic Situation-aware Communications, and Dynamically Adaptable Services”.</i> <b>Call: EU-IST-FET/FIRE</b>	2006-2008
<b>D.15</b>	<i>“DIWAM: Design and Implementation of a Wireless LAN Authentication Mechanism”</i> <b>Call: National research project</b>	2003-2005
<b>D.16</b>	<i>“Sensor Networks: Development of algorithms, Protocol Design and Performance assessment”</i> <b>Call: National research project (PENED 2003)</b>	2005-2008

## **E. PUBLICATIONS**

### **I. Journals**

<b>E.1</b>	Vaios Bolgouras, <b><u>Christoforos Ntantogian</u></b> , Manos Panaousis, Christos Xenakis, "Distributed Key Management in Microgrids", IEEE Transactions on Industrial Informatics, vol. 16, no. 3, pp. 2125-2133, March 2020.
<b>E.2</b>	<b><u>Christoforos Ntantogian</u></b> , Eleni Veroni, Georgios Karopoulos, Christos Xenakis, " A survey of voice and communication protection solutions against wiretapping," Computers & Electrical Engineering, Elsevier, Vol. 77, pp:163-178, July, 2019
<b>E.3</b>	<b><u>Christoforos Ntantogian</u></b> , Giorgos Poullos, Georgios Karopoulos, Christos Xenakis, "Transforming Malicious Code to ROP Gadgets for Antivirus Evasion", IET Information Security, 2019
<b>E.4</b>	<b><u>Christoforos Ntantogian</u></b> , Stefanos Malliaros, Christos Xenakis, "Evaluation of password hashing schemes in open source web platforms", Computers & Security, Elsevier, Vol. 84, pp 206-224, July 2019

<b>E.5</b>	Giorgos Karopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "MASKER: Masking for privacy-preserving aggregation in the smart grid ecosystem", Computers & Security, Elsevier, Volume 73, pp: 307-325, March 2018
<b>E.6</b>	Anastasis Stasinopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "Commix: Detecting and exploiting command injection flaws", International Journal of Information Security, Springer, February 2018.
<b>E.7</b>	Christoforos Panos, <b><u>Christoforos Ntantogian</u></b> , Stefanos Malliaros, Christos Xenakis, "Analyzing, Quantifying, and Detecting the Blackhole attack in Infrastructure-less Networks," Computer Networks, Elsevier, Vol. 113, February 2017, pp: 94-110.
<b>E.8</b>	Christos Xenakis, <b><u>Christoforos Ntantogian</u></b> , Orestis Panos, "(U)SimMonitor: A Mobile Application for Evaluating the Security of Cellular Networks," Computers & Security, Elsevier Science, Vol. 60, Issue 1, pp: 62-70, July 2016.
<b>E.9</b>	<b><u>Christoforos Ntantogian</u></b> , Stefanos Malliaros, Christos Xenakis, "Gaithashing: a Two-factor Authentication Scheme based on Gait Features," Computers & Security, Elsevier Science, Vol. 52, Issue 1, pp: 17-32, July. 2015.
<b>E.10</b>	<b><u>Christoforos Ntantogian</u></b> , Dimitris Apostolopoulos, Giannis Marinakis, Christos Xenakis, "Evaluating the Privacy of Android Mobile Applications under Forensic Analysis", Computers & Security, Elsevier Science, Vol. 42, pp:66-76, May 2014.
<b>E.11</b>	Christos Xenakis, <b><u>Christoforos Ntantogian</u></b> , "An Advanced Persistent Threat in 3G Networks: Attacking the Home Network from Roaming Networks", Computers & Security, Elsevier Science, Vol. 40, Issue 1, pp:84-94, February 2014
<b>E.12</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "Questioning the Feasibility of UMTS-GSM Interworking Attacks," Wireless Personal Communications, Springer, Vol. 65, No. 1, pp:157-163, July 2012.
<b>E.13</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Ioannis Stavrakakis "Reducing False Synchronizations in 3G-WLAN Interworking Networks," IEEE Transactions on Wireless Communications, Vol. 10, No. 11, pp: 3765–3773, Nov. 2011.
<b>E.14</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Ioannis Stavrakakis "A Generic Mechanism for Efficient Authentication in B3G Networks," Computers & Security, Elsevier Science, Vol. 29, Issue 4, pp: 460-475, June 2010.
<b>E.15</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "One-pass EAP-AKA Authentication in 3G-WLAN Integrated Networks," Wireless Personal Communications, Springer, Vol. 48, Issue 4, pp: 569-584, March 2009.
<b>E.16</b>	Christos Xenakis, <b><u>Christoforos Ntantogian</u></b> , Ioannis Stavrakakis, "A network-assisted mobile VPN for securing users data in UMTS," Computer Communications, Elsevier Science, Vol. 31, No. 14, pp: 3315-3327 September 2008.
<b>E.17</b>	Christos Xenakis, <b><u>Christoforos Ntantogian</u></b> , "Security Architectures for B3G Mobile Networks", Telecommunication Systems," Springer, Vol.35, No. 3-4, pp: 123-139, Aug. 2007.

