

Dr. George K. Kostopoulos



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My Proposed Contributions :

The enhancement of the current professional environment with an extensive American/International diverse academic and industrial experience with emphasis in high technology and Cybersecurity. The recent university area of instruction and research has been in Cybersecurity. Instruction includes Policy, Ethics, Laws, Encryption, and Audits, while research has been in the area of wireless network security and DDoS countermeasures. Extensive familiarity with U.S. cyber laws on data security, compliance, privacy and policy.

Book authorship includes *Cyberspace* and *Cybersecurity* (2012), also published in Chinese (2014), and *Digital Engineering* (1974).

GRADUATE FACULTY POSITIONS – CYBERSWURITY PROGRAMS:

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| University of Virginia Information Security Management | Graduate Program Spring 2015 |
| University of the Aegean (Committee Member) <i>Cybersecurity Issues and Solutions in International Maritime</i> | Doctoral Program in Computer Science 2014 - Present |
| University of Maryland University College Cyber: Technology, Security, Policy, Ethics, Laws, Encryption. Faculty Mentor. | Graduate Programs 2009 – Present |
| Florida Institute of Technology Security in the Enterprise, Host Based Security, Secure Networks and Communication | Masters Degree in Cybersecurity 2013 – 2014 |
| Northcentral University – Online Cyber Contingency Planning, Network Auditing, Research Projects | Doctoral Programs in Information Systems 2012– 2013 |

SELECTED CYBERSECURITY PUBLICATIONS AND PRESENTATIONS

“Cybersecurity: Expanding the Front Lines of Defense” *Keynote Address* Cyber Security China Summit 2011. March 24-25, 2011, Shanghai, China.

“Denial of Service Countermeasures: Intelligence Development and Analysis at the Network Node Level”, *Journal of Information Assurance and Cybersecurity*, a publication of the International Business Information Management Association, 2010. Co-authored with S. Chandel, D. VanWieren and R.Gu.

“Bluetooth in Mobile Telephony: Privacy and Security Issues” *Communications of the IBIMA* (ISBN: 978-0-9821489-1-4). Journal of the International Business Information Management Association, 2009.

“Cyberterrorism: The Next Arena of Confrontation”, *Communications of the IBIMA* (ISBN:1943-7765). The official Journal of the International Business Information Management Association, 2008

“Wi-Fi Security Precautions”, *International Conference of the Business, Information and Management Academy*, March 17-18, 2007 American University of Sharjah, UAE.

INSTRUCTION OF GRADUATE COURSES IN CYBERSECURITY– (2009 - Present):

Cyberspace and Cybersecurity. A study of the fundamentals of cyberspace and cybersecurity. Topics include cyber architecture, cyber services, protocols, algorithms, hardware components, software components, programming languages, various cybersecurity mechanisms, business continuity planning, security management practices, security architecture, operations security, physical security, cyber terrorism, and national security. **UMUC**

Cybersecurity Policy, Ethics, and the Legal Environment. An overview of laws and ethics related to information assurance. The information security responsibilities of major domestic and international agencies (such as the Federal Bureau of Investigation, National Security Agency, and National Institute of Standards and Technology) are reviewed. Topics include issues involving information security management within an enterprise, such as suitable organizational policy, plans, and implementation strategies. Discussion also covers ethical issues, such as monitoring employee computer use and proper limitations on the use of customer data. **UMUC**

Cryptology and Data Protection. An overview of the theory of encryption using symmetric and asymmetric keys, current protocols for exchanging secure data (including the Data Encryption Standard and the Advanced Encryption Standard), and secure communication techniques. A review of the historical development of cryptographic methods and cryptanalysis tools is provided. Public Key Infrastructure and the use of digital signatures and certificates for protecting and validating data are examined. Strategies for the physical protection of information assets are explored. **UMUC**

Faculty Mentor. Supervised new cybersecurity faculty during their probation period, providing guidance on online pedagogy. **UMUC.**

Security in the Enterprise. Examines security from the system user's point of view. Provides an overview of computer application development (programming languages, compilers, development, distribution, and software engineering). Also includes operating systems, databases, virtualization and Web applications. **FIT.**

Host Based Security. Examines topics relevant to managing security in an enterprise environment. Focuses on legal obligations and relevant legislation. Includes forensic investigation of security incidents, monitoring and surveillance, metrics and attack models. **FIT.**

Secure Networks and Communication. Examines security in networked environments and digital communications. Includes the Open Systems Interconnection (OSI) model, communications protocols, wired and wireless communications, Internet security, addressing and routing, and digital certificates. Also presents best practices, methods and tools. **FIT**

Foundations of Computer Network Auditing. This Doctoral level course will enables learners to analyze the foundations of Information Technology (IT) auditing and control. Learners will evaluate the role of IT governance and how it may apply to new and existing systems. This course will help learners understand system life cycle risks, analyze auditing of global IT operations, and assess the legal environment and how organizations conduct due care and follow best practices when auditing IT systems. **NCU.**

Contingency Planning and Disaster Recovery for the Security Professional. The course provides a thorough strategy to guide students with the background knowledge and skills they need to develop effective disaster prevention and recovery plans and processes in a professional setting. Students will be able to demonstrate the basic principles of disaster recovery, data recovery, contingency planning, and maintenance planning. **NCU.**