## **II. Book Chapters**

<b>E.18</b>	Georgios Karopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "Privacy-Preserving Aggregation in the Smart Grid," Chapter in Security Solutions and Applied Cryptography in Smart Grid Communications (Mohamed Amine Ferrag, Ahmed Ahmim), IGI Global, August 2016.
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<b>E.19</b>	<b>Christoforos Ntantogian</b> , Christos Xenakis, "Privacy Mechanisms in 4 <sup>th</sup> Generation Networks," book chapter in "Protection Privacy in Information and Communication Technologies: Technical and Legal Issues," Papatotiriou (2010), editor: K. Labrinoudakis, L. Mitrou, S. Gkritzalis, S. Katsikas.
<b>E.20</b>	<b>Christoforos Ntantogian</b> , Christos Xenakis, "Security Architectures for B3G Mobile Networks," book chapter in "Handbook of Research on Wireless Security," Information Science Reference (2008), editor: Yan Zhang, Jun Zheng, Miao Ma, ISBN: 978-1-59904-899-4.

### III. Conferences

<b>E.21</b>	Nikolaos Koutroumpouchos, Georgios Lavdanis, Eleni Veroni, <b>Christoforos Ntantogian</b> , Christos Xenakis, "ObjectMap: Detecting Insecure Object Deserialization." In Proc. 23rd Pan-Hellenic Conference on Informatics (PCI 2019), Nicosia, Cyprus, Nov. 2019.
<b>E.22</b>	Farnaz Mohammadi, Angeliki Panou, <b>Christoforos Ntantogian</b> , Eirini Karapistoli, Emmanouil Panaousis, Christos Xenakis, "CUREX: seCure and pRivate hEalth data eXchange." In Proc. Web Intelligence 2019, Thessaloniki, Greece, Oct. 2019.
<b>E.23</b>	Michail Bampatsikos, <b>Christoforos Ntantogian</b> , Christos Xenakis, Stelios C.A. Thomopoulos, "BARRETT BlockchAin Regulated REmote aTTestation." In Proc. Web Intelligence 2019, Thessaloniki, Greece, Oct. 2019.
<b>E.24</b>	Aristeidis Farao, Juan Enrique Rubio, Cristina Alcaraz, <b>Christoforos Ntantogian</b> , Christos Xenakis and Javier Lopez, "SealedGRID: A Secure Interconnection Technologies for Smart Grid Applications " In Proc. 14th International Conference on Critical Information Infrastructures Security, CRITIS 2019, LinkÅ¶ping, Sweden, Sept. 2019.
<b>E.25</b>	Aristeidis Farao, <b>Christoforos Ntantogian</b> , Cristiana Istrate, George Suci, Christos Xenakis, " SealedGRID: Scalable, trustEd, and interoperAble pLatform for sEcureD smartGRID, " In Proc. Industrial Control System- Cyber Security Research (ICS-CSR) 2019, Athens, Greece, Sept. 2019.
<b>E.26</b>	Nikolaos Koutroumpouchos, <b>Christoforos Ntantogian</b> , Sofia Anna Menesidou, Kaitai Liang, Panagiotis Gouvas, Christos Xenakis, Thanassis Giannetsos, "Secure Edge Computing with Lightweight Control-Flow Property-based Attestation", SecSoft 2019, Paris, France
<b>E.27</b>	Ioanna Kitsaki, Anna Angelogianni, <b>Christoforos Ntantogian</b> , Christos Xenakis, "A Forensic Investigation of Android Mobile Applications" In Proc. 22st Pan-Hellenic Conference on Informatics (PCI 2018), Athens, Greece, Nov. 2018
<b>E.28</b>	Angeliki Panou, <b>Christoforos Ntantogian</b> , Christos Xenakis, " RiSKi: A Framework for Modeling Cyber Threats to Estimate Risk for Data Breach Insurance, " In Proc. 21st Pan-Hellenic Conference on Informatics (PCI), Larisa, Greece, Sept. 2017
<b>E.29</b>	Christoforos Panos, Stefanos Malliaros, <b>Christoforos Ntantogian</b> , and Christos Xenakis, "A Security Evaluation of FIDO's UAF Protocol in Mobile and Embedded Devices", 28th International Tyrrhenian Workshop (TIWDC), Palermo, Italy, September 18-20, 2017
<b>E.30</b>	Stefanos Malliaros, <b>Christoforos Ntantogian</b> , Christos Xenakis, "Protecting sensitive information in the volatile memory from disclosure attacks," In Proc. 11th International Conference on Availability, Reliability and Security (ARES 2016), Salzburg, Austria, August 2016.
<b>E.31</b>	Alexia Chatzikonstantinou, <b>Christoforos Ntantogian</b> , Georgios Karopoulos, Christos Xenakis, "Evaluation of Cryptography Usage in Android Applications," In Proc. 9th EAI

	International Conference on Bio-inspired Information and Communications Technologies, New York City, New York, USA, Dec. 2015.
<b>E.32</b>	Anastasios Stasinopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "Commix: Detecting and Exploiting Command Injection Flaws", BlackHat Europe, Amsterdam, November 2015
<b>E.33</b>	Giorgos Poullos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "ROPInjector: Using Return Oriented Programming for Polymorphism and Antivirus Evasion," BlackHat USA 2015, Las Vegas NV, USA, August 2015.
<b>E.34</b>	<b><u>Christoforos Ntantogian</u></b> , Grigoris Valtas, Nikos Kapetanakis, Faidon Lalagiannis, Christos Xenakis, "Attacking GSM Networks as a Script Kiddie Using Commodity Hardware and Software," 12 <sup>th</sup> International Conference on Trust, Privacy & Security in Digital Business (TrustBus 2015), Valencia, Spain, Sept. 2015.
<b>E.35</b>	Christos Xenakis, <b><u>Christoforos Ntantogian</u></b> , "Attacking the Baseband Modem of Mobile Phones to Breach the Users' Privacy and Network Security", 7th International Conference on Cyber Conflict (CyCon 2015), Tallinn, Estonia, May 2015.
<b>E.36</b>	Anastasios Stasinopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "Bypassing XSS Auditor: Taking Advantage of Badly Written PHP Code," In Proc. 14th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2014), Noida, India, Dec 2014.
<b>E.37</b>	Anastasios Stasinopoulos, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "The weakest link on the network: exploiting ADSL routers to perform cyber-attacks", 13th IEEE International Symposium on Signal Processing and Information Technology, (ISSPIT 2013), Athens, Greece, December 2013.
<b>E.38</b>	Haralampos Petrou, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, "A better time approximation scheme for e-passports", In Proc. of 10th International Conference on Trust, Privacy & Security in Digital Business (TrustBus 2013), Prague, Czech Republic, August 2013.
<b>E.39</b>	Dimitris Apostolopoulos, Giannis Marinakis, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis,, "Discovering authentication credentials in volatile memory of Android mobile devices", In Proc. 12th IFIP Conference on e-Business, e-Services, e-Society (I3E 2013), Athens, Greece, April 2013.
<b>E.40</b>	<b><u>Christoforos Ntantogian</u></b> , Dimitris Gkikakis, Christos Xenakis,, "PRIPAY: A Privacy Preserving Architecture for Secure Micropayments", In Proc. The Seventh International Conference on Systems and Networks Communications (ICSNC 2012), Lisbon, Portugal, Nov. 2012.
<b>E.41</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Ioannis Stavrakakis, "Analysis and Modeling of False Synchronizations in 3G-WLAN Integrated Networks," In Proc. 27th IFIP International Information Security and Privacy Conference (SEC 2012), Heraklion, Crete, Greece, June 2012.
<b>E.42</b>	Eleni Darra, <b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Sokratis Katsikas, "A Mobility and Energy-aware Hierarchical Intrusion Detection System for Mobile ad hoc Networks," In Proc. 8th International Conference on Trust, Privacy & Security in Digital Business (TrustBus 2011), Toulouse France, August 2011.
<b>E.43</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Ioannis Stavrakakis, "Reducing the User Authentication Cost in Next Generation Networks", In Proc. 5 <sup>th</sup> IEEE/IFIP Annual Conference on Wireless On demand Network Systems and Services (WONS 2008), Garmisch-Partenkirchen, Germany, Jan 2008.