Computer Information and Security Research Project. This course requires the student to complete a set of progressive exercises regarding Computer Information Security that incorporates analysis, synthesis, and evaluation of business research methods. The student will complete a signature exercise to demonstrate the ability to synthesize theoretical and conceptual knowledge, professional application, ethical implications, and fundamental areas of research methods and critiques in Computer Information Security. **NCU.**

| ACADEMIC POSITIONS: | |
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| University of the Aegean (Committee Member) Doctoral Program in Computer Science 2014 - Present | University of Virginia Graduate Program Information Security Management Spring 2015 |
| University of Maryland University College <i>Online</i> Masters Programs in Cybersecurity September 2009– Present | Florida Institute of Technology - <i>Online</i> Masters Programs in Cybersecurity August 2013 – May 2014 |
| New York Institute of Technology, Professor of Electrical and Computer Engineering Nanjing, China September 2009 – August 2011 | Northcentral University – <i>Online</i> Doctoral Programs in Information Systems October 2012– February 2013 |
| The American University of Kuwait Professor of Computer Science August 2005 – August 2007 | Kuwait Maastricht Business School Adjunct Faculty & MBA Theses Advisor December 2005 – March 2007 |
| The American University of Sharjah, UAE Professor of Management Information Systems August 2001 - August 2005 | |
| Texas A&M International University Professor of Management Information Systems August 1995 - August 2001 | El Instituto Tamaulipeco de Investigacion Educativa y Desarrollo de la Docencia Visiting Professor Fall 1997 |
| National University of Ioannina, Greece Visiting Scientist - Computer Science April 1994 - August 1995 | The American University of Athens, Greece Adjunct Professor of Economics Summer 1995 University of LaVerne, Athens, Greece Adjunct Professor of MIS – MBA March – August 1994 |
| Boston University European Program Associate Professor of MIS & MBA Sept 1991 - Aug 1993 | University of Heidelberg, Germany Visiting Professor - Computer Linguistics Fall 1992 |
| Florida Atlantic University, Boca Raton Professor of Electrical Computer Engineering September 1984 – May 1990 | Florida Institute of Technology, Melbourne Professor of Electrical Computer Engineering March 1982 – March 1985 |
| Institut National d' Electricite et d' Electronique Boumerdes, Algeria Professor and Founding Chairman Department of Computer Engineering September 1978 - March 1982 | University of Petroleum and Minerals Dhahran, Saudi Arabia Associate Professor of Electrical Engineering September 1977 - August 1978 |
| California State Polytechnic University Associate Professor of Electrical Engineering March 1975 - August 1977 | ATOM College of Engineering, Greece Academic Consultant – Engineering September 1976 - August 1978 |

RESEARCH INTERESTS:

Current research interests are in Cybersecurity, including Cryptography, Incident Detection Systems, Cyber Privacy, Ethics and Legal aspects, as well as in Cybersecurity curricula. Also serves as Editor-in-Chief for the Journal of Information Assurance & Cybersecurity of the International Business, Information and Management Association. Author of numerous papers appearing in refereed journals and conference proceedings, and of three books in computer engineering, international economics and cybersecurity.



BOOK REVIEW

by
Nicholas Andersen

Senior Information Assurance Officer
Cyber Security Forum Initiative, **csfi.us**

*Dr. Kostopoulos' book **Cyberspace and Cybersecurity** was a wonderful read on Cybersecurity and it should be on the bookshelf of EVERY current or aspiring security professional. There is such a vast amount of information available in the text, everything from wireless security and secure information systems to the soft science considerations of creating a culture of security. Material that is not typically included in other cybersecurity texts, such as the guidelines for development as a CIO, was included and was very insightful. The material is presented in a very easily understood manner, and is appropriate even for a non-technical reader.*

The author has done a wonderful job of breaking down technical concepts that could lead to organizational vulnerabilities and explains them in an easy to understand manner. I found it helpful that there were exercises included to reinforce knowledge. This is a book that could not have been published at a more critical time. I will certainly be keeping this book right beside my desk for future use and will be recommending it to everyone in my professional circle.

PROFESSIONAL REFERENCES

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| <p>Dr. Amjad Ali Director, Center for Security Studies University of Maryland Univ College 3501 University Blvd. East Adelphi, MD 20783 Tel: 240-684-2432 amjad.ali@faculty.umuc.edu</p> | <p>Prof. Riley Repko Senior Research Fellow, Cybersecurity Virginia Tech 900 N. Glebe Road Arlington, VA 22203 Tel: 571-858-3352 repko@vt.edu</p> |
| <p>Dr. Balakrishnan Dasarathy Director, Information Assurance University of Maryland Univ College 3501 University Blvd. East Adelphi, MD 20783 Tel: 240-684-2438 dasarathy.balakrishnan@faculty.umuc.edu</p> | <p>Jarin R. Eisenberg Program Coordinator – Online Learning Florida Institute of Technology 150 W. University Blvd. Melbourne, FL 32901 Tel: 321-674-8222 jeisenberg@fit.edu</p> |

PERSONAL:

Marital Status: Married with three children Citizenship: American
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