<b>E.44</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Ioannis Stavarakakis, “Efficient Authentication for Users Autonomy in Next Generation All-IP Networks”, In Proc. 2nd International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS 2007), Budapest, Hungary, Dec 2007.
<b>E.45</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, “Reducing Authentication Traffic in 3G-WLAN Integrated Networks”, In Proc. 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, (PIMRC 2007), Athens, Greece, Sept 2007.
<b>E.46</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, “A Security Protocol for Mutual Authentication and Mobile VPN Deployment in B3G Networks”, In Proc. 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, (PIMRC 2007), Athens, Greece, Sept 2007.
<b>E.47</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, “A Security Binding for Efficient Authentication in 3G-WLAN Heterogeneous Networks”, PhD poster presented in the 6 <sup>th</sup> Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net 2007), Corfu, Greece, June 2007.
<b>E.48</b>	<b><u>Christoforos Ntantogian</u></b> , Christos Xenakis, Lazaros Merakos, “An enhanced EAP-SIM authentication scheme for securing WLAN,” In Proc. 15 <sup>th</sup> IST Mobile & Wireless Communications, Mykonos, Greece, June 2006.

## **F. SUPERVISION OF MSc THESIS**

### **I. Completed M.Sc. theses**

<b>F.1</b>	Diathesopoulos Giorgos (MTE14007), «Security Assessment for Windows domains using Powershell»
<b>F.2</b>	Papagianaros Giorgos (MTE14020), «Penetration testing in Windows using new generation tools»
<b>F.3</b>	Triantafilou Giorgos (MTE14026), «Implementation of a detection mechanism for web sites»
<b>F.4</b>	Kapiris Stamatis (MTE14040), «Machine learning for malware detection in network packets»
<b>F.5</b>	Gartaganis Charalambos (MTE1504), «A comparative evaluation of Windows security in versions 7,8 and 10»
<b>F.6</b>	Georgokitsos Kwstantinos (MTE1505), «Forensic analysis of a mobile application»
<b>F.7</b>	Kalogranis Christos (MTE1512), «Development of a Crypto-Malware»
<b>F.8</b>	Kasagianis Giorgos (MTE1515), «Evaluation of secure storage in Android devices »
<b>F.9</b>	Kermelis Basilios (MTE1516), «Web API fuzzing»
<b>F.10</b>	Koutoufaris Dhmitrios (MTE1518), «Creation of a backdoor for Wireless AP using RPI boards»
<b>F.11</b>	Ouromidis Athanasios (MTE1527), «Low Entropy malware creation»
<b>F.12</b>	Paliogiannis Panagiotis (MTE1528), «Analyzing ROP in shellcodes »
<b>F.13</b>	Sarris Antonios (MTE1534), «Development of a malware for Windows Systems»
<b>F.14</b>	Tempelis Ioannis (MTE1538), «Security Analysis of Windows 7,8 και 10»
<b>F.15</b>	Tsiampa Paraskeui (MTE1540), «Tools for network forensics»
<b>F.16</b>	Gergopoulos Anastasios (MTE1309), «DLL hijacking attacks in Windows 7/8 OS»

<b>F.17</b>	Chantzikonstantinou Alexia (MTE1335), «An Empirical Evaluation of the Cryptography usage in Android OS»
<b>F.18</b>	Lerataki Dionisia (MTE14013), «Comparative evaluation of penetration testing tools»
<b>F.19</b>	Soleas Agisilaos Αγησίλαος (MTE14024), «Implementation of detection mechanisms for malware in web applications»
<b>F.20</b>	Diathesopoulos Giorgos (MTE14007), «Security Assessment for Windows domains using Powershell»
<b>F.21</b>	Papagianaros Giorgos (MTE14020), «Penetration testing in Windows using new generation tools»
<b>F.22</b>	Kapellas Antonios (MTE1604) “Malware development”
<b>F.23</b>	Kitsaki Iwanna (MTE1618) “Digital Forensics on Android Applications”
<b>F.24</b>	Kontolewn Dionisia (MTE1611) “Penetration testing for Android devices”
<b>F.25</b>	Mpalaoura Swtiria (MTE1623) “Memory analysis of Malware Injection techniques”
<b>F.26</b>	Karapetsas Swtiris (MTE1617) “Forensic analysis of Mobile applications”
<b>F.27</b>	Nikolaou Nikoalos (MTE1627) “Exploit development in Metasploit”
<b>F.28</b>	Hatzimaggou Stamatios (MTE1636) “Python implementation of RopInjector”
<b>F.29</b>	Patramanis Giorgos (MTE1631) “Metasploit analysis and exploit development”
<b>F.30</b>	Tsioutsias Theodoros (MTE1633) “Malware development with ROP”
<b>F.31</b>	Papadopoulos Polimenis Fwtios (MTE1629) “Reverse engineering of a real world malware”
<b>F.32</b>	Katsikis Dimitrios (MTE1718) “Red team manual”
<b>F.33</b>	Gaberlo Naim (MTE1701) “Development of custom encoder for AV evasion”
<b>F.34</b>	Psaroudakis Spiridon (MTE1734) “Hardware security assessment using specialized tools”
<b>F.35</b>	Panagopoulos Iwannis (MTE1727) “AV evasion techniques: survey and new directions”
<b>F.36</b>	Gasparinatos Stylianos (MTE1608), “Design and implementation of a malware”

## **G. REVIEWER**

### **I. Scientific Journals**

<b>G.1</b>	Elsevier, Computers & Security,
<b>G.2</b>	Elsevier, Computers Networks
<b>G.3</b>	Elsevier, Computer Communications,
<b>G.4</b>	Elsevier, Expert Systems With Applications
<b>G.5</b>	IEEE Transactions on Human-Machine Systems
<b>G.6</b>	IEEE Transactions on Emerging Topics in Computing
<b>G.7</b>	IET Information Security
<b>G.8</b>	InderScience publications, International Journal of Electronic Governance
<b>G.9</b>	Springer, International Journal of Information Security
<b>G.10</b>	Springer Wireless Personal Communication Systems.

<b>G.11</b>	Hindawi, Security and Communication Networks
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## **II. TPC Member**

<b>G.12</b>	SPIoT 2018 (7 <sup>th</sup> International Symposium on Security & Privacy on Internet of Things).
<b>G.13</b>	BalkanCom'18, 2 <sup>nd</sup> International Balkan Conference on Communications and Networking, Podgorica, Montenegro, June 6-8,2018
<b>G.14</b>	ARES 2018, 13 <sup>th</sup> International Conference on Availability, Reliability and Security.
<b>G.15</b>	ARES 2017, 12 <sup>th</sup> International Conference on Availability, Reliability and Security.
<b>G.16</b>	ARES 2016, 11 <sup>th</sup> International Conference on Availability, Reliability and Security.
<b>G.17</b>	BICT 2015, 8th International Conference on Bio-inspired Information and Communications Technologies
<b>G.18</b>	IEEE Cloudcom 2011, 3 <sup>rd</sup> IEEE International Conference and Workshops on Cloud Computing Technology and Science. Nov. 2011, Athens, Greece.
<b>G.19</b>	EuroPKI-2010, 7 <sup>th</sup> European Workshop on Public Key Services, Applications and Infrastructures.
<b>G.20</b>	CRITIS 2010, 5 <sup>th</sup> International Workshop on Critical Information Infrastructures Security
<b>G.21</b>	ARES 2015, 10 <sup>th</sup> International Conference on Availability, Reliability and Security.

## **III. Scientific Conferences**

<b>G.22</b>	ESORICS, European Symposium on Research in Computer Security
<b>G.23</b>	Vehicular Technology Conference (VTC),
<b>G.24</b>	Networking Conference,
<b>G.25</b>	IEEE Consumer Communications & Networking Conference (ICCC),
<b>G.26</b>	IST Mobile and Wireless Communication Summit,
<b>G.27</b>	European Wireless,
<b>G.28</b>	IEEE International Workshop on Security and Privacy in Wireless and Mobile Computing,
<b>G.29</b>	Networking and Communications (SecPriWiMob),
<b>G.30</b>	International Workshop on Computational P2P Networks: Theory & Practice (CompP2P),
<b>G.31</b>	ACM International Symposium on Mobile Ad Hoc Networking and Computing (Mobihoc),
<b>G.32</b>	IEEE Int'l Conference on Pervasive Computing and Communications (PerCom),
<b>G.33</b>	International Conference on Mobile Lightweight Wireless Systems (MOBILIGHT),
<b>G.34</b>	Annual Computer Security Applications Conference (ACSAC)
<b>G.35</b>	IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)

## **H. INVITED TALKS**

<b>H.1</b>	"ROPInjector: Using Return Oriented Programming for Polymorphism and Antivirus Evasion" "InfoCom Security – InfoCom 2016, Athens, April 2016.
<b>H.2</b>	"Acquisition and Analysis of Android Memory". Invited talk in Cybercrime Network Conference – CyNC 2013, Center for Cybersecurity & Cybercrime Investigation, University College Dublin, Dublin, Ireland, December 2013
<b>H.3</b>	"An improved authentication scheme for B3G heterogeneous mobile networks, 4 <sup>th</sup> annual workshop on PRactical AspeCts of Security (PRACSE), Athens, June 2009.
<b>H.4</b>	"Security Considerations in 4G Mobile Networks", 9 <sup>th</sup> Conference of Greek Information and Communications Technology (ICT) Forum, Organized by Ministry of Economy and Finance, Athens, October 2007.

### **I. Awards and Media coverage**

<b>I.1</b>	Included in the list of most read articles of the Journal, Christos Xenakis, Christoforos Ntantogian, "An advanced persistent threat in 3G networks: Attacking the home network from roaming networks," Computers & Security, Elsevier Science, Vol. 40, Issue 1, pp: 84-94, Feb. 2014.
<b>I.2</b>	Included in the list of most read articles of the Journal, Christoforos Ntantogian, Dimitris Apostolopoulos, Giannis Marinakis, Christos Xenakis, "Evaluating the privacy of Android mobile applications under forensic analysis," Computers & Security, Elsevier Science, Vol. 42, pp: 66-76, May 2014.
<b>I.3</b>	«Retrieving credentials from RAM memory of Android mobile devices», SecNews.gr ( <a href="http://www.secnews.gr/archives/79180">http://www.secnews.gr/archives/79180</a> ), 25 May 2014. (Greek)
<b>I.4</b>	«The majority of e-banking applications are vulnerable to credentials discovery», SecNews.gr ( <a href="http://www.secnews.gr/archives/77818">http://www.secnews.gr/archives/77818</a> ), 16 April 2014. (Greek)
<b>I.5</b>	Bruce Schneier, "DDoSing a Cell Phone Network," Schneier on Security, ( <a href="https://www.schneier.com/blog/archives/2014/02/ddosing_a_cell.html">https://www.schneier.com/blog/archives/2014/02/ddosing_a_cell.html</a> ), February 26, 2014.
<b>I.6</b>	Jesse Emspak, "How Hackers Could Crash a Cellular Network," Tom's Guide ( <a href="http://www.tomsguide.com">www.tomsguide.com</a> ), February 18, 2014. The attack was named as "xenakis and Ntantogian attack"
<b>I.7</b>	«ADSL routers of Greek ISP are vulnerable according to a research from University of Piraeus», SecNews.gr ( <a href="http://www.secnews.gr/archives/7350530">http://www.secnews.gr/archives/7350530</a> ), 30 January 2014. (Greek)

### **J. BOARD MEMBER**

<b>J.1</b>	<b>External Advisory board</b> member of the H2020 project "DELTA - Future tamper-proof Demand rEsponse framework through seLf-configured, self-opTimized and collAborative virtual distributed energy nodes", Grant agreement ID: 773960
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### **K. TECHNICAL SKILLS**

<b>K.1</b>	Excellent knowledge of English language: Certificate of Proficiency in English-University of Michigan.
<b>K.2</b>	Programming languages: Java EE, C/C++, Python, SQL, JSP, Javascript, HTML/CSS.

<b>K.3</b>	Vulnerability assessment and Penetration Testing. Security auditing of iPhone και Android mobile applications.
<b>K.4</b>	Reverse Engineering using IDA Pro. Malware analysis.
<b>K.5</b>	Source code auditing

## **L. OPEN SOURCE SOFTWARE DEVELOPMENT**

<b>L.1</b>	<b>ROPinjector:</b> This C software tool backdoors an executable with a shellcode which is transformed to a semantically equivalent ROP code.
<b>L.2</b>	<b>U-SIMonitor:</b> The U-SIMonitor is a JAVA application for Android that performs AT-commands to the baseband modem of mobile phones. It can obtain the security credentials and sensitive information of the cellular technology, such as permanent and temporary identities, encryption keys, location of users, etc. U-SIMonitor does not disrupt the normal operation of the phone while it is running. ( <a href="https://github.com/dadoyan/U-SIMonitor">https://github.com/dadoyan/U-SIMonitor</a> )
<b>L.3</b>	<b>Jaidam:</b> Jaidam is an open source penetration testing tool written in PYTHON that would take as input a list of domain names, scan them, determine if wordpress or joomla platform was used and finally check them automatically for web vulnerabilities using two well-known open source tools, WPScan and Joomscan. ( <a href="https://github.com/dadoyan/Jaidam">https://github.com/dadoyan/Jaidam</a> )
<b>L.4</b>	<b>ZTEexploit:</b> A python code that exploits the 0-day that I have discovered in the web management interface of the ADSL router ZTE ZXV10 H108L ( <a href="https://github.com/dadoyan/ZTEexploit">https://github.com/dadoyan/ZTEexploit</a> )
<b>L.5</b>	<b>Commix:</b> An application written in PYTHON for detecting and exploiting Command Injection vulnerabilities in an automated manner.
<b>L.6</b>	<b>Auto-Heartbleed:</b> A tool for automatic exploitation of Heartbleed vulnerability using METASPLOIT for automatic discovery of private keys, cookies and authentication credentials.
<b>L.7</b>	<b>Email-Scraper:</b> A tool written in PYTHON for email and domain gathering from websites, social networks, forums, etc. to perform Social Engineering